



**PROJECT FOR
INTEGRATED SOLID WASTE MANAGEMENT MASTER PLAN IN GUJRANWALA**

WASTE PICKER SURVEY

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LIST OF ABBREVIATIONS

JICA : Japanese International Corporate Agency

GC : Gujranwala City

GDS : Gondlanwala Disposal Site

GWMC : Gujranwala Waste Management Company

1. INTRODUCTION

Keeping all the consequences of current solid waste menace, Govt. of the Punjab with the assistance of Japanese International Cooperation Agency (JICA) initiated a project related to municipal solid waste management in Gujranwala city. The project would lead to development of “Integrated Solid Waste Management System” for the city. The project includes a good number of field surveys and studies. Waste Picker survey is one of the field surveys within the framework of the project carried out by the JICA Project Team. Recycling of municipal solid waste in Pakistan relies largely on the informal recovery of resource materials by waste pickers, junk shops and the dealers, and they render valuable services to the society by recovering unusable waste for productive resources. Nevertheless, little is known about the activities of waste pickers. One of the reasons is that waste traders are understandably very cautious in keeping their business confidential. Another reason is the difficulty in earning the trust of waste pickers and waste dealers. There is an air of secrecy around waste pickers, perhaps bolstered by feelings of inferiority. All quantitative data on waste management in cities of Pakistan has, until recently, been both scarce and unreliable, perhaps even more, so far, for data on recycling rates. The waste picker survey is focused on gathering information from the waste pickers in Gujranwala city and the existing disposal site with regard to their activities.

Gujranwala is an industrial and agricultural city located in the North-East of Punjab Province, Pakistan. More specifically, Gujranwala is located at 32.16° North and 74.18° East, and is 226 meters (744 feet) above sea level. Punjabi is the main language of the inhabitants. Climate of Gujranwala is hot during summer as temperature reaches above 40°C and cold in winter as temperature drops to below 10° C. Gujranwala is surrounded by Gujrat and Sialkot in the north and northeast, by Sheikhpura in the south and southeast, and by Mandi Bahauddin and Hafizabad in the west.

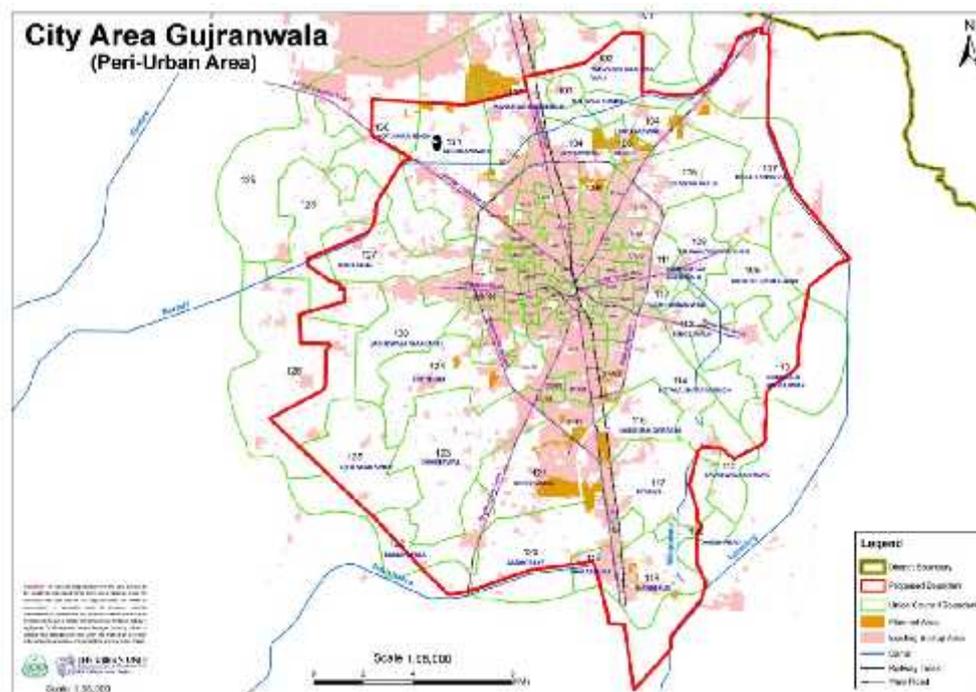


Figure 1: Map of Gujranwala

2. OUTLINE AND PURPOSE OF SURVEY

2.1 Purpose of the Survey

Key objective of the survey is:

- 1) To collect and analyse the current activities of the waste pickers in the Gujranwala city.
- 2) To collect and analyse the current activities of the waste pickers at the Gondlanwala disposal site.

2.2 Outline of the Survey

Interview survey was carried out for the waste pickers working in Gondalawala site for 20 persons for the age more than 15 years old. In addition, the interview survey for the waste picker working in town was also conducted for the activity areas of high income group area, middle income group area and low income group area for 20 waste pickers. The questionnaire was prepared based on the contents in the Inception report with some minor adjustment of the actual conditions. The survey was carried out in December 2014.

3. SURVEY METHOD

3.1 Survey Team Configuration

Waste Manager, Research Assistant and Survey Assistant were part of the survey team. The details of the deployed staff are as shown in Table 1.

Table 1: Details of Deployed Staff

Sr. No.	Name	Designation
1	Hina Aslam	Waste Manager
2	Arkham Wahid	Research Assistant
3	Tanweer Ahmad	Survey Assistant

3.2 Survey Period

The field survey was carried out in the first week of December 2014 as shown in Figure 2.

Survey Work Time Schedule									
Year		December							
Month		December							
Day		1	2	3	4	5	6	7	8
Day of the Week		M	T	W	T	F	S	S	M
Waste Picker Survey : (1 time)									
Person in charge: Hori, Takasugi (Support)									
Survey									
Waste Manager or Researcher (Hina A., Arkham)		1	1	1	1				
Employee		1	1	1	1				
Data Analysis									
Waste Manager or Researcher (Hina A.)						1		1	
Employee									
Total									
Waste Manager or Researcher		0	1	1	1	1	1	0	1
Employee		0	1	1	1	1	0	0	0

Figure 2: Survey Work Time Schedule

3.3 Survey Method

In the social context of Pakistan, we believe it is better to have a one-to-one contact with the respondent as it is the most personal form of survey, so the questionnaire method (face-to-face interview) was adopted for this survey. The questionnaire was designed keeping in view that nothing is assumed by the interviewer rather many options are given to the respondent so that accurate information could be obtained. Definitely, each question should be clear and precise so that doubts or beliefs of the interviewer or the respondent do not creep in.

The questionnaire was finalized in consultation with the JICA Project Team. The questionnaire included the following types of queries: general information about the waste pickers, waste picking activity area, how long they are engaged in such activities. These questions included their comprehension on the kinds of recyclables they segregate, from where they collect the recyclable, to whom they sell and at what price do they sell. Furthermore, their willingness to continue working as waste picker was also assessed.

Furthermore, the questionnaire also included selective questions regarding the findings of waste pickers about changes in recyclable waste and amount of recyclables. Some of the questions were asked about their concerns regarding their work.

Survey sites for the waste pickers in town were identified through detailed discussion with the JICA Project Team. Finally, the survey areas were decided at the same area of WACS areas of high income group area, low income group area and low income group area for 20 waste pickers working in town.

Also, the Gondlanwala disposal site was selected to conduct the survey for 20 dump site waste pickers working in the disposal site.

3.3.1 Sample Groups

A. Gujranwala Town Areas

Five (5) samples were selected from high income group area, 10 from middle income group area and five (5) from low income group area.

B. Gondlanwala Disposal Site

Twenty (20) samples were selected from Gondlanwala dumping site area for the age more than 15 years.

Table 2 below shows the area-wise (location) survey area on the basis of Union Councils. Figure 3 and Figure 4 also show the location of the interview survey.

Table 2: Area wise Location

Sr. No.	Income Level	Town	UC Name	UC No.
1	High	Aroop Town	Model Town	40/4
		Nandipur	Satellite Town	52/16
2	Middle	Qila Dedar Singh Town	Data Ganj Baksh	76/40
		Khiali Shahpur	Asghar Colony	64/28
			Rana Colony	65/29
		Aroop Town	Gobindh garh	93/57
		Nandipur Town	Wahdat Colony	57/21
			Nasir Colony	61/25
3	Low	Qila Dedar Singh Town	Mubarak Colony	82/46
		Khiali Shahpur Town	Their Sansi	67/31
		Aroop Town	Bagh Wala	98/62
		Nandipur Town	Camp No. 3, Kashmir Town	37/1

Areas surveyed are colour coded in the following map.

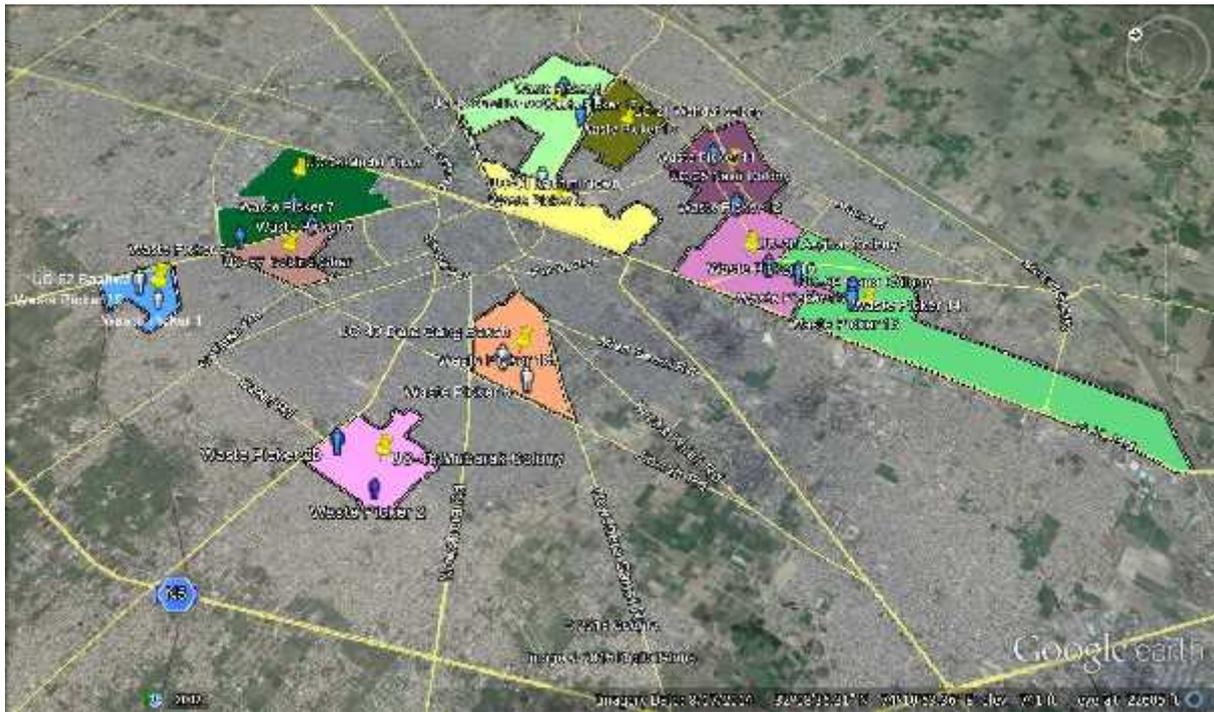


Figure 3: Gujranwala City Survey Area

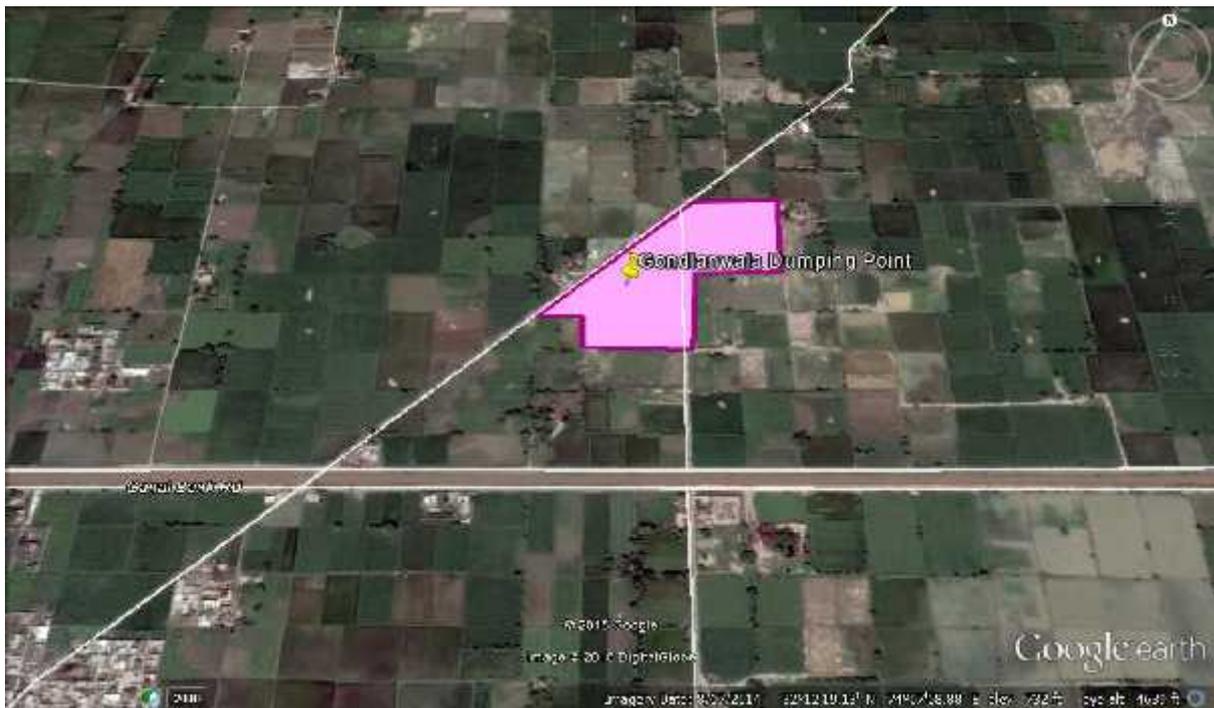


Figure 4: Gondlanwala Disposal Site

4. DATA PROCESSING AND RESULT OF SURVEY

As the survey was carried out separately into two groups are presented accordingly in the following sections.

4.1 Gujranwala Town Areas

The main findings of the analysis are discussed below:

4.1.1 GENERAL INFORMATION

4.1.1.1 Age of Waste Pickers

Table 2 shows that 40% of the waste pickers belong to the age group of 15-20, while 35% belong to 21-25 age group and 25 % belong to the age group more than 25 years old. It is clear that the majority of the waste pickers, 75%, are below 25 years old.

Table 2: Age of Waste pickers

Sr. No.	Age Group	Number	Percent
1	15-20	8	40
2	21-25	7	35
3	>25	5	25

4.1.1.2 Sex of Waste Pickers

From Figure 5, all the waste pickers interviewed in Gujranwala city are male. It means that waste picking activity in town is carried out mostly by male.

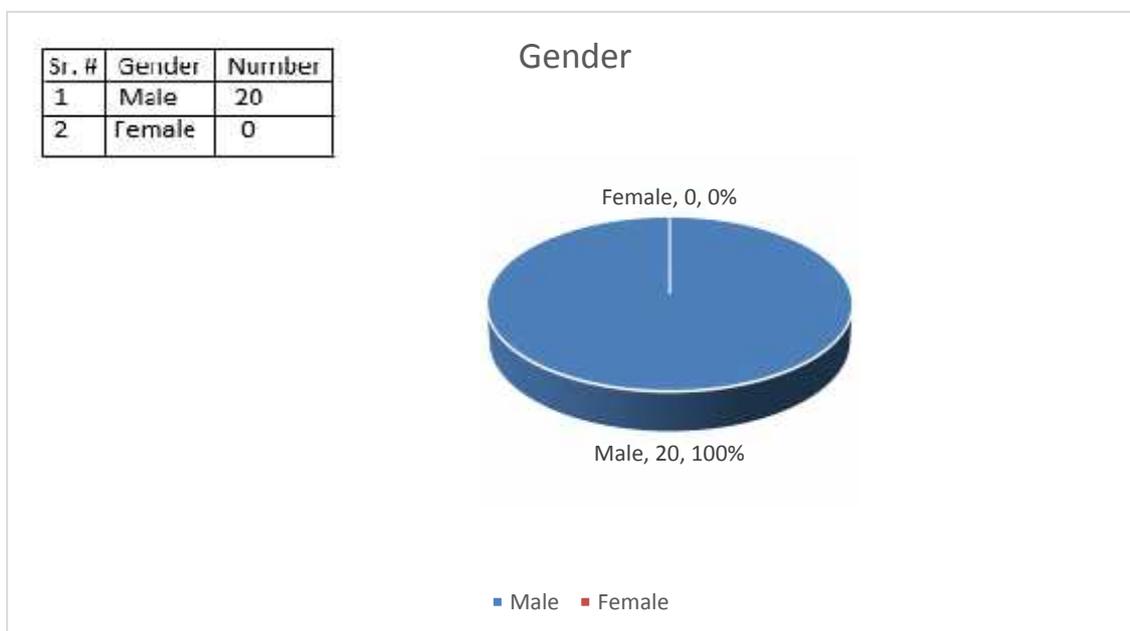


Figure 5: Gender of Waste Pickers

4.1.1.3 Residence of the waste pickers

Only one of the waste pickers preferred not to share his address of residence which may be considered negligible in relation to the number of remaining waste pickers. Almost 90% of the waste pickers reside within the Gujranwala city and 5% reside in outskirts of the city boundary.

4.1.1.4 Distance from residence to workplace (km)

Almost 70 % of the waste pickers live within 10 km range from their workplace while 30% were unwilling to share this information.

4.1.1.5 No. of dependent family members

Table 3 shows the number of dependent people for the waste pickers in Gujranwala city. Twenty five percent (25%) of the waste pickers have 1-5 dependents, 35% have 6-10 dependent people 15% have 11-15 dependent people and 5% have above 15 dependent family members while 20% of the waste pickers were unwilling to share this information.

Table 3: Number of Dependent Family

Sr. No.	No. of Dependent Group	Number	Percentage
1	1- 5	5	25
2	6-10	7	35
3	11-15	3	15
4	> 15	1	5
5	No information provided	4	20

4.1.1.6-8 Type of Job (main, sub, former)

Table 4 shows that almost all the waste pickers have been engaged in waste picking activity as their main job from the start for obtaining their earning. Only two waste pickers used to work as an employee in factory and another one waste picker used to work in mobil oil business. Their opinion is that they preferred waste picking because of good earning compared to their previous jobs and less hard work.

Table 4 : Type of Job

Sr. No.	Type of Job	Number	Percentage
1	Main	20	100
2	Sub	3	25
3	Former	11	55

4.1.2 ACTIVITY PROFILES

4.1.2.1 Where is your main Area of Activity?

Main area of activity of the waste pickers is town area in Gujranwala city.

4.1.2.2 How many days you work per week?

Sixty percent (60%) of the waste pickers work for 7days per week, 20% of them work for 6 days a week while 20% of the waste pickers work 5 days a week as shown in Table 5.

Table 5: Work Days per Week

Sr. No.	Working days/week	Number	Percentage
1	7	12	60
2	6	4	20
3	5	4	20

4.1.2.3 How many hours do you work per day?

Table 6 below show the working hours per day of the waste pickers. 20% of the waste pickers work for 2-4 hours per day, 45% of the waste pickers work for 5-7 hours per day while 35% of the waste pickers work for 8-10 hours per day.

Table 6: Work Hour per Day

Sr. No.	Working Hours/day	Number	Percentage
1	2-4	4	20
2	5-7	9	45
3	8-10	7	35

4.1.2.4 With whom do you work?

Among the interviewed persons, 11 waste pickers are working alone while 9 are working with family member or friends as shown in Table 7.

Table 7: With Whom Working

Sr. No.	Working with	Number	Percentage
1	Family	8	40
2	Friends	1	5
3	Nobody	11	55

4.1.2.5 How long have you engaged in?

Table 8 shows that 45% of the waste pickers engage in this work for 6-15 years while 55% engage in waste picking activity less than 5 years.

Table 8: Years engaged in waste picking activity

Sr. No.	Years	Number	Percentage
1	0-10	15	75
2	10-20	5	25
3	No information provided	0	0

4.1.2.6 How many people engaged in waste picking in your working area?

Out of 20 waste pickers, 12 have no idea for how many waste pickers are engaged in such activities as their area of working is not fixed and they move around the town. The waste pickers working on the containers have regular area of waste picking so 8 waste pickers shared their rough idea about the number of waste pickers in their area ranging from 2 to 12 people.

4.1.2.7 What is the mode of transporting the recyclable materials to the dealer?

Table 9 and Figure 6 show that 40 % of the waste pickers don't use any mean of transportation of recovered recyclables. They move from one place to other on foot. Only 2 waste pickers can bear the cost of petrol so they use motorbike as transportation mean. Fifteen percent (15 %) or 3 waste pickers use donkey carts and 35 % use bicycle to transport the recyclables to dealers.

Table 9: Transportation mode of Recyclables

Sr. No.	Mean of Transportation	Number	Percentage
1	Bicycle	7	35
2	Motorbike	2	10
3	On foot	8	40
4	Donkey cart	3	15

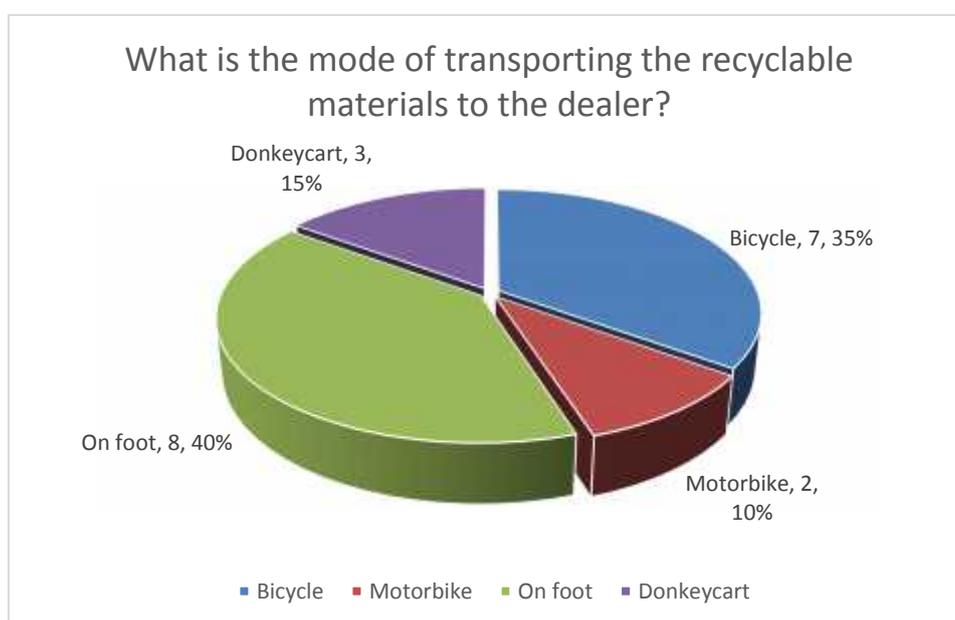


Figure 6: Transportation mode for Recyclables

4.1.3 RECYCLABLES

4.1.3.1 From where do you collect the recyclables? (Container, street, household, etc.)

Table 10 and figure 7 explain that 59 % waste pickers move in the city to collect recyclables from the streets and households of high, middle and low income group areas. Forty one percent (41 %) or seven (7) of the waste pickers have regular collection point's i.e. waste containers.

Table 10: Collection Points

Sr. No.	Collection Points	Number	Percentage
1	Container	7	41
2	Household	2	12
3	Street	8	47

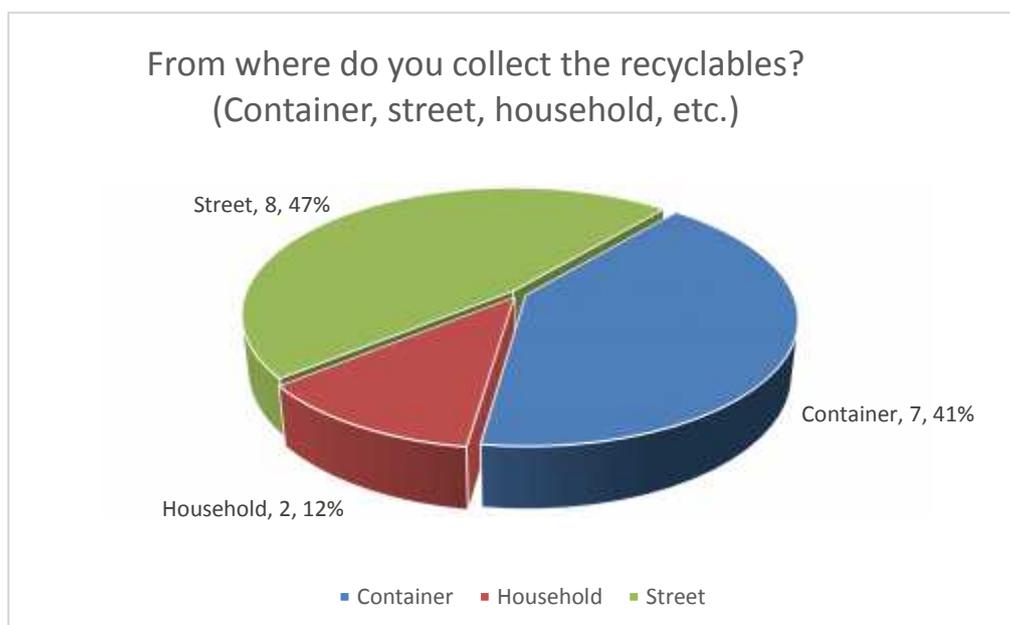


Figure 7: Collection Points

4.1.3.2 Where do you sell the recyclables?

Table 11 shows that 80 % of the waste pickers sell the recyclables in the city premises as their working area activity is in the high, middle and low income group areas of the city. After collecting the recyclables they sell to the nearest dealers or junk shops. Twenty percent (20 %) or four (4) of the waste pickers do not have regular place for selling the recyclables and they may sell in the city or to the dealers outside the city.

Table 11: Selling Place

Sr. No.	Place	Number	Percentage
1	In city	16	80
2	Outside City	0	0
3	Not fixed	4	20

4.1.3.3 To whom do you sell the recyclables?

Table 12 shows that 60 % of the waste pickers sell the recyclables to junk shops and 40 % to the dealers depending on the amount of recyclables collected.

Table 12: Type of Selling Shop

Sr. No.	Type of shop	Number	Percentage
1	Dealer	8	40
2	Junk shop	12	60
3	Not fixed	0	0

4.1.3.4 How often do you sell the recyclables?

Out of 20, only 4 waste pickers sell the recyclables on monthly basis and the rest of them sell on daily basis. The waste pickers store the recyclables for a week or a month before selling the recyclables. After storing the recyclables they contact the dealers to collect the recyclables from their stock place. The waste pickers who sell the recyclables on daily basis go to the junkshops and sell the recyclables on their way back to home.

4.1.3.5 Recovery Amount and Selling Price

Table 13 shows the total amount of recyclables for all the types collected by the waste pickers along with their selling prices. Average recovery amount is estimated at 82 kg/day and average selling price per waste picker is estimated as 1,084 Rs./day.

Table 13: Average Recovery Amount and Selling Price per Waste Picker

Sr. No.	Waste Picker	Quantity (kg/day)	Selling Price (Rs./day)
1	WP-1	44	1,025
2	WP-2	61	731
3	WP-3	105	1,355
4	WP-4	66	653
5	WP-5	15	750
6	WP-6	260	1,540
7	WP-7	70	690
8	WP-8	59	650
9	WP-9	75	620
10	WP-10	65	510
11	WP-11	26	404
12	WP-12	70	510
13	WP-13	85	975
14	WP-14	222	3,050
15	WP-15	42	550
16	WP-16	40	920
17	WP-17	40	1,525
18	WP-18	20	1,100
19	WP-19	95	1,240
20	WP-20	170	2,890
Average		81.6	1,084

4.1.3.6 How much do you earn per month from selling the recyclables?

Table 14 shows the monthly income of 20 waste pickers, the income level ranges from the lowest at 11,000 Rs to 75,000 Rs. An average income of waste picker is computed at 30,000 Rs. per person per month.

Table 14: Income per month

Sr. No.	Waste Picker	Income/month (Rs.)
1	WP-1	30,000
2	WP-2	25,000
3	WP-3	35,000
4	WP-4	20,000
5	WP-5	30,000
6	WP-6	50,000
7	WP-7	25,000
8	WP-8	20,000
9	WP-9	18,000

10	WP-10	15,000
11	WP-11	11,000
12	WP-12	15,000
13	WP-13	26,000
14	WP-14	61,000
15	WP-15	15,000
16	WP-16	15,000
17	WP-17	40,000
18	WP-18	30,000
19	WP-19	35,000
20	WP-20	75,000
Average income		29,550

4.1.4 FINDINGS

4.1.4.1 Do you find any changes in recyclable waste type in the last 5 years?

Table 15 and Figure 8 show that only 20 % waste pickers found changes in the type of recyclables. Forty five percent (45 %) have no idea because they aren't involve in waste picking activities for many years. Thirty five percent (35 %) of waste pickers found no change in recyclable waste type.

Table 15: Changes in Recyclable type

Sr. No.	Changes found	Number	Percentage
1	Yes	4	20
2	No	7	35
3	Don't know	9	45

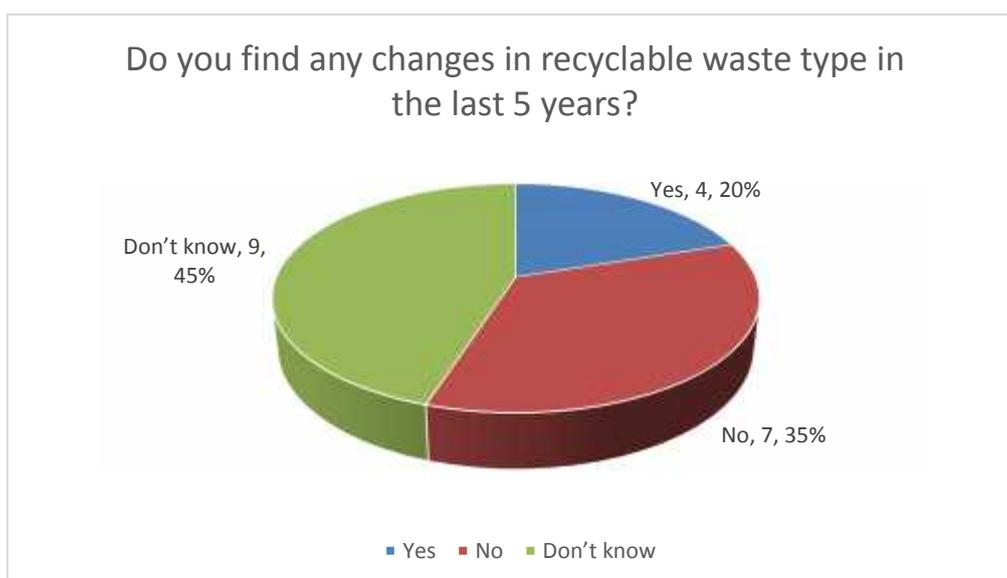


Figure 8: Changes in Recyclables Type

4.1.4.2 Do you find any changes in recyclable amounts in the last 5 years?

Table 16 and Figure 9 shows that 30% waste pickers found changes in the recyclable amount. According to them, the amount of recyclables is less now as most of the recyclables are segregated at household level so less recyclables are found in streets and container points. Forty five percent (45 %) waste pickers found no change in the amount of recyclables.

Table 16: Changes in Recyclables Amount

Sr. No.	Changes found	Number	Percentage
1	Yes	6	30
2	No	9	45
3	Don't know	5	25

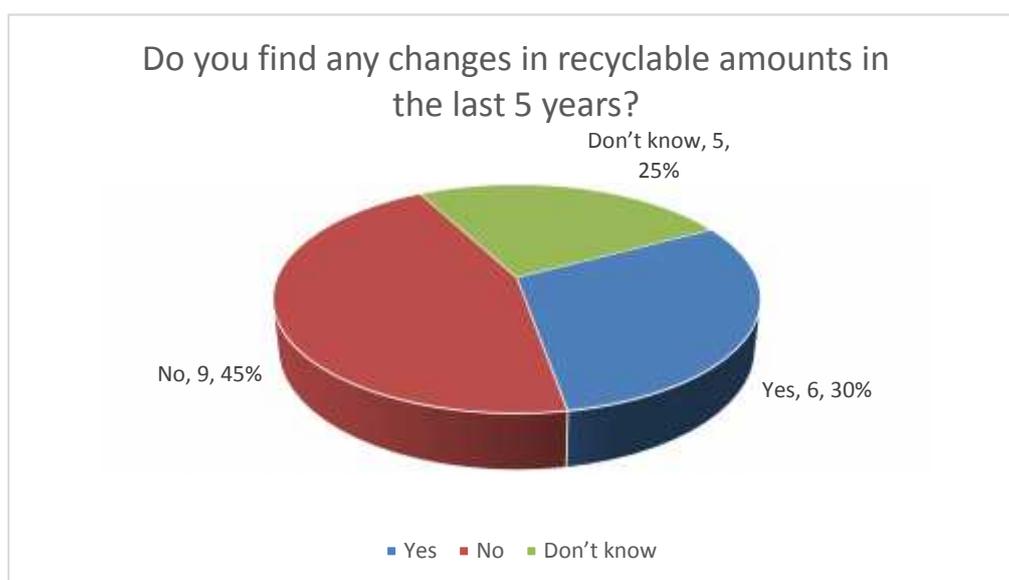


Figure 9: Change in Recyclables Amount

4.1.4.3 What kind of dangerous wastes you have ever seen?

Among 20 Waste pickers, 5 Waste Pickers found dangerous waste i.e., Medical waste from clinics and hospitals.

4.1.4.4 Have you ever got injured?

Among 20 Waste pickers, 8 Waste Pickers got injured due to broken glasses and sometimes from the sharps and syringes.

4.1.5 CONCERNS/PROBLEMS

4.1.5.1 Are there any concerns/problems in your work?

Almost all the waste pickers had no problems and concerns regarding waste picking activities.

4.1.6 FUTURE PROSPECTIVES

4.1.6.1 Will you continue to work as Waste Picker?

Table 17 and Figure 10 show that 90 % waste pickers want to continue working as waste pickers as this work is easy to do for them and as most of the waste pickers are refugees from Afghanistan. It isn't easy for them to work anywhere else. It is a good source of income for the waste pickers.

Table 17: Future Plans as Waste Picker

Sr. No.	Will Continue	Number	Percentage
1	Yes	18	90
2	No	2	10



Figure 10: Future Plans as Waste Picker

4.1.6.2 Will you continue to work in this area?

From Table 18 and Figure 11, it is clear that 90 % of waste pickers wants to continue work in the same area because their activity area is near their residence and they don't have to travel far to sell the recyclables to dealers or junkshops.

Table 18: Continuity of work in same Area

Sr. No.	Will Continue	Person	Percentage
1	Yes	18	90
2	No	2	10

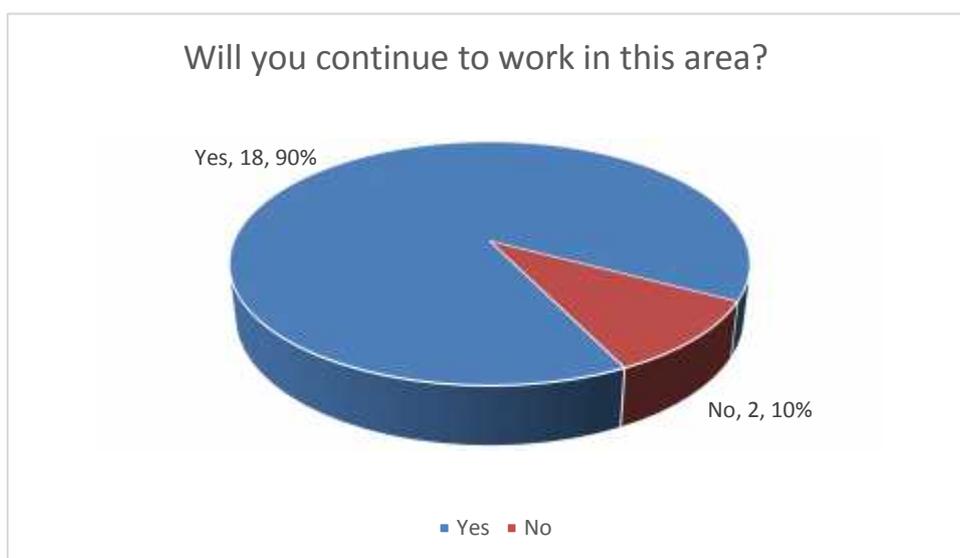


Figure 11: Continuity of work in same Area

4.1.6.3 If you can change your work, what kind of work do you engage in future?

Table 19 shows that 60 % of the waste pickers don't want to change their work. Thirty five percent (35 %) of the waste pickers want to be employee in the factory as they only know the factory work apart from waste picking work. One of the waste pickers knows stitching so he wants to be a tailor.

Table 19: Future Working Area of Interest

Sr. No.	Kind of work	Number	Percentage
1	Employee at factory	7	35
2	Tailor	1	5
2	Nothing	12	60

4.2 Gondlanwala Disposal Site

The main findings of the analysis are discussed below:

4.2.1 GENERAL INFORMATION

4.2.1.1 Age of Waste Pickers

Looking through the age group of waste pickers in Table 20 below, the age group of 15-20 years takes the majority followed by over 25 years for 15%. The age group of 21-25 years is only one (1) or 5 % among 20 interviewees. It is clear from the results that 75% of the waste pickers are below 25 years of age.

Table 20: Age of Waste Pickers

Sr. No.	Age Group	Number	Percent
1	15-20	16	80
2	21-25	1	5
3	>25	3	15

4.2.1.2 Sex of waste pickers

From Table 21 and Figure 12, it is clear that 95% of the waste picker working at Gondalawala dumping site are male. Only one female waste picker is working together with husband. It means that mostly the males are working in waste picking activities

Table 21: Gender of Waste Pickers

Sr. No.	Gender	Number	Percentage
1	Male	19	95
2	Female	1	5

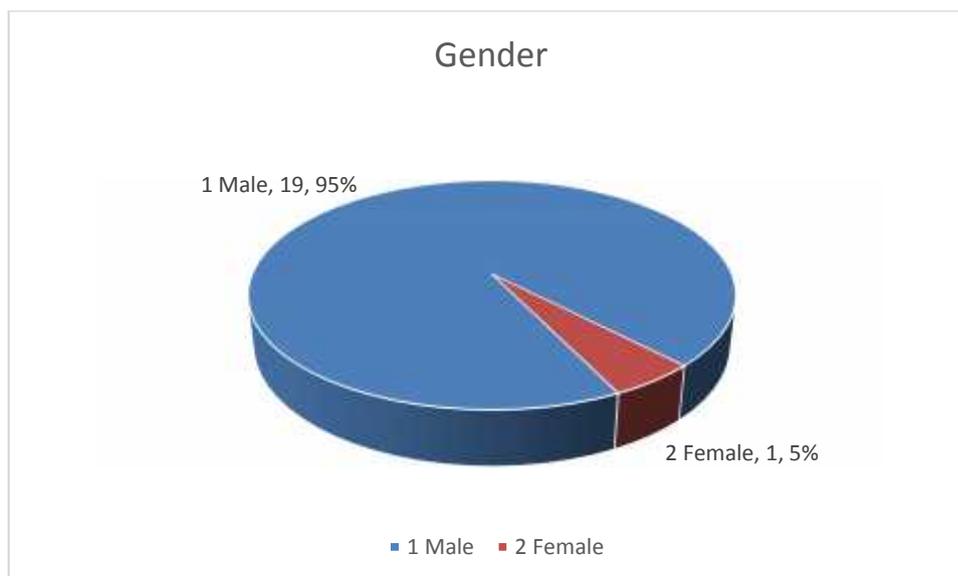


Figure 12: Gender of Waste Pickers

4.2.1.3 Residence of the waste pickers

All the 20 or 100% of the waste pickers reside within Gujranwala city .They travel from their residence to Gondlanwala to recover the recyclables.

4.2.1.4 Distance from residence to workplace (km)

Travelling distance of every waste picker from their residence is within 10 km.

4.2.1.5 No. of dependent family members

Table 22 shows the number of dependent people for waste pickers working at Gondlanwala disposal site. Ten percent (10 %) of the waste pickers have 1-5 dependents, 15% have 6-10 dependent people, most of them, 70% or 14 persons have 11-15 dependent people and 5% or 1 person have more than 15 dependent family members.

Table 22: Number of Dependent Family

Sr. No.	No. of Dependent Group	Number	Percentage
1	1 -5	2	10
2	6 -10	3	15
3	11-15	14	70
4	> 15	1	5

4.2.1.6-8 Type of Job (main, sub, former)

Table 23 shows almost all the waste pickers are engaged in waste picking activity from the beginning. Only five waste pickers used to work as an employee in factory, one waste picker used to work as a roti maker and one waste picker worked as a shoe polisher.

Table 23: Type of Job

Sr. No.	Type of Job	Number	Percentage
1	Main	20	100
2	Sub	0	0
3	Former	4	33

4.2.2 ACTIVITY PROFILES

4.2.2.1 Where is your main Area of Activity?

Main area of activity of waste pickers is Gondlanwala disposal site.

4.2.2.2 How many days you work per week?

From the Table 24, seventy percent (70%) of the waste pickers work for 6 days per week. Meanwhile, 25% of them work for 5 days a week and 5% of the waste pickers work for 4 days a week.

Table 24: Weeks per Day

Sr. No.	Working days/week	Number	Percentage
1	6	14	70
2	5	5	25
3	4	1	5

4.2.2.3 How many hours do you work per day?

Table 25 show that the working hours per day of the waste pickers. Fifteen percent (15%) of the waste pickers work for 2-4 hours per day, 45% of the waste pickers work for 5-7 hours per day while 40% of the waste pickers work for 8-10 hours per day.

Table 25: Hours per Day

Sr. No.	Working Hours/day	Number	Percentage
1	2 - 4	3	15
2	5 - 7	9	45
3	8 - 10	8	40

4.2.2.4 With whom do you work?

Among the interviewed persons, 13 waste pickers are working alone while 7 are working together with family member or friends as shown in table 26 below.

Table 26: Working with Whom

Sr. No.	Working with	Number	Percentage
1	Family	8	40
2	Friends	1	5
3	Nobody	11	55

4.2.2.5 How long have you engaged in?

Table 27 shows that 80% of the waste pickers are engaged in this work from past 10 years while 15% were engaged in waste picking activity for more than 10 years. One waste picker was reluctant to share this information.

Table 27: Years engaged in waste picking activity

Sr. No.	Years	Number	Percentage
1	0-10	16	80
2	11- 20	3	15
3	No information Provided	1	5

4.2.2.6 What is the mode of transporting the recyclable materials to the dealer?

Table 28 and Figure 13 show that only 2 waste pickers can bear the cost of petrol so they use motorbike as transportation mean. Fifty percent (50 %) of the waste picker's use Bicycles, 35% use donkey carts and 5 % use other mean mostly GWMC vehicles to transport the recyclables to dealers.

Table 28: Transportation mode of Recyclables

Sr. No.	Mean of transportation	Number	Percentage
1	Bicycle	10	50
2	Motorbike	2	10
3	Donkey cart	7	35
4	Other	1	5

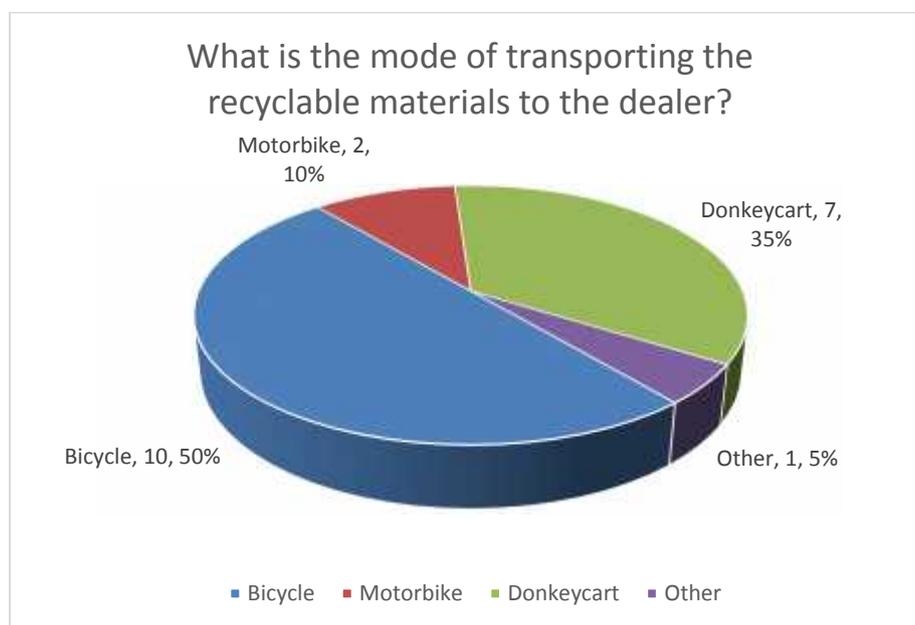


Figure 13: Transportation mode of Recyclables

4.2.3 RECYCLABLES

4.2.3.1 Where do you sell the recyclables?

As shown in Table 29, all 20 person or 100 % of the waste pickers sell the recyclables to the dealers or junk shops in the city as their residence locate within the city premises. After collecting the recyclables they sell on their way back to home.

Table 29: Selling Place

Sr. No.	Place	Number	Percentage
1	In city	20	100
2	Outside City	0	0

4.2.3.2 To whom do you sell the recyclables?

Seventy percent (70 %) of the waste pickers sell the recyclables to the dealers whereas 30 % sell to the junkshops depending on the amount of recyclables collected as shown in Table 30.

Table 30: Type of Selling Shop

Sr. No.	Type of shop	Number	Percentage
1	Dealer	14	70
2	Junk shop	6	30

4.2.3.3 How often do you sell the recyclables?

Out of 20, only 3 waste pickers sell the recyclables on weekly basis rest of them sell on daily basis.

4.2.3.4 Recovery Amount and Selling Price

Table 31 shows the total amount of all types of recyclables collected by the waste pickers along with their selling prices. An average recovery amount is estimated as 55 kg/day and an average selling price per waste picker is estimated as 1,264 Rs. /day.

Table 31: Average Recovery Amount and Selling Price per Waste Picker

Sr. No.	Waste Picker	Quantity (kg/day)	Sold Price (Rs/day)
1	WP-1	61	2,510
2	WP-2	93	1,062
3	WP-3	45	815
4	WP-4	20	1,600
5	WP-5	35	675
6	WP-6	12	1,040
7	WP-7	58	1,120
8	WP-8	57	1,400
9	WP-9	50	1,205
10	WP-10	215	2,775
11	WP-11	70	370
12	WP-12	95	2,780
13	WP-13	41	1,142
14	WP-14	25	1,045
15	WP-15	7	790
16	WP-16	15	1,200

17	WP-17	54	416
18	WP-18	38	1,090
19	WP-19	61	1,377
20	WP-20	45	880
Average		55	1,264

4.2.3.5 How much do you earn per month from selling the recyclables?

Table 32 shows the monthly income of 20 waste pickers. The income level ranges from the lowest at 3,000 Rs to the highest at 70,000 Rs. An average income of waste picker is computed at 30,300 Rs per person per month.

Table 32: Income per month

Sr. No.	Waste Picker	Income /month (Rs.)
1	WP-1	55,000
2	WP-2	30,000
3	WP-3	25,000
4	WP-4	45,000
5	WP-5	20,000
6	WP-6	32,000
7	WP-7	30,000
8	WP-8	37,000
9	WP-9	3,000
10	WP-10	70,000
11	WP-11	15,000
12	WP-12	37,000
13	WP-13	30,000
14	WP-14	27,000
15	WP-15	20,000
16	WP-16	40,000
17	WP-17	15,000
18	WP-18	30,000
19	WP-19	20,000
20	WP-20	25,000
Average income		30,300

4.2.4 FINDING

4.2.4.1 Do you find any changes in recyclable waste type in the last 5 years?

Table 33 and Figure 14 show that 40 % waste pickers found changes in type of recyclables. 60 % found no change in recyclable waste type.

Table 33: Changes in Recyclable type

Sr. No.	Changes found	Person	Percentage
1	Yes	8	40
2	No	12	60

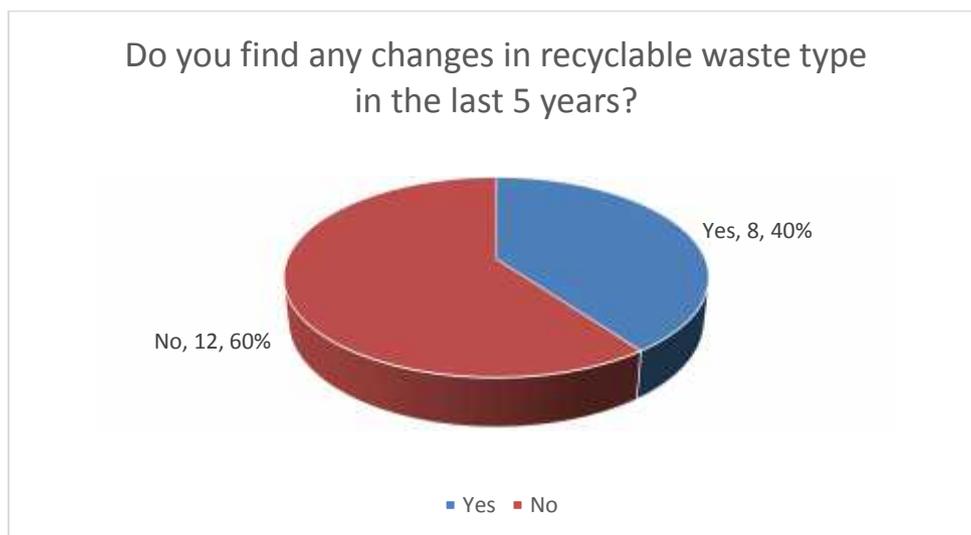


Figure 14: Changes in Recyclable type

4.2.4.2 Do you find any changes in recyclable amounts in the last 5 years?

Table 34 and Figure 15 show that 40% of waste pickers found changes in the recyclable amount. According to them, the amount of recyclables is less now as most of the recyclables are segregated in the city by households and waste pickers so less recyclables are found at the dumping site. Sixty percent (60 %) of the waste pickers found no change in the amount of recyclables.

Table 34: Changes in Recyclable Amount

Sr. No.	Changes found	Person	Percentage
1	Yes	8	40
2	No	12	60

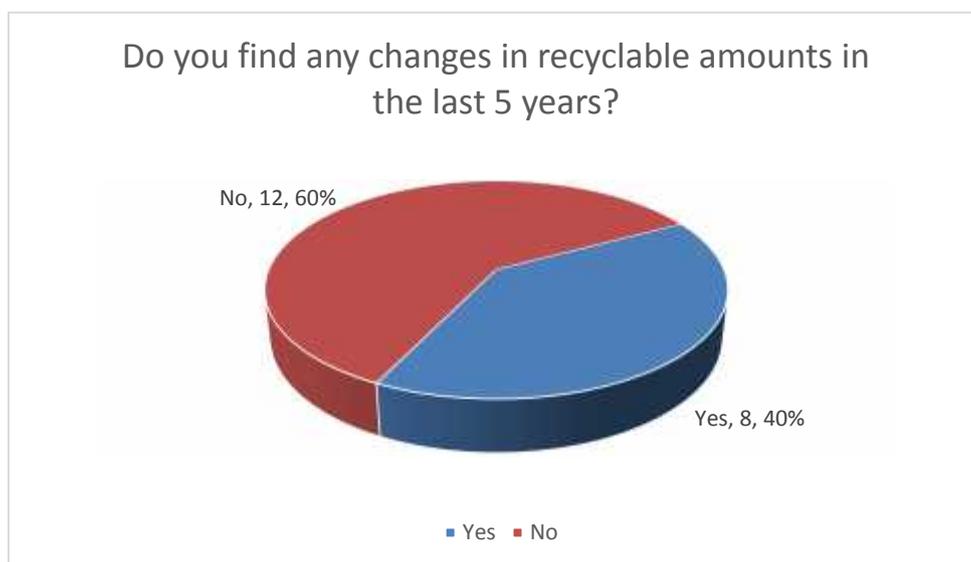


Figure 15: Changes in Recyclable Amount

4.2.4.3 What kind of dangerous wastes you have ever seen?

All waste pickers found dangerous waste i.e., Medical waste from clinics and hospitals.

4.2.4.4 Have you ever got injured?

Among 20 Waste pickers, 19 Waste Pickers got injured due to broken glasses and sometimes from the sharps and syringes.

4.2.5 CONCERNS/PROBLEMS

4.2.5.1 Are there any concerns/problems in your work?

Almost all the waste pickers had no problems and concerns regarding waste picking activities.

4.2.6 FUTURE PROSPECTIVES

4.2.6.1 Will you continue to work as Waste Picker?

Table 35 and Figure 16 show that 65 % of waste pickers want to continue working as waste pickers.35 % don't want to continue working as waste picker.

Table 35: Future Plans as Waste Picker

Sr. No.	Will Continue	Person	Percentage
1	Yes	13	65
2	No	7	35



Figure 16: Future Plans as Waste Picker

4.2.6.2 Will you continue to work in this area?

From Table 36 and Figure 17, it is clear that 65 % of waste pickers wants to continue work in the same area because they earn good from waste picking activity.35 % don't want to continue this work because they consider it dirty work.

Table 36: Continuity of work in same Area

Sr. No.	Will Continue	Person	Percentage
1	Yes	13	65
2	No	7	35

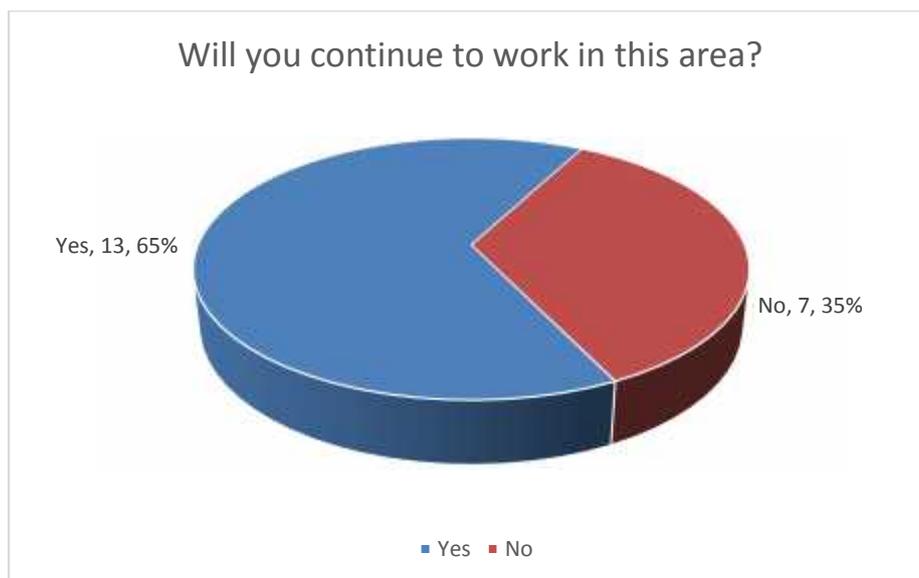


Figure 17: Continuity of work in same Area

4.2.6.3 If you can change your work, what kind of work do you engage in future?

Table 37 shows that 60 % of the waste pickers want to be employee in the factory as they only know the factory work apart from waste picking. One of the waste pickers knows stitching so he wants to be a tailor. Fifteen percent (15 %) wants to do nothing other than waste picking as they aren't literate and don't have any other skill. Five percent (5%) or one waste picker wants to work as metal molder. Five percent (5 %) or one waste picker knows domestic chores so she prefers to work as maid. Five percent (5 %) or one waste picker wants to be a roti maker.

Table 37: Future Working Area of Interest

Sr. No.	Kind of work	Person	Percentage
1	Employee at factory	12	60
2	Tailor	1	5
3	Metal molder	1	5
4	Roti Maker	2	10
5	Maid	1	5
6	Nothing	3	15

5. EVALUATION OF SURVEY RESULTS

The survey data is evaluated for the recovery amount and selling price of recyclables collected by the waste pickers in Gujranwala city and at Gondlanwala disposal site on the basis of sample groups surveyed.

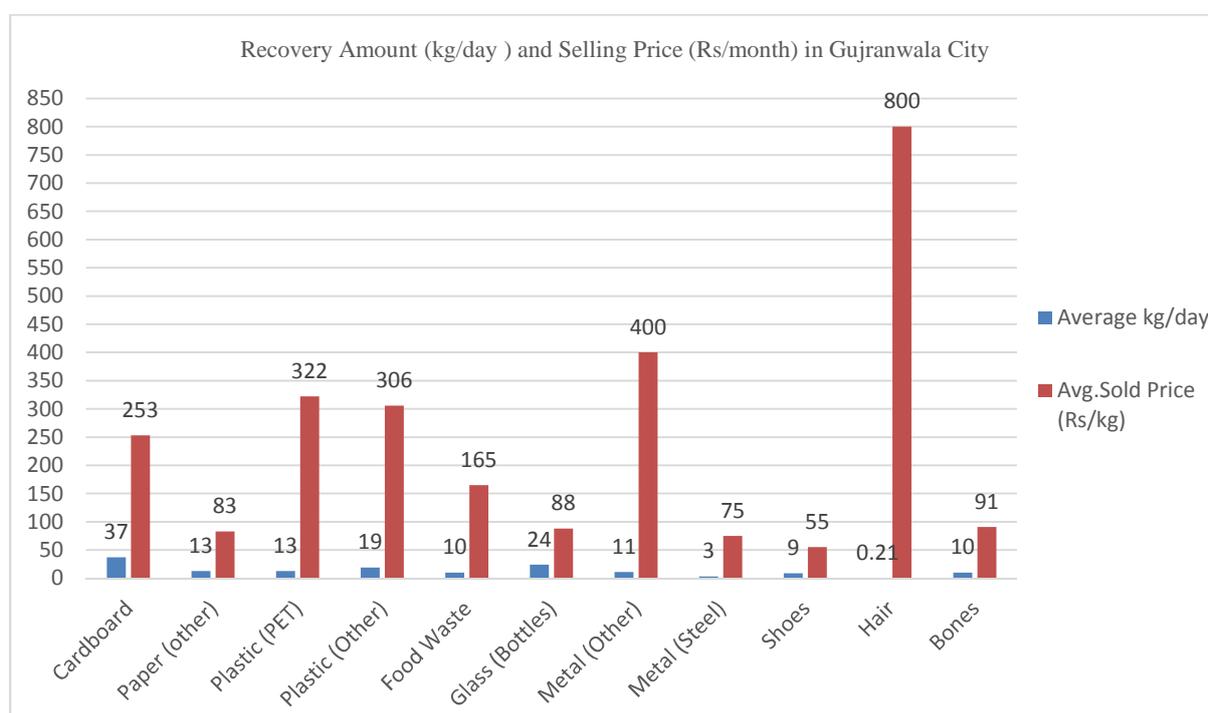
A. Gujranwala Town Areas

Table 38 shows the amount of each recyclable collected per waste picker per day on average, unit price of each recyclable, selling price of each recyclable on average for waste pickers in city. The range of unit price and selling price for each recyclable is evaluated.

Table 38: Evaluated data for Gujranwala City

Sr. No.	Recyclable	Avg. Sold Quantity (kg/day)	Avg. Unit Price (Rs/kg)	Avg. Sold Amount (Rs/day)	Unit Price Range (Rs/kg)	Sold Amount Range (Rs/day)
1	Cardboard	37	8	253	4 to 10	40 to 1,000
2	Paper (other)	13	8	83	5 to 15	75 to 100
3	Plastic (PET)	13	26	322	20 to 30	125 to 750
4	Plastic (Other)	19	8	306	8 to 30	80 to 1,200
5	Food Waste	10	15	165	10 to 22	75 to 440
6	Glass (Bottles)	24	3	88	2 to 5	8 to 320
7	Metal (Other)	11	44	400	30 to 80	60 to 750
8	Metal (Steel)	3	25	75	25	75
9	Shoes	9	5	55	3 to 15	6 to 180
10	Hair	0.21	3,800	800	3,000 to 4,000	400 to 1,200
11	Bones	10	8	91	5 to 10	25 to 400

The graph in Figure 18 shows the amount of recyclables collected and their selling prices per day, almost each type of recyclable is segregated in Gujranwala city by the waste pickers. The recyclable easily collected from the waste is cardboard i.e. 37 kg/day per waste picker on average. But the selling amount of hairs is the highest among other type of recyclables i.e. 800 Rs/ day followed by metals at 400 Rs. /.

**Figure 18: Evaluated Graph for Gujranwala City**

B. Gondlanwala Disposal Site

Table 39 shows the amount of each recyclable collected per waste picker per day on average, unit price of each recyclable, selling price of each recyclable on average for waste pickers at Gondalawala Dumping Site. The range of unit price and selling price for each recyclable is evaluated.

Table 39: Evaluated data for Gondlanwala Disposal Site

Sr. No.	Recyclable	Avg. Sold Quantity (kg/day)	Avg. Unit price (Rs/kg)	Avg. Sold Amount (Rs/day)	Unit Price Range (Rs/kg)	Sold Amount Range (Rs/day)
1	Cardboard	15	7	105	6 to 7	36 to 175
2	Paper (other)	2	30	60	30	60
3	Plastic (PET)	12	20	239	20 to 22	100 to 540
4	Plastic (Other)	10	16	143	7 to 22	80 to 240
5	Glass (Bottles)	33	3	122	2 to 4	30 to 600
6	Glass (Broken)	29	3.5	98	3 to 4	60 to 200
7	Metal (Other)	1	80	80	80	80
8	Metal (Steel)	2	35	70	35	70
9	Shoes	20	4	83	3 to 7	15 to 200
10	Rubber	6	5	29	3 to 7	15 to 42
11	Hair	0.19	4,000	772	4000	320 to 2,000
12	Bones	11	9	106	5 to 10	20 to 200

The graph in Figure 19 shows the amount of recyclables collected in large amount from the waste at Gondlanwala disposal site. Recovered quantity of shoes and glass bottles amount at 53 kg/day and 52 kg/day respectively per waste picker on average. But the selling amount of hairs is the highest among other recyclables i.e. 772 Rs/day followed by.

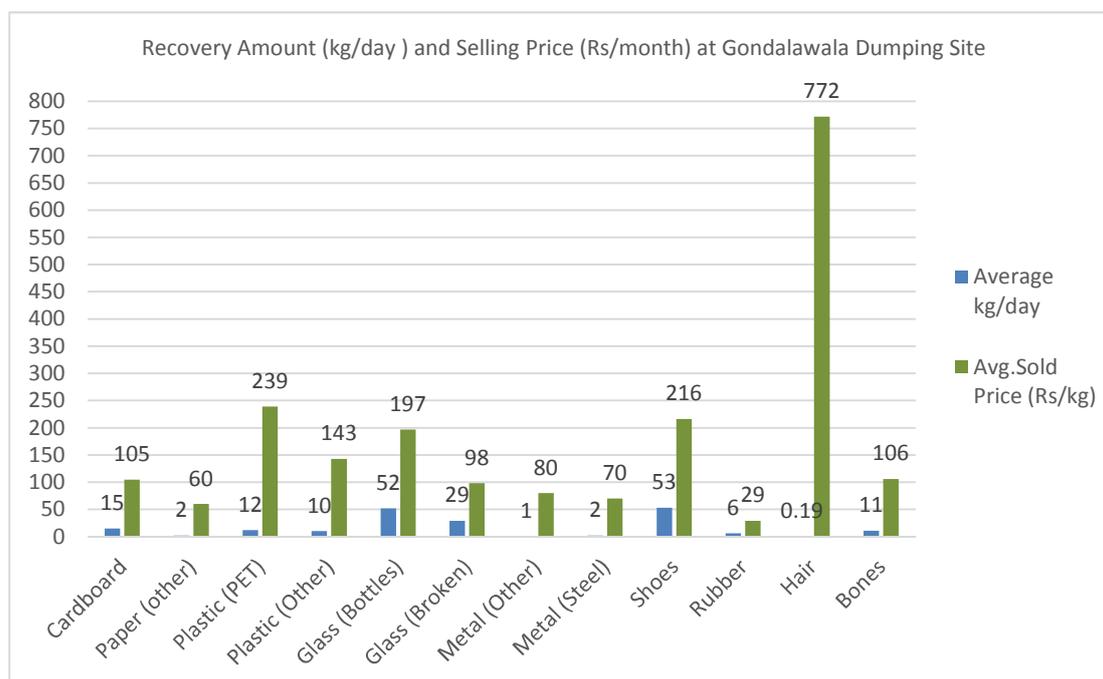


Figure 19: Evaluation graph for Gondalawala dumping site

The graph in Figure 20 shows the amount of recyclables collected by 20 waste pickers in Town. The maximum recovery amount reach at 250 kg/day per person.

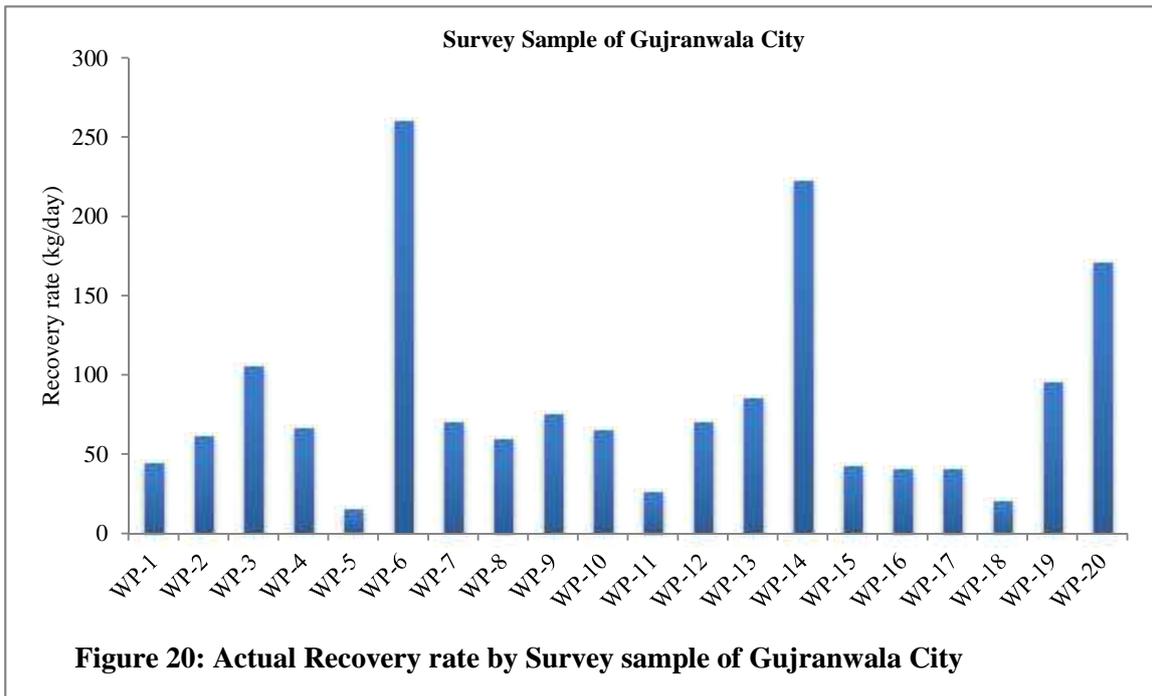


Figure 20: Actual Recovery rate by Survey sample of Gujranwala City

The graph in Figure21 shows the amount of recyclables collected by 20 waste pickers at Gondalawala. The maximum recovery amount reach at 450 kg/day per person.

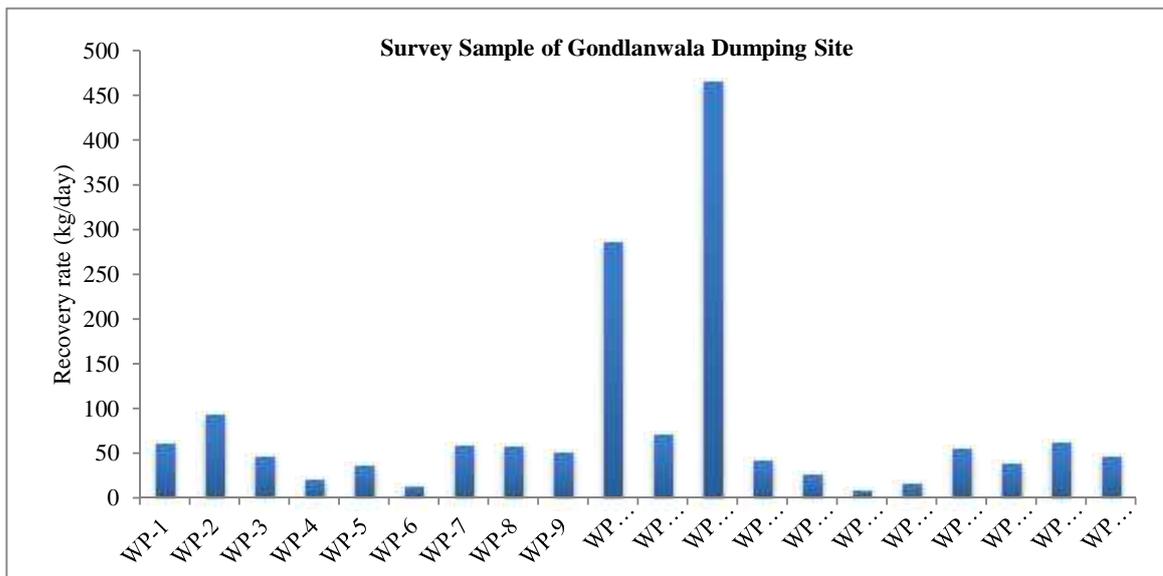


Figure 21: Actual Recovery rate by Survey sample of Gondalawala Dumping Site

From Table 40, the difference in the range of unit price of recyclables is very clear. Waste pickers at Gondalawala are selling recyclables at price higher than the waste pickers in city.

Table 40: Comparison between Survey samples in Gujranwala city and Gondalawala Dumping Site

Categories of Recyclables	Recovery Amount (kg/day)		Avg. Unit Price (Rs/kg)		Avg. Sold Amount (Rs/day)		Unit Price Range (Rs/kg)		Sold Amount Range (Rs/day)	
	GC	GDS	GC	GDS	GC	GDS	GC	GDS	GC	GDS
Cardboard	37	15	8	7	253	105	4-10	6-7	40-1,000	36-175
Paper (other)	13	2	8	30	83	60	5-15	30	75-100	60
Plastic (PET)	13	12	26	20	322	239	20-30	20-22	125-750	100-540
Plastic (Other)	19	10	8	16	306	143	8-30	7-22	80-1200	80-240
Glass (Bottles)	24	33	3	3	88	122	2-5	2-4	8-320	30-600
Glass (Broken)	0	29	0	3.5	0	98	0	3-4	0	60-200
Metal (Other)	11	1	44	80	400	80	30-80	80	60-750	80
Metal (Steel)	3	2	25	35	75	70	25	35	75	70
Shoes	9	20	5	4	55	83	3-15	3-7	6-180	15-200
Rubber	0	6	0	5	0	29	0	3-7	0	15-42
Hair	0.21	0.19	3,800	4,000	800	772	3,000-4,000	4000	400-1,200	320-2,000
Bones	10	11	8	9	91	106	5-10	5-10	25-400	20-200
Food Waste	10	0	15	0	165	0	10 to 22	0	75-440	0
Total	149.21	141.19			2638	1907				

The graph in Figure 22 indicates that cardboard, paper (others), plastic (PET and other), Metal (steel and others) and hair are recovered more in the town area as compared to that recyclables in Gondlanwala disposal site. Waste pickers working in town area do not segregate rubber and broken glasses while food waste is segregated or recovered only by the waste pickers in town area.

Recovery amount of glass bottles, shoes and bones in Gondlanwala disposal site is more as compared to that recyclables in town area, while rubber and broken glass are recovered only in the disposal site. None of the disposal site waste picker is involved in food waste recovery.

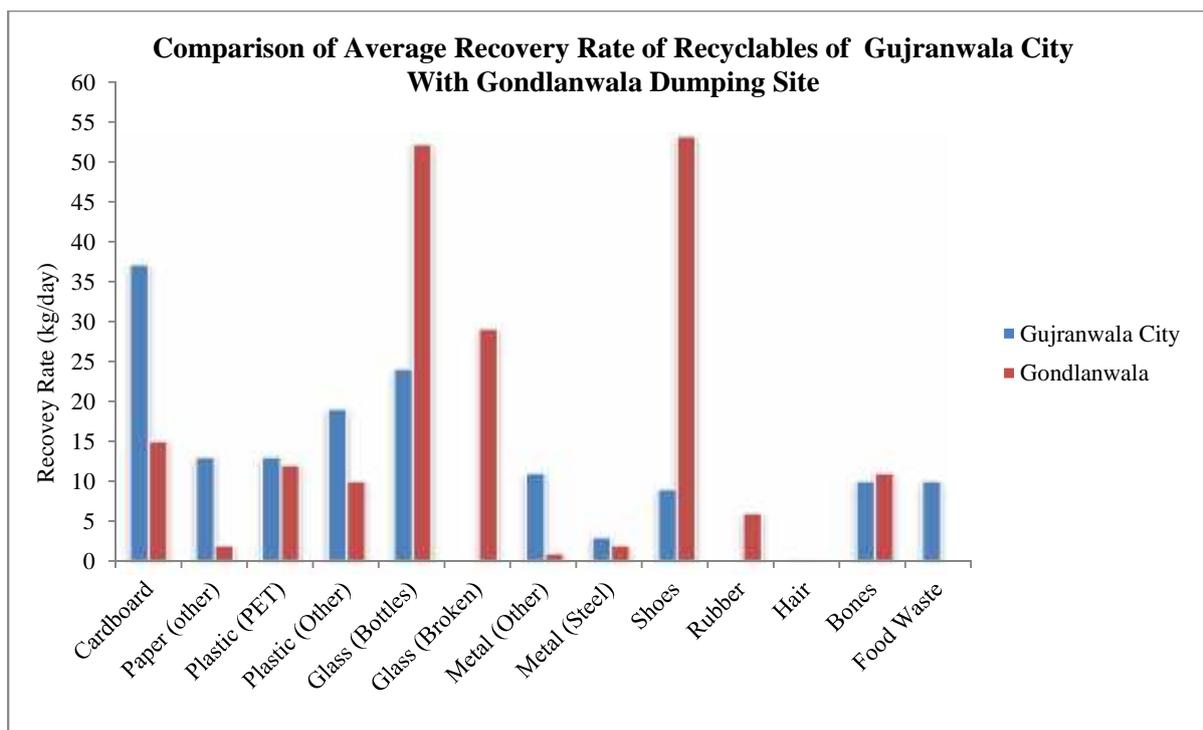


Figure 22: Comparison of Average Recovery Rate of Recyclables of Gujranwala City with Gondalawala Dumping Site

6. CONCLUSIONS

The survey was conducted for the groups of waste pickers working in town area and in the Gondlanwala disposal site by focusing on their involvement in recovery activities revealed their notable role played in waste management.

In both areas, the majority of the waste pickers engage in resource recovery are young people in the age between 15 and 25 years old. Dependency of family ranges between 1 and 15.

Major type of recyclables found in both areas are:

- Recovery amount of Cardboard in Gujranwala City (37 kg/day/person) > Gondalawala Disposal Site (15 kg/day/person)
- Recovery amount of Paper in Gujranwala City (13 kg/day/person) > Gondalawala Disposal Site (2 kg/day/person)
- Recovery amount of Plastic (PET and other) in Gujranwala City (32 kg/day/person) > Gondalawala Disposal site (22 kg/day/person)
- Recovery amount of Glass in Gujranwala City (24 kg/day/person) < Gondalawala Disposal Site (33 kg/day/person)
- Recovery amount of Shoes in Gujranwala City (9 kg/day/person) < Gondalawala Disposal site (20 kg/day/person)
- Recovery amount of Hair in Gujranwala City (0.21 kg/day/person) > Gondalawala Disposal Site (0.19 kg/day/person)

- Recovery amount of Bones in Gujranwala City (10 kg/day/person) < Gondalawala Disposal Site (19 kg/day/person)

Average selling price by 20 waste pickers in Gujranwala city is 1084 Rs/day which is less than average selling price by 20 waste pickers at Gondalawala Disposal site i.e. 1264 kg/day. Average Recovery amount per waste picker in city is 82 kg/day whereas at Gondalawala Disposal Site recovery amount per waste picker is 55 kg/day. Monthly income of waste pickers at Gondalawala Disposal Site is 30,000 Rs/month which is almost same as that of the waste pickers in the city i.e. 29,500 Rs/month.

Waste pickers play an important role in collection of resource materials from the discarded waste and add the value for recycling and reuse in the society. Several thousands of people are engaged in waste linked business throughout the city and elsewhere. The survey showed that the majority of the households discarded hazardous wastes together with other wastes. Those hazardous wastes are corrosive, toxic, ignitable or reactive items that encounter the risks or injury or poisoning particularly to children and people who sort the waste. The waste pickers never wear protective gear for avoiding themselves from injuries or sickness.

7. RECOMMENDATIONS

The results of this survey revealed that the recovery of resource materials in waste is carried out actively by the involvement of waste pickers, junk shops and dealer. Adding the resource materials recovered directly from the large waste generators to the dealers or to the factories, the recovery amount in the current recycling market in Gujranwala is estimated more than 70 ton/day. The amount recovered by them is contributing in waste diversion or reduction of landfill amount in addition to the material recycling. In order to strengthen further the recycling activities through involvement especially of the waste pickers and other stakeholders, the following measures are recommended as a result of the waste picker survey.

- GWMC or CDGG shall register the waste pickers or the group leaders involved in resource recovery work in addition to the registration of junk shops and dealers in compliance with The Punjab Waste Management Act and the relevant laws and regulations.
- Establishment of a liaison council among the stakeholders including waste pickers, junk shops, dealers, factories, GWMC, CDGG, etc. to exchange the opinions for the benefits of further development of resource recovery activities.
- Support and assistance by the GWMC and/or CDGG to the waste pickers and the minorities such as Afghan refugees for improvement of their health risks and living conditions towards a holistic approach for upgrading the municipal solid waste management in Gujranwala through involvement of professional resource recovery workers,
- Introduction of separate collection of domestic hazardous waste by GWMC and a through separate collection and disposal of hospital waste and industrial hazardous waste under the responsibility of the waste generators to avoid mixing of those hazardous waste into municipal waste collection, and
- Provision of support and assistance to the waste pickers at Gondlanwala disposal site. They disturb the landfill operation work from time to time but prohibiting them from waste picking will not solve the problem. Since the resource recovery work is their only mean to earn a living. GWMC should provide alternates opportunities for them to earn a living if GWMC will ban them from entering to the landfill site.

		Waste picker 1	Waste picker 2	Waste picker 3						
Date		3/12/2014	3/12/2014	3/12/2014						
Surveyor		Tanweer Ahmad	Tanweer Ahmad	Tanweer Ahmad						
Recorded by		Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid						
1	General Information									
1.1	Age	18	19	17						
1.2	Sex	Male	Male	Male						
1.3	Address (UC #)	Shaheenabad	Zahid Colony	Shaheenabad UC # 8						
1.4	Distance from your house to the working place (km)	7	8	7						
1.5	Number of dependent family	15	15	8						
1.6	Main job	Waste Picker	Waste Picker	Waste picker						
1.7	Sub job	Sales man	Socks Seller	Nothing						
1.8	Former job	Roti maker	Employee in a Factory	Nothing						
2	Activity profiles									
2.1	Where is your main area of activity?	Gondalawala	Gondalawala and Kacha Fattomand	Gondalawala						
2.2	How many days do you work per week?	5	6	5						
2.3	How many hours do you work per day?(hours)	8	6	9						
2.4	With whom do you work?	Brother	No Body	No Body						
2.5	How long have you engaged in (years)?	10	10	2						
2.6	What is the mode of transporting the recyclable materials to the dealer?	Donkey Cart	Bicycle	Donkey Cart						
3	Recyclables									
3.1	From where do you collect the recyclables? (Container, street, household, etc.)	Gondalawala and Streets	Gondalawala and Streets	Gondalawala						
3.2	Where do you sell the recyclables?	Dhullay Bazar UC # 61	Dhullay Bazar UC # 61	Shaheenabad UC # 8						
3.3	To whom do you sell the recyclables?	Dealer	Junk Shop	Dealer						
3.4	How often do you sell the recyclables?	Daily	Daily	Daily						
3.5	Recovery Amount and Selling Price table									
	<u>Recyclables</u>	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day
	Cardboard				10	6	60			
	Paper (Other)									
	Plastic (PET)	10	22	220	5	20	100	10	20	200
	Plastic (Other)	5	22	110	12	20	240	5	20	100
	Food waste									
	Glass (Bottles)	10	4	40						
	Glass (Broken)	35	4	140	50	4	200	20	3	60
	Metal (Copper)									
	Metal (Brass)									
	Metal (Aluminium)									
	Metal (Steel)									
	Metal (Other)									
	Rubber									
	Shoes				6	7	42	5	3	15
	Leather									
	Hair	0.5	4000	2000	0.08	4000	320	0.1	4000	400
	Bones				10	10	100	5	8	40
3.6	How much do you earn per month from selling the recyclables? (Min., Ave., Max)	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.
			55,000			30,000			25,000	
4	Findings									
4.1	Do you find any changes in recyclable waste type in the last 5 years?	No			No			No		
4.2	Do you find any changes in recyclable amounts in the last 5 years?	No			Yes			No		
4.3	What kind of dangerous wastes have you ever seen?	Medical Waste			Medical Waste			Medical Waste		
4.4	Have you ever get injured?	Yes			Yes			Yes		
5	Concerns / Problems									
5.1	Are there any concerns / problems in your work?	No			No			No		
6	Futures									
6.1	Will you continue to work as a waste picker?	No			Yes			Yes		
6.2	Will you continue to work in this area?	No			Yes			Yes		
6.3	If you can change your work, what kind of work do you engage in future?	Roti Making			Employee in a Factory			Roti Maker		

		Waste picker 4	Waste picker 5	Waste picker 6						
Date		3/12/2014	3/12/2014	3/12/2014						
Surveyor		Tanweer Ahmad	Tanweer Ahmad	Tanweer Ahmad						
Recorded by		Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid						
1	General Information									
1.1	Age	22	16	16						
1.2	Sex	Male	Male	Male						
1.3	Address (UC #)	Dhullay UC # 60	Shaheenabad UC # 8	Shaheenabad UC # 8						
1.4	Distance from your house to the working place (km)	5	7	7						
1.5	Number of dependent family	5	12	20						
1.6	Main job	Waste picker	Waste picker	Waste picker						
1.7	Sub job	Nothing	Nothing	Labour						
1.8	Former job	Nothing	Nothing	Labour						
2	Activity profiles									
2.1	Where is your main area of activity?	Gondlanwala	Gondlanwala	Gondlanwala						
2.2	How many days do you work per week?	6	4	6						
2.3	How many hours do you work per day?(hours)	7	7-Jun	4						
2.4	With whom do you work?	No Body	No Body	No Body						
2.5	How long have you engaged in (years)?	8	4	4						
2.6	What is the mode of transporting the recyclable materials to the dealer?	Donkey Cart	Bicycle	Bicycle						
3	Recyclables									
3.1	From where do you collect the recyclables? (Container, street, household, etc.)	Gondlanwala	Gondlanwala	Gondlanwala						
3.2	Where do you sell the recyclables?	Dhullay UC # 61	Shaheenabad UC # 8	Shaheenabad UC # 8						
3.3	To whom do you sell the recyclables?	Junk Shop	Dealer	Dealer						
3.4	How often do you sell the recyclables?	Daily	Daily	Daily						
3.5	Recovery Amount and Selling Price table									
	<u>Recyclables</u>	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price (Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price (Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price (Rs/kg)
	Cardboard									
	Paper (Other)									
	Plastic (PET)	20	20	400	10	20	200	12	20	240
	Plastic (Other)									
	Food waste									
	Glass (Bottles)									
	Glass (Broken)				25	3	75			
	Metal (Copper)									
	Metal (Brass)									
	Metal (Aluminium)									
	Metal (Steel)									
	Metal (Other)									
	Rubber									
	Shoes									
	Leather									
	Hair	0.3	4000	1200	0.1	4000	400	0.2	4000	800
	Bones									
3.6	How much do you earn per month from selling the recyclables? (Min., Ave., Max)	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.
			45,000			20,000			32,000	
4	Findings									
4.1	Do you find any changes in recyclable waste type in the last 5 years?	Yes			No			No		
4.2	Do you find any changes in recyclable amounts in the last 5 years?	Yes			No			No		
4.3	What kind of dangerous wastes have you ever seen?	Medical Waste			Medical Waste			Medical Waste		
4.4	Have you ever get injured?	Yes			Yes			Yes		
5	Concerns / Problems									
5.1	Are there any concerns / problems in your work?	No			No			No		
6	Futures									
6.1	Will you continue to work as a waste picker?	No			Yes			Yes		
6.2	Will you continue to work in this area?	No			Yes			Yes		
6.3	If you can change your work, what kind of work do you engage in future?	Metal Molder			Employee in a Factory			Employee in a Factory		

		Waste picker 7	Waste picker 8	Waste picker 9						
Date		3/12/2014	3/12/2014	3/12/2014						
Surveyor		Tanweer Ahmad	Tanweer Ahmad	Tanweer Ahmad						
Recorded by		Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid						
1	General Information									
1.1	Age	17	18	18						
1.2	Sex	Male	Male	Male						
1.3	Address (UC #)	Shaheenabad UC # 8	Shaheenabad UC # 8	Shaheenabad UC # 8						
1.4	Distance from your house to the working place (km)	7	7	7						
1.5	Number of dependent family	13	12	13						
1.6	Main job	Waste picker	Waste picker	Waste picker						
1.7	Sub job	Nothing	Nothing	Nothing						
1.8	Former job	waste Picker	Waste picker	Employee at lathe machine						
2	Activity profiles									
2.1	Where is your main area of activity?	Gondlanwala	Gondlanwala	Gondlanwala						
2.2	How many days do you work per week?	5	5	6						
2.3	How many hours do you work per day?(hours)	8	4	5						
2.4	With whom do you work?	No Body	No Body	No Body						
2.5	How long have you engaged in (years)?	8	8	2.5						
2.6	What is the mode of transporting the recyclable materials to the dealer?	Bicycle	Bicycle	Bicycle						
3	Recyclables									
3.1	From where do you collect the recyclables? (Container, street, household, etc.)	Gondlanwala	Gondlanwala	Gondlanwala						
3.2	Where do you sell the recyclables?	Shaheenabad UC # 8	Shaheenabad UC # 8	Shaheenabad UC # 8						
3.3	To whom do you sell the recyclables?	Dealer	Junk Shop	Dealer						
3.4	How often do you sell the recyclables?	Daily	Daily	Daily						
3.5	Recovery Amount and Selling Price table									
	<u>Recyclables</u>	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)
	Cardboard									
	Paper (Other)									
	Plastic (PET)	18	20	360	27	20	540			
	Plastic (Other)							10	20	200
	Food waste									
	Glass (Bottles)	10	4	40	30	2	60	10	3	30
	Glass (Broken)	30	4	120				25	3	75
	Metal (Copper)									
	Metal (Brass)									
	Metal (Aluminium)									
	Metal (Steel)									
	Metal (Other)							1	80	80
	Rubber									
	Shoes									
	Leather									
	Hair	0.15	4000	600	0.2	4000	800	0.2	4000	800
	Bones							4	5	20
3.6	How much do you earn per month from selling the recyclables? (Min., Ave., Max)	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.
			30,000			37,000			33,000	
4	Findings									
4.1	Do you find any changes in recyclable waste type in the last 5 years?	Yes		No		No				No
4.2	Do you find any changes in recyclable amounts in the last 5 years?	Yes		yes		No				No
4.3	What kind of dangerous wastes have you ever seen?	Medical Waste		Medical Waste		Medical Waste				Medical Waste
4.4	Have you ever get injured?	Yes		Yes		Yes				Yes
5	Concerns / Problems									
5.1	Are there any concerns / problems in your work?	No		No		No				No
6	Futures									
6.1	Will you continue to work as a waste picker?	No		No		No				No
6.2	Will you continue to work in this area?	No		No		No				No
6.3	If you can change your work, what kind of work do you engage in future?	No		Employee in a Factory		Tailor				Tailor

		Waste picker 10	Waste picker 11	Waste picker 12						
Date		3/12/2014	3/12/2014	3/12/2014						
Surveyor		Tanweer Ahmad	Tanweer Ahmad	Tanweer Ahmad						
Recorded by		Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid						
1	General Information									
1.1	Age	20	30	19						
1.2	Sex	Male	Male	Male						
1.3	Address (UC #)	Dhullay UC # 60	Alam Chowk UC # 48	Alam Chowk UC # 48						
1.4	Distance from your house to the working place (km)	5	7	7						
1.5	Number of dependant family	13	12	12						
1.6	Main job	Waste picker	Waste picker	Waste picker						
1.7	Sub job	Nothing	Nothing	Nothing						
1.8	Former job	Employee in factory	Nothing	Waste Picker						
2	Activity profiles									
2.1	Where is your main area of activity?	Gondlanwala	Gondlanwala	Gondlanwala						
2.2	How many days do you work per week?	6	6	6						
2.3	How many hours do you work per day?(hours)	8	8	8						
2.4	With whom do you work?	2	No Body	3 persons						
2.5	How long have you engaged in (years)?	15	-	8						
2.6	What is the mode of transporting the recyclable materials to the dealer?	Donkey Cart	Donkey Cart	Motor Bike						
3	Recyclables									
3.1	From where do you collect the recyclables? (Container, street, household, etc.)	Gondlanwala	Gondlanwala	Gondlanwala						
3.2	Where do you sell the recyclables?	Dhullay UC # 60	Alam Chowk UC # 48	Alam Chowk UC # 48						
3.3	To whom do you sell the recyclables?	Dealer	Junk Shop	Dealer						
3.4	How often do you sell the recyclables?	Daily	Daily	Weekly						
3.5	Recovery Amount and Selling Price table									
	<u>Recyclables</u>	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)
	Cardboard	25	7	175	20	7	140	25	6	150
	Paper (Other)	40	25	1000						
	Plastic (PET)							10	35	350
	Plastic (Other)				20	7	140	10	8	80
	Food waste									
	Glass (Bottles)	100	4	400				33	4	132
	Glass (Broken)				30	3	90			
	Metal (Copper)									
	Metal (Brass)									
	Metal (Aluminium)									
	Metal (Steel)									
	Metal (Other)									
	Rubber									
	Shoes	50	4	200				33	4	132
	Leather									
	Hair	0.2	4000	800				0.1	4000	400
	Bones	20	10	200				20	10	200
3.6	How much do you earn per month from selling the recyclables? (Min., Ave., Max)	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.
			70,000			15,000			37,000	
4	Findings									
4.1	Do you find any changes in recyclable waste type in the last 5 years?	Yes			Yes			Yes		
4.2	Do you find any changes in recyclable amounts in the last 5 years?	Yes			Yes			Yes		
4.3	What kind of dangerous wastes have you ever seen?	Medical Waste			Medical Waste			Medical Waste		
4.4	Have you ever get injured?	Yes			No			Yes		
5	Concerns / Problems									
5.1	Are there any concerns / problems in your work?	No			No			No		
6	Futures									
6.1	Will you continue to work as a waste picker?	No			Yes			Yes		
6.2	Will you continue to work in this area?	No			Yes			Yes		
6.3	If you can change your work, what kind of work do you engage in future?	Employee in a Factory			Employee in a Factory			No		

		Waste picker 13	Waste picker 14	Waste picker 15							
Date		3/12/2014	3/12/2014	3/12/2014							
Surveyor		Tanweer Ahmad	Tanweer Ahmad	Tanweer Ahmad							
Recorded by		Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid							
1 General Information											
1.1	Age	16	17	15							
1.2	Sex	Male	Male	Male							
1.3	Address (UC #)	Shaheenabad UC # 8	Shaheenabad UC # 8	Shaheenabad UC # 8							
1.4	Distance from your house to the working place (km)	7	7	7							
1.5	Number of dependent family	7	4	12							
1.6	Main job	Waste picker	Waste picker	Waste picker							
1.7	Sub job	Nothing	Nothing	Nothing							
1.8	Former job	Waste picker	Nothing	Nothing							
2 Activity profiles											
2.1	Where is your main area of activity?	Gondalanwala	Gondlanwala	Gondlanwala							
2.2	How many days do you work per week?	6	6	5							
2.3	How many hours do you work per day?(hours)	6	3	6							
2.4	With whom do you work?	No Body	2 persons	Brother							
2.5	How long have you engaged in (years)?	4	3	3							
2.6	What is the mode of transporting the recyclable materials to the dealer?	Bicycle	Bicycle	Tractor Trolley of GWMC							
3 Recyclables											
3.1	From where do you collect the recyclables? (Container, street, household, etc.)	Gondalanwala	Gondlanwala	Gondlanwala							
3.2	Where do you sell the recyclables?	Shaheenabad, Bhatti Chowk UC # 8	Shaheenabad UC # 8	Shaheenabad UC # 8							
3.3	To whom do you sell the recyclables?	Dealer	Dealer	Dealer							
3.4	How often do you sell the recyclables?	Daily	Daily	Daily							
3.5	Recovery Amount and Selling Price table										
	<u>Recyclables</u>	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	
	Cardboard	6	7	42							
	Paper (Other)										
	Plastic (PET)	10	20	200	10	20	200	7	20	140	
	Plastic (Other)										
	Food waste										
	Glass (Bottles)	25	4	100	15	3	45				
	Glass (Broken)										
	Metal (Copper)										
	Metal (Brass)										
	Metal (Aluminium)										
	Metal (Steel)										
	Metal (Other)										
	Rubber										
	Shoes										
	Leather										
	Hair	0.2	4000	800	0.2	4000	800	0.15	4000	600	
	Bones										
3.6	How much do you earn per month from selling the recyclables? (Min., Ave., Max)	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.	
			30,000			27,000			20,000		
4 Findings											
4.1	Do you find any changes in recyclable waste type in the last 5 years?	No		No		No		No		No	
4.2	Do you find any changes in recyclable amounts in the last 5 years?	No		No		No		No		No	
4.3	What kind of dangerous wastes have you ever seen?	Medical Waste		Medical Waste		Medical Waste		Medical Waste		Medical Waste	
4.4	Have you ever get injured?	Yes		Yes		Yes		Yes		Yes	
5 Concerns / Problems											
5.1	Are there any concerns / problems in your work?	No		No		No		No		No	
6 Futures											
6.1	Will you continue to work as a waste picker?	Yes		No		Yes		Yes		Yes	
6.2	Will you continue to work in this area?	Yes		Yes		Yes		Yes		Yes	
6.3	If you can change your work, what kind of work do you engage in future?	Employee in a Factory		Employee in a Factory		Employee in a Factory		Employee in a Factory		Employee in a Factory	

		Waste picker 16	Waste picker 17	Waste picker 18						
Date		3/12/2014	3/12/2014	3/12/2014						
Surveyor		Tanweer Ahmad	Tanweer Ahmad	Tanweer Ahmad						
Recorded by		Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid						
1	General Information									
1.1	Age	18	18	32						
1.2	Sex	Male	Male	Female						
1.3	Address (UC #)	Shaheenabad UC # 8	Alam Chowk UC # 48	Ghoray Shah, Alam Chowk UC # 48						
1.4	Distance from your house to the working place (km)	7	7	8						
1.5	Number of dependent family	12	8	12						
1.6	Main job	Waste picker	Waste picker	Waste picker						
1.7	Sub job	Nothing	Nothing	Nothing						
1.8	Former job	Nothing	Employee in factory	Nothing						
2	Activity profiles									
2.1	Where is your main area of activity?	Gondlanwala	Gondlanwala	Gondlanwala and city						
2.2	How many days do you work per week?	6	6	6						
2.3	How many hours do you work per day?(hours)	7	7	8						
2.4	With whom do you work?	No Body	No Body	Husband and Kids						
2.5	How long have you engaged in (years)?	10	3	20						
2.6	What is the mode of transporting the recyclable materials to the dealer?	Bicycle	Donkey Cart	Donkey Cart						
3	Recyclables									
3.1	From where do you collect the recyclables? (Container, street, household, etc.)	Gondlanwala	Gondlanwala	Gondlanwala						
3.2	Where do you sell the recyclables?	Shaheenabad UC # 8	Dhullay Bazar UC # 61	Alam Chowk UC # 48						
3.3	To whom do you sell the recyclables?	Dealer	Dealer	Junk Shop						
3.4	How often do you sell the recyclables?	Daily	Weekly	Daily						
3.5	Recovery Amount and Selling Price table									
	<u>Recyclables</u>	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)
	Cardboard				6	6	36	10	7	70
	Paper (Other)									
	Plastic (PET)	15	20	300	6	20	120	8	20	160
	Plastic (Other)				12	10	120			
	Food waste									
	Glass (Bottles)				20	3	60	20	3	60
	Glass (Broken)									
	Metal (Copper)									
	Metal (Brass)									
	Metal (Aluminium)									
	Metal (Steel)									
	Metal (Other)									
	Rubber									
	Shoes									
	Leather									
	Hair	0.3	4000	1200				0.2	4000	800
	Bones				10	8	80			
3.6	How much do you earn per month from selling the recyclables? (Min., Ave., Max)	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.
			40,000			15,000			30,000	
4	Findings									
4.1	Do you find any changes in recyclable waste type in the last 5 years?	Yes			No			Yes		
4.2	Do you find any changes in recyclable amounts in the last 5 years?	Yes			No			Yes		
4.3	What kind of dangerous wastes have you ever seen?	Medical Waste			Medical Waste			Medical Waste		
4.4	Have you ever get injured?	Yes			Yes			Yes		
5	Concerns / Problems									
5.1	Are there any concerns / problems in your work?	No			No			No		
6	Futures									
6.1	Will you continue to work as a waste picker?	Yes			Yes			Yes		
6.2	Will you continue to work in this area?	Yes			No			Yes		
6.3	If you can change your work, what kind of work do you engage in future?	Employee in a Factory			Employee in a Factory			Maid		

		Waste picker 19			Waste picker 20		
Date		3/12/2014			3/12/2014		
Surveyor		Tanweer Ahmad			Tanweer Ahmad		
Recorded by		Hina Aslam and Arkham Wahid			Hina Aslam and Arkham Wahid		
1	General Information						
1.1	Age	28			15		
1.2	Sex	Male			Male		
1.3	Address (UC #)	Awan Chowk UC # 38			Dhullay UC # 61		
1.4	Distance from your house to the working place (km)	8			5		
1.5	Number of dependent family	15			15		
1.6	Main job	Waste picker			Waste picker		
1.7	Sub job	Nothing			Nothing		
1.8	Former job	Shoe polisher			Nothing		
2	Activity profiles						
2.1	Where is your main area of activity?	Gondlanwala			Gondlanwala		
2.2	How many days do you work per week?	6			6		
2.3	How many hours do you work per day?(hours)	6			10		
2.4	With whom do you work?	3 Brothers			No Body		
2.5	How long have you engaged in (years)?	15			5		
2.6	What is the mode of transporting the recyclable materials to the dealer?	Motor Cycle			Bicycle		
3	Recyclables						
3.1	From where do you collect the recyclables? (Container, street, household, etc.)	Gondlanwala			Gondlanwala		
3.2	Where do you sell the recyclables?	Khiali Town			Dhullay UC # 61		
3.3	To whom do you sell the recyclables?	Junk Shop			Dealer		
3.4	How often do you sell the recyclables?	Weekly			Daily		
3.5	Recovery Amount and Selling Price table						
	<u>Recyclables</u>	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)
	Cardboard	21	8	168			
	Paper (Other)	2	30	60			
	Plastic (PET)				10	20	200
	Plastic (Other)	15	13	195	5	20	100
	Food waste						
	Glass (Bottles)				20	4	80
	Glass (Broken)	15	4	60			
	Metal (Copper)						
	Metal (Brass)						
	Metal (Aluminium)						
	Metal (Steel)	2	35	70			
	Metal (Other)						
	Rubber						
	Shoes	6	4	24			
	Leather						
	Hair	0.2	4000	800	0.1	4000	400
	Bones				10	10	100
3.6	How much do you earn per month from selling the recyclables? (Min., Ave., Max)	Min.	Ave.	Max.	Min.	Ave.	Max.
			20,000			25,000	
4	Findings						
4.1	Do you find any changes in recyclable waste type in the last 5 years?	Yes			No		
4.2	Do you find any changes in recyclable amounts in the last 5 years?	Yes			No		
4.3	What kind of dangerous wastes have you ever seen?	Medical Waste			Medical Waste		
4.4	Have you ever get injured?	Yes			Yes		
5	Concerns / Problems						
5.1	Are there any concerns / problems in your work?	No			No		
6	Futures						
6.1	Will you continue to work as a waste picker?	Yes			Yes		
6.2	Will you continue to work in this area?	Yes			Yes		
6.3	If you can change your work, what kind of work do you engage in future?	Employee in a Factory			Nothing		

	Waste picker 1	Waste picker 2	Waste picker 3						
Date	2/12/2014	2/12/2014	2/12/2014						
Surveyor	Tanweer Ahmad	Tanweer Ahmad	Tanweer Ahmad						
Recorded by	Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid						
Coordinates :	N 32° 10' 22.9" E 074° 09' 49.3"	N 32° 08' 58.5" E 074° 09' 38.5"	N32° 09' 27.6" E074° 11' 38.8"						
1 General Information									
1.1 Age	28	25	25						
1.2 Sex	Male	Male	Male						
1.3 Address (UC #)	Baghwala,UC # 62	Mubarak shah,UC # 46	UC # 1						
1.4 Distance from your house to the working place (km)	1	1.5	0.5						
1.5 Number of dependent family	6	14	2						
1.6 Main job	Waste picker	Waste picker	Waste pickers						
1.7 Sub job	-	-	-						
1.8 Former job	-	-	-						
2 Activity profiles									
2.1 Where is your main area of activity?	Baghwala,UC # 62	Mubarak Colony, UC # 46	Kashmir Town,UC # 1						
2.2 How many days do you work per week?	6	7	6						
2.3 How many hours do you work per day?(hours)	8	7	6						
2.4 With whom do you work?	Nobody	Nobody	Nobody						
2.5 How long have you engaged in?	13	14	5						
2.6 How many people engage in waste picking in your working area?(for town waste pickers)	No Idea	4	No idea						
2.7 What is the mode of transporting the recyclable materials to the dealer?	Bicycle	Motorcycle	Bicycle						
3 Recyclables									
3.1 From where do you collect the recyclables? (Container, street, household, etc.)	Households	Waste Filled Plots	Street						
3.2 Where do you sell the recyclables?	Not fix	Jinnah Road	Chamra Market, UC # 1						
3.3 To whom do you sell the recyclables?	Junk Shop	Dealer	Junk Shop						
3.4 How often do you sell the recyclables?	Daily	Monthly	Daily						
3.5 Recovery Amount and Selling Price table									
<u>Recyclables</u>	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price (Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price (Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price (Rs/day)
Cardboard				25	9	225	30	5	150
Paper (Other)	5	15	75						
Plastic (PET)	5	30	150	15	25	375	15	20	300
Plastic (Other)							25	5	125
Food waste	22	20	440						
Glass (Bottles)				12	3	36	10	3	30
Glass (Broken)									
Metal (Copper)									
Metal (Brass)									
Metal (Aluminium)									
Metal (Steel)									
Metal (Other)	12	30	360	2	30	60	25	30	750
Rubber									
Shoes				7	5	35			
Leather									
Hair									
Bones									
3.6 How much do you earn per month from selling the recyclables? (Min., Ave., Max)	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.
		30,000			25,000			35,000	
4 Findings									
4.1 Do you find any changes in recyclable waste type in the last 5 years?	Yes			Yes			No		
4.2 Do you find any changes in recyclable amounts in the last 5 years?	Yes			Yes			Yes		
4.3 What kind of dangerous wastes have you ever seen?	No			No			No		
4.4 Have you ever get injured?	Yes			No			No		
5 Concerns / Problems									
5.1 Are there any concerns / problems in your work?	No			No			No		
6 Futures									
6.1 Will you continue to work as a waste picker?	Yes			No			Yes		
6.2 Will you continue to work in this area?	Yes			No			Yes		
6.3 If you can change your work, what kind of work do you engage in future?	Employee at factory			Employee at factory			Nothing		

		Waste picker 4	Waste picker 5	Waste picker 6						
Date		12-02-14	12-02-14	12-02-14						
Surveyor		Tanweer Ahmad	Tanweer Ahmad	Tanweer Ahmad						
Recorded by		Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid						
Coordinates :		N 32° 09' 64.4" E 074° 12' 20.4"	N 32° 10' 8.74" E 074° 10' 38.77"	N 32° 10' 21.1" E 074° 10' 21.1"						
1	General Information									
1.1	Age	25	35	18						
1.2	Sex	Male	Male	Male						
1.3	Address (UC #)	Kashmir Town,UC # 1	Garjakh, UC # 58	UC 57						
1.4	Distance from your house to the working place (km)	1	1	1						
1.5	Number of dependent family	15	5	15						
1.6	Main job	Waste picker	Waste picker	Waste picker						
1.7	Sub job	-	-	-						
1.8	Former job	-	Employee in factory	Employee in factory						
2	Activity profiles									
2.1	Where is your main area of activity?	Satellite Town ,UC # 16	Gobind garh, UC #57	Model Town,UC # 4						
2.2	How many days do you work per week?	5	6	7						
2.3	How many hours do you work per day?(hours)	5	6	7						
2.4	With whom do you work?	Brother	Nobody	Brother						
2.5	How long have you engaged in?	0.3	3	15						
2.6	How many people engage in waste picking in your working area?(for town waste pickers)	No idea	No idea	2						
2.7	What is the mode of transporting the recyclable materials to the dealer?	On foot	On foot	Donkey Cart						
3	Recyclables									
3.1	From where do you collect the recyclables? (Container, street, household, etc.)	Container	Street	Container						
3.2	Where do you sell the recyclables?	Wahdat Colony, UC # 21	Not fixed	UC 57						
3.3	To whom do you sell the recyclables?	Junk shop	Junk shop	Dealer						
3.4	How often do you sell the recyclables?	Daily	Daily	three days						
3.5	Recovery Amount and Selling Price table									
	<u>Recyclables</u>	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price (Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price (Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price (Rs/day)
	Cardboard	30	6	180				200	5	1000
	Paper (Other)									
	Plastic (PET)	10	30	300						
	Plastic (Other)							20	20	400
	Food waste	5	22	110						
	Glass (Bottles)	21	3	63				30	3	90
	Glass (Broken)									
	Metal (Copper)									
	Metal (Brass)									
	Metal (Aluminium)									
	Metal (Steel)									
	Metal (Other)				15	50	750			
	Rubber									
	Shoes									
	Leather									
	Hair									
	Bones							10	5	50
3.6	How much do you earn per month from selling the recyclables? (Min., Ave., Max)	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.
			20,000			30,000			50,000	
4	Findings									
4.1	Do you find any changes in recyclable waste type in the last 5 years?	-		-	-		Yes			
4.2	Do you find any changes in recyclable amounts in the last 5 years?	-		-	-		Yes			
4.3	What kind of dangerous wastes have you ever seen?	No		No	No		Yes,Medical Waste			
4.4	Have you ever get injured?	No		No	No		Yes			
5	Concerns / Problems									
5.1	Are there any concerns / problems in your work?	No		No	No		No			
6	Futures									
6.1	Will you continue to work as a waste picker?	Yes		Yes	Yes		Yes			
6.2	Will you continue to work in this area?	Yes		Yes	Yes		Yes			
6.3	If you can change your work, what kind of work do you engage in future?	Nothing		Nothing	Nothing		Nothing			

		Waste picker 7	Waste picker 8	Waste picker 9						
Date		12-02-14	12-02-14	12-02-14						
Surveyor		Tanweer Ahmad	Tanweer Ahmad	Tanweer Ahmad						
Recorded by		Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid						
Coordinates :		N 32° 10' 18.0" E 074° 10' 41.7"	N 32° 08' 46.3" E 074° 10' 30.5"	N 32° 09' 34.4" E 074° 12' 20.5"						
1	General Information									
1.1	Age	22	17	17						
1.2	Sex	Male	Male	Male						
1.3	Address (UC #)	Jinnah Road	-	Chamra Mandi UC #1						
1.4	Distance from your house to the working place (km)	0.5	-	0.5						
1.5	Number of dependent family	7	-	4						
1.6	Main job	Waste picker	Waste picker	Waste Picker						
1.7	Sub job	-	-	-						
1.8	Former job	-	-	-						
2	Activity profiles									
2.1	Where is your main area of activity?	Model Town, UC # 4	Data Gang Baksh, UC # 40	Satellite Town UC # 16						
2.2	How many days do you work per week?	7	6	7						
2.3	How many hours do you work per day?(hours)	10	5	9						
2.4	With whom do you work?	Nobody	Brother	Brother						
2.5	How long have you engaged in?	12	2	2						
2.6	How many people engage in waste picking in your working area?(for town waste pickers)	No idea	12	No idea						
2.7	What is the mode of transporting the recyclable materials to the dealer?	On foot	Bicycle	On foot						
3	Recyclables									
3.1	From where do you collect the recyclables? (Container, street, household, etc.)	Street	Container & Street	Street						
3.2	Where do you sell the recyclables?	Jinnah Road	Not fix	Chamra Mandi UC #1						
3.3	To whom do you sell the recyclables?	Dealer	Junk Shop	Junk Shop						
3.4	How often do you sell the recyclables?	Daily	Monthly	Daily						
3.5	Recovery Amount and Selling Price table									
	<u>Recyclables</u>	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price (Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price (Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price (Rs/day)
	Cardboard				25	9	225	25	5	125
	Paper (Other)	20	5	100						
	Plastic (PET)	20	25	500	5	25	125	15	20	300
	Plastic (Other)							10	12	120
	Food waste				5	15	75			
	Glass (Bottles)	20	3	60	10	2	20	15	3	45
	Glass (Broken)									
	Metal (Copper)									
	Metal (Brass)									
	Metal (Aluminium)									
	Metal (Steel)				3	25	75			
	Metal (Other)				1	80	80			
	Rubber									
	Shoes	10	3	30	10	5	50	10	3	30
	Leather									
	Hair									
	Bones									
3.6	How much do you earn per month from selling the recyclables? (Min., Ave., Max)	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.
			25,000			20,000			18,000	
4	Findings									
4.1	Do you find any changes in recyclable waste type in the last 5 years?	Yes		-	-		-			
4.2	Do you find any changes in recyclable amounts in the last 5 years?	Yes		-	-		-			
4.3	What kind of dangerous wastes have you ever seen?	No		-	No		No			
4.4	Have you ever get injured?	No		-	No		No			
5	Concerns / Problems									
5.1	Are there any concerns / problems in your work?	No		-	No		No			
6	Futures									
6.1	Will you continue to work as a waste picker?	Yes		-	Yes		Yes			
6.2	Will you continue to work in this area?	Yes		-	Yes		Yes			
6.3	If you can change your work, what kind of work do you engage in future?	Employee in factory		-	No		No			

		Waste picker 10	Waste picker 11	Waste picker 12						
Date		12-02-14	12-02-14	12-02-14						
Surveyor		Tanweer Ahmad	Tanweer Ahmad	Tanweer Ahmad						
Recorded by		Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid						
Coordinates :		N 32° 09'33.6" E 074° 12' 10.8"	N 32° 08' 52.7" E 074° 12' 21.4"	N 32° 08' 36.8" E 074° 12' 05.8"						
1	General Information									
1.1	Age	22	36	26						
1.2	Sex	Male	Male	Male						
1.3	Address (UC #)	UC # 1	Fakeerpura,UC # 19	Jhangi						
1.4	Distance from your house to the working place (km)	1		3						
1.5	Number of dependent family	9	-	5						
1.6	Main job	Waste Picker	Waste Picker	Waste picker						
1.7	Sub job	-	-	-						
1.8	Former job	-	Labour	-						
2	Activity profiles									
2.1	Where is your main area of activity?	Satellite Town UC # 16	Nasir Colony ,UC # 25	Asghar Colony ,UC # 28						
2.2	How many days do you work per week?	5	6	6						
2.3	How many hours do you work per day?(hours)	5	5	8						
2.4	With whom do you work?	Brother	Brother	Nobody						
2.5	How long have you engaged in?	15	5	10						
2.6	How many people engage in waste picking in your working area?(for town waste pickers)	No idea	No idea	No idea						
2.7	What is the mode of transporting the recyclable materials to the dealer?	On foot	On foot	Bicycle						
3	Recyclables									
3.1	From where do you collect the recyclables? (Container, street, household, etc.)	Container	Street	Container						
3.2	Where do you sell the recyclables?	Muslim Colony,UC #21	Haidri Road, UC # 1	Faqeerpura Chowk,UC # 26						
3.3	To whom do you sell the recyclables?	Junk shop	Junk Shop	Dealer						
3.4	How often do you sell the recyclables?	Daily	Daily	Daily						
3.5	Recovery Amount and Selling Price table									
	<u>Recyclables</u>	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)
	Cardboard	20	8	160	5	8	40			
	Paper (Other)							15	5	75
	Plastic (PET)	5	25	125	10	30	300	10	25	250
	Plastic (Other)									
	Food waste	10	10	100				10	10	100
	Glass (Bottles)	20	3	60	4	2	8	15	3	45
	Glass (Broken)									
	Metal (Copper)									
	Metal (Brass)									
	Metal (Aluminium)									
	Metal (Steel)									
	Metal (Other)									
	Rubber									
	Shoes	5	3	15	2	3	6	5	3	15
	Leather									
	Hair									
	Bones	5	10	50	5	10	50	5	5	25
3.6	How much do you earn per month from selling the recyclables? (Min., Ave., Max)	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.
			15,000			11,000			15,000	
4	Findings									
4.1	Do you find any changes in recyclable waste type in the last 5 years?	No			No			No		
4.2	Do you find any changes in recyclable amounts in the last 5 years?	Yes			No			No		
4.3	What kind of dangerous wastes have you ever seen?	No			No			Yes,Medical		
4.4	Have you ever get injured?	Yes			No			Yes		
5	Concerns / Problems									
5.1	Are there any concerns / problems in your work?	No			No			No		
6	Futures									
6.1	Will you continue to work as a waste picker?	Yes			Yes			Yes		
6.2	Will you continue to work in this area?	Yes			Yes			Yes		
6.3	If you can change your work, what kind of work do you engage in future?	Tailor			Nothing			Employee in factory		

		Waste picker 13	Waste picker 14	Waste picker 15							
Date		12-06-14	12-06-14	12-06-14							
Surveyor		Tanweer Ahmad	Tanweer Ahmad	Tanweer Ahmad							
Recorded by		Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid							
Coordinates :		N 32° 07' 54.6" E 074° 11' 52.0"	N 32° 07' 55.9" E 074° 11' 55.6"	N 32° 08' 17.96" E 074° 11' 48.74"							
1	General Information										
1.1	Age	17	16	16							
1.2	Sex	Male	Male	Male							
1.3	Address (UC #)	Phulli Chowk	Pipli wala pull,UC # 27	Tabarak Colony,UC # 35							
1.4	Distance from your house to the working place (km)	-	-	-							
1.5	Number of dependent family	7	7	6							
1.6	Main job	Waste picker	Waste Picker	Waste Picker							
1.7	Sub job	-	-	-							
1.8	Former job	-	-	-							
2	Activity profiles										
2.1	Where is your main area of activity?	Rana colomy ,UC # 29	Rana Colony ,UC # 29	Asghar Colony, UC # 28							
2.2	How many days do you work per week?	6	5	5							
2.3	How many hours do you work per day?(hours)	3	8	5							
2.4	With whom do you work?	Nobody	Family	Nobody							
2.5	How long have you engaged in?	1	0.25	0.1							
2.6	How many people engage in waste picking in your working area?(for town waste pickers)	No idea	No idea	No idea							
2.7	What is the mode of transporting the recyclable materials to the dealer?	Bicycle	Motor cycle	Bicycle							
3	Recyclables										
3.1	From where do you collect the recyclables? (Container, street, household, etc.)	Street	Container,Street	Container							
3.2	Where do you sell the recyclables?	Not fix	Pipli wala pull,UC # 27	Tabarak Colony,UC # 35							
3.3	To whom do you sell the recyclables?	Dealer	Dealer	Junk shop							
3.4	How often do you sell the recyclables?	Monthly	Daily	Daily							
3.5	Recovery Amount and Selling Price table										
	<u>Recyclables</u>	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	
	Cardboard	20	8	160	40	15	600	15	10	150	
	Paper (Other)										
	Plastic (PET)	20	25	500				10	30	300	
	Plastic (Other)	15	8	120	40	30	1200				
	Food waste										
	Glass (Bottles)	15	3	45	90	3	270	12	5	60	
	Glass (Broken)										
	Metal (Copper)										
	Metal (Brass)										
	Metal (Aluminium)										
	Metal (Steel)										
	Metal (Other)										
	Rubber										
	Shoes	15	10	150	12	15	180				
	Leather			975							
	Hair				0.1	4000	400				
	Bones				40	10	400	5	8	40	
3.6	How much do you earn per month from selling the recyclables? (Min., Ave., Max)	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.	
			26,000				61,000		15,000		
4	Findings										
4.1	Do you find any changes in recyclable waste type in the last 5 years?	-		-		-		-		-	
4.2	Do you find any changes in recyclable amounts in the last 5 years?	-		-		-		-		-	
4.3	What kind of dangerous wastes have you ever seen?	No		No		No		Yes, Medical			
4.4	Have you ever get injured?	No		No		Yes		No			
5	Concerns / Problems										
5.1	Are there any concerns / problems in your work?	No		No		No		No			
6	Futures										
6.1	Will you continue to work as a waste picker?	Yes		Yes		Yes		Yes			
6.2	Will you continue to work in this area?	Yes		Yes		Yes		Yes			
6.3	If you can change your work, what kind of work do you engage in future?	Nothing		Nothing		No		Employee in factory			

		Waste picker 16	Waste picker 17	Waste picker 18						
Date		12-06-14	12-06-14	12-06-14						
Surveyor		Tanweer Ahmad	Tanweer Ahmad	Tanweer Ahmad						
Recorded by		Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid	Hina Aslam and Arkham Wahid						
Coordinates :		N 32° 08' 10.3" E 074° 11' 51.4"	N 32° 09' 33.67" E 074° 12' 20.27"	N 32° 08' 57.4" E 074° 10' 32.7"						
1	General Information									
1.1	Age	22	18	16						
1.2	Sex	Male	Male	Male						
1.3	Address (UC #)	Khiali	Alam Chowk,UC # 48	UC # 50						
1.4	Distance from your house to the working place (km)	-	2	0.5						
1.5	Number of dependant family	-	3	10						
1.6	Main job	Waste Picker	Waste Picker	Waste Picker						
1.7	Sub job	-	-	-						
1.8	Former job	-	-	-						
2	Activity profiles									
2.1	Where is your main area of activity?	Asghar Colony, UC # 28	Wahdat Colony,UC # 21	Data Ganj Baksh, UC # 40						
2.2	How many days do you work per week?	6	6	6						
2.3	How many hours do you work per day?(hours)	10	7	4						
2.4	With whom do you work?	Nobody	Brother	Nobody						
2.5	How long have you engaged in?	10	10	4						
2.6	How many people engage in waste picking in your working area?(for town waste pickers)	No idea	5	No idea						
2.7	What is the mode of transporting the recyclable materials to the dealer?	On foot	Donkeycart	Bicycle						
3	Recyclables									
3.1	From where do you collect the recyclables? (Container, street, household, etc.)	Street	Container	Street						
3.2	Where do you sell the recyclables?	Asghar Colony, UC # 28	Khiali Bypass	UC # 50						
3.3	To whom do you sell the recyclables?	Junk Shop	Dealer	Junk shop						
3.4	How often do you sell the recyclables?	Daily	Monthly	Daily						
3.5	Recovery Amount and Selling Price table									
	<u>Recyclables</u>	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price Rs/day)
	Cardboard	15	6	90						
	Paper (Other)									
	Plastic (PET)	10	25	250	5	30	150	20	25	500
	Plastic (Other)				10	8	80			
	Food waste									
	Glass (Bottles)	10	3	30	10	3	30			
	Glass (Broken)									
	Metal (Copper)									
	Metal (Brass)									
	Metal (Aluminium)									
	Metal (Steel)									
	Metal (Other)									
	Rubber									
	Shoes				10	4	40			
	Leather									
	Hair				0.3	4000	1200	0.2	3000	600
	Bones	5	10	50	5	5	25			
3.6	How much do you earn per month from selling the recyclables? (Min., Ave., Max)	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.
			15,000			40,000			30,000	
4	Findings									
4.1	Do you find any changes in recyclable waste type in the last 5 years?	No		No		-				
4.2	Do you find any changes in recyclable amounts in the last 5 years?	No		No		-				
4.3	What kind of dangerous wastes have you ever seen?	Yes, Medical		Yes, Medical		No				
4.4	Have you ever get injured?	No		Yes		No				
5	Concerns / Problems									
5.1	Are there any concerns / problems in your work?	No		No		No				
6	Futures									
6.1	Will you continue to work as a waste picker?	Yes		Yes		No				
6.2	Will you continue to work in this area?	Yes		Yes		No				
6.3	If you can change your work, what kind of work do you engage in future?	No		No		Employee in factory				

		Waste picker 19			Waste picker 20		
Date		6/12/2014			6/12/2014		
Surveyor		Tanweer Ahmad			Tanweer Ahmad		
Recorded by		Hina Aslam and Arkham Wahid			Hina Aslam and Arkham Wahid		
Coordinates :		N 32° 10'31.2 "	E 074° 09' 50.0"		N 32° 09'14.0 "	E 074° 09' 43.1"	
1	General Information						
1.1	Age	22			34		
1.2	Sex	Male			Male		
1.3	Address (UC #)	Jinnah Road			Qazafi Road,UC # 51		
1.4	Distance from your house to the working place (km)	1			0.5		
1.5	Number of dependent family	30			-		
1.6	Main job	Waste Picker			Waste Picker		
1.7	Sub job	-			-		
1.8	Former job	Mobile oil Business			-		
2	Activity profiles						
2.1	Where is your main area of activity?	Baghwala,UC # 62			Mubarak Colony, UC # 46		
2.2	How many days do you work per week?	6			7		
2.3	How many hours do you work per day?(hours)	10			4		
2.4	With whom do you work?	Friends			Nobody		
2.5	How long have you engaged in?	0.7			10		
2.6	How many people engage in waste picking in your working area?(for town waste pickers)	10			5		
2.7	What is the mode of transporting the recyclable materials to the dealer?	DonkeyCart			On Foot		
3	Recyclables						
3.1	From where do you collect the recyclables? (Container, street, household, etc.)	Street			Street		
3.2	Where do you sell the recyclables?	Jinnah Road			Qazafi Road,UC # 51		
3.3	To whom do you sell the recyclables?	Dealer			Junk Shop		
3.4	How often do you sell the recyclables?	Daily			Daily		
3.5	Recovery Amount and Selling Price table						
	Recyclables	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price (Rs/day)	Recov. Amt. (kg/day)	Unit Price (Rs/kg)	Sold Price (Rs/day)
	Cardboard	30	4	120	40	8	320
	Paper (Other)						
	Plastic (PET)	15	20	300	30	25	750
	Plastic (Other)	10	10	100	20	15	300
	Food waste						
	Glass (Bottles)	40	3	120	80	4	320
	Glass (Broken)						
	Metal (Copper)						
	Metal (Brass)						
	Metal (Aluminium)						
	Metal (Steel)						
	Metal (Other)						
	Rubber						
	Shoes						
	Leather						
	Hair	0.15	4000	600	0.3	4000	1200
	Bones						
3.6	How much do you earn per month from selling the recyclables? (Min., Ave., Max)	Min.	Ave.	Max.	Min.	Ave.	Max.
			35,000			75,000	
4	Findings						
4.1	Do you find any changes in recyclable waste type in the last 5 years?	-			No		
4.2	Do you find any changes in recyclable amounts in the last 5 years?	-			No		
4.3	What kind of dangerous wastes have you ever seen?	Yes, Medical			Yes, Medical		
4.4	Have you ever get injured?	Yes			Yes		
5	Concerns / Problems						
5.1	Are there any concerns / problems in your work?	No			No		
6	Futures						
6.1	Will you continue to work as a waste picker?	Yes			Yes		
6.2	Will you continue to work in this area?	Yes			Yes		
6.3	If you can change your work, what kind of work do you engage in future?	Employee in factory			No		

WASTE PICKERS SURVEY					
	Questions	Waste Pickers in Town		Waste Pickers at Gondalawala	
		Number	Percentage	Number	Percentage
1	General Information				
	Age				
1.1	15-20	8	40	16	80
	21-25	7	35	1	5
	>25	5	25	3	15
	Sex				
1.2	Male	20	100	19	95
	Female	0	0	1	5
	Number of dependant family				
1.3	1 - 5	5	25	2	10
	6 - 10	7	35	3	15
	11-1 5	3	15	14	70
	> 15	1	5	1	5
	No information provided	4	20	0	0
2	Activity profiles				
	How many days do you work per week?				
2.1	7	12	60	0	0
	6	4	20	14	70
	5	4	20	6	30
	How many hours do you work per day?(hours)				
2.2	2 - 4	4	20	3	15
	5 - 7	9	45	9	45
	8 - 10	7	35	8	40
	How long have you engaged in?				
2.3	0-10	15	75	16	80
	11-15	5	25	0	0
	15-20	0	0	3	15
	No information provided	0	0	1	5
	What is the mode of transporting the recyclable materials to the dealer?				
2.4	Bicycle	7	35	10	50
	Motorbike	2	10	2	10
	On foot	8	40	0	0
	Donkeycart	3	15	7	35
	Other	0	0	1	5
3	Recyclables				
	From where do you collect the recyclables? (Container, street, household, etc.)				
3.1	Container	7	41	0	0
	Household	2	12	0	0
	Street	8	47	2	12

	Where do you sell the recyclables?				
3.2	In city	16	80	20	100
	Outside City	0	0	0	0
	Not fixed	4	20	0	0
	To whom do you sell the recyclables?				
3.3	Dealer	8	40	14	70
	Junk shop	12	60	6	30
	Recovery Amount and Selling Price table				
	<u>Recyclables</u>	<u>Avg.kg/day</u>	<u>Avg. Rs/day</u>	<u>Avg.kg/day</u>	<u>Avg. Rs/day</u>
	Cardboard	37	253	15	105
	Paper (Other)	13	83	2	60
	Plastic (PET)	13	322	12	239
	Plastic (Other)	19	306	10	143
	Food waste	10	165	0	0
3.4	Glass (Bottles)	24	88	52	197
	Glass (Broken)	0	0	29	98
	Metal (Steel)	3	75	2	70
	Metal (Other)	11	400	1	80
	Rubber	0	0	6	29
	Shoes	9	55	53	216
	Hair	0.21	800	0.19	772
	Bones	10	91	11	106
4	Findings				
	Do you find any changes in recyclable waste type in the last 5 years?				
4.1	Yes	4	20	8	40
	No	7	35	12	60
	Don't know	9	45	0	0
	Do you find any changes in recyclable amounts in the last 5 years?				
4.2	Yes	6	30	8	40
	No	9	45	12	60
	Don't know	5	25	0	0
5	Futures				
	Will you continue to work as a waste picker?				
5.1	Yes	18	90	13	65
	No	2	10	7	35
	Will you continue to work in this area?				
5.2	Yes	18	90	13	65
	No	2	10	7	35
	If you can change your work, what kind of work do you engage in future?				
5.3	Employee at factory	7	35	12	60
	Tailor	1	5	1	5
	Nothing	12	60	3	15
	Metal molder	0	0	1	5
	Roti Maker	0	0	2	10
	Maid	0	0	1	5



Figures: Survey photographs in Gujranwala City



Figures: Survey Photographs at Gondalawala Dumping Site