

# **Job Change and Self-Control of Waste Pickers: Evidence from a Field Experiment in the Philippines**

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## **Online Appendix**

**(Supplementary content)**

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**Figure S1: Calajunan-controlled disposal facility (November 2013)**



**Figure S2: Waste pickers at the dumpsite in Iloilo City (November 2013)**





**Figure S3: Paper briquette production (November 2013)**

Table S1 *Workers' characteristics by participation status*

	Nonparticipants	Participants	Difference <i>p</i> -value
	(1)	(2)	(3)
Female	0.539 (0.500)	0.500 (0.502)	0.548
Age	35.070 (13.323)	34.616 (12.360)	0.785
Years of education	6.793 (2.931)	7.246 (2.692)	0.216
Average hourly earnings	17.452 (8.571)	19.992 (11.462)	0.052
Selling to the association	0.313 (0.465)	0.348 (0.479)	0.559
No other income earner in HH	0.328 (0.471)	0.196 (0.399)	0.021
No other job	0.602 (0.492)	0.688 (0.466)	0.167
Wants to join PB production	0.883 (0.323)	0.920 (0.273)	0.345
Discount rate	2.773 (1.977)	3.027 (2.033)	0.329
Risk aversion	7.305 (1.653)	6.768 (2.238)	0.034
Willingness to accept closure	5218.254 (3207.177)	5541.284 (3016.259)	0.429
Observations	128	112	

*Notes:* Means are reported from the survey data for participants and nonparticipants. Standard deviations are in parentheses. See the notes of Table 2 for a description of the variables. One observation from nonparticipants lacks data on average hourly earnings. Two observations from nonparticipants and three observations from participants lack data on the willingness to accept closure category.

ID : \_\_\_\_\_

The Survey on Living Standards and Opinions for a New Job  
at Calajunan, Iloilo City



\*\*\*\*\*

This section should be completed by the interviewer  
BEFORE starting the interview.

Date of interview (ddmmyy) \_\_\_\_\_  
The starting time \_\_\_\_ : \_\_\_\_AM/PM

**Interviewed by** \_\_\_\_\_

**Respondent name**\_\_\_\_\_

Sex \_\_\_\_ 1. Male 2. Female

Date checked (ddmmyy) \_\_\_\_\_  
Checked by \_\_\_\_\_  
Date entered (ddmmyy) \_\_\_\_\_  
Data entered by \_\_\_\_\_

*Contacts*

Followings are the contact details.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

ID : \_\_\_\_\_

## **STARTING UP**

Introduction of this interview survey to the respondent based on the items below:

- (1) The objective
- (2) The protection of personal information
- (3) The reward (no payment)
- (4) The content

### **TIPS!**

The target respondent should be a waste picker who does NOT have an alternative livelihood.

The “ID:\_\_\_\_\_” upper right should always be input by ██████.

Your way of entering the answers should be followed below.

### **How to enter the answer**

<b>Answer given the choices</b>	The number of the choice(s)
<b>Free answer (Numerical quantity)</b>	The answer (no change)
<b>Free answer (Description)</b>	The answer translated into English
<b>Rejected answer</b>	N.A.
<b>Skipped answer</b>	(Slash)

ID : \_\_\_\_\_

# **[1] Questions regarding SOCIODEMOGRAPHICS (D1~)**

Member Code	D1	D2	D3	D4	D5	D6	D7
	Please provide <u>the full name</u> of each household member (i.e., a person who shares income and expenditure).	Relation to respondent <div>See Codes (D2)</div>	Sex <b>1. Male</b> <b>2. Female</b>	How old is [member]? <b>Free answer</b>	Marital status <div>See Codes (D5)</div>	Is [member] earning for your family? <b>1. Yes</b> <b>2. No</b>	Years of education <div>See reference (D7)</div>
1	<b>Respondent</b>						
2							
3							
4							
5							
6							
7							
8							
9							
10							

**Relation Codes (D2)**

1=Spouse  
2=Child  
3=Parent  
4=Grandchild  
5=Grandparent  
6=Brother/sister  
7=Nephew/niece  
8=Other relative  
9=Other nonrelative

**Marital Codes (D5)**

1=Single  
2=Married  
3=Divorced  
4=Widow/widower  
5=Separated

**\*\*Reference (D7)\*\***

Elementary school: 6 years  
High school: 4 years  
College: 4 years



ID : \_\_\_\_\_

Member Code	D1	D2	D3	D4	D5	D6	D7	<b>Relation Codes (D2)</b> 1=Spouse 2=Child 3=Parent 4=Grandchild 5=Grandparent 6=Brother/sister 7=Nephew/niece 8=Other relative 9=Other nonrelative
	Please provide <u>the full name</u> of each household member (i.e., a person who shares income and expenditure).	Relation to respondent <u>See Codes (D2)</u>	Sex <b>1. Male</b> <b>2. Female</b>	How old is [member]? <b>Free answer</b>	Marital status <u>See Codes (D5)</u>	Is [member] earning for your family? <b>1. Yes</b> <b>2. No</b>	Years of education <u>See reference (D7)</u>	
11								
12								
13								
14								<b>Marital Codes (D5)</b> 1=Single 2=Married 3=Divorced 4=Widow/widower 5=Separated
15								
16								
17								
18								
19								<b>**Reference (D7)**</b> Elementary school: 6 years High school: 4 years College: 4 years
20								

ID : \_\_\_\_\_

No.	Question	Options	Answer	
<b>D8</b>	Do you live in Calajunan now?	1. Yes 2. No (>>D8-2)	>>D8-1a	
	If the answer of D8 is 1. Yes...			
	<b>D8-1a</b>	How long have you lived at Calajunan?		(years)
	<b>D8-1b</b>	Have you ever lived anywhere other than Calajunan?	1. Yes 2. No	
		If the response of D8-1b is 1. Yes...		
		<b>D8-1b1</b>	Where is that place?	See Codes (D8-1b1)
If the response of D8 is 2. No...				
<b>D8-2</b>	Where is that place?	See Codes (D8-2)		
<b>D9</b>	What type is your housing?	1. Bamboo 2. Paper 3. Wood 4. Concrete 5. Other	If "5. Other," describe it.	

**Residence Codes**

**(D8-1b1, D8-2)**

- 1=Mandurriao  
(Other than Calajunan)  
2=Jaro  
3=Lapaz  
4=Molo  
5=Arevalo  
6=The city proper  
7=Outside Iloilo City

ID : \_\_\_\_\_

## **[2] Questions regarding WASTE PICKING (WP)**

No.	Question	Options	Answer
WP1	For how many years have you collected waste?		(years)
WP2	What motivated or triggered you to collect waste?	Free answer.	
WP3	How many kg of recyclables do you collect <b>per day</b> on average?		(kg)
WP4	How much do you earn <b>per day</b> on average?		(PHP)
WP5	How much do you earn <b>per month</b> on average?		(PHP)
WP6	How many hours do you work <b>per day</b> on average?		(hours)
WP7	How many days do you work <b>per month</b> on average?		(days)
WP8	To which junk shop do you usually sell your recyclable waste?	See Code (WP8) Multiple choices	If "6=Other," describe it.

### **Junk Shop Codes (WP8)**

1=UCLA  
 2=MGB  
 3=Mr. Segovia's Junk Shop  
 4=Mr. Rosheen's Junk Shop  
 5=Mr. Hero's Junk Shop  
 6=Other

ID : \_\_\_\_\_

### **【3】 Questions regarding WORK EXPERIENCE (WE)**

No.	Question		Options	Answer
WE1	Do you have any other job besides waste picking <u>right now</u> ?		1. Yes 2. No	>>WE1a
	If the answer of WE1 is 1. Yes...			
	WE1a	What kind of work is it?	Free answer	
WE2	Did you have any other job besides waste picking <u>in the past</u> ?		1. Yes 2. No	>>WE2a
	If the answer of WE2 is 1. Yes...			
	WE2a	What kind of work was it?	Free answer	

ID : \_\_\_\_\_

#### **[4] Questions regarding WILLINGNESS TO ACCEPT (WTA)**

Show the cited photo to the respondent for this question.

##### **(Interviewer)**

In this section, I would like you to assume a certain situation that is NOT real. Please listen to what I tell you carefully and answer some questions later.

Please imagine a situation that the Calajunan dumpsite will be closed during December 2013 because of the construction of a new sanitary landfill. Entrance into the dumpsite will not be permitted for a month. This means that earning money from collecting recyclables will become difficult for you. Therefore, [REDACTED] considers compensating you for the reasonable amount of income during that month.

Cited Photos



ID : \_\_\_\_\_

No.	Question	Options	Answer
WTA1	Do you agree or disagree with this policy?	1. Agree 2. Disagree 3. No opinion	
WTA2	Please give me your reason for your opinion.	Free answer	
WTA3	How much <u>per month</u> is sufficient for you to accept this policy instead of entering the dumpsite?	Free answer (No limitation for the answer)	(PHP) for a month

ID : \_\_\_\_\_

## **[5] Choice Experiment for STATED RISK PREFERENCES (SRP)**

**Prepare a set of cards for this choice experiment BEFORE the start.**

### **Introduction**

**(Interviewer)** In this game, your earnings will depend partly on your decisions and partly on chance. There are eight questions. I will offer you two plans: Plan A and Plan B. I would like you to choose either Plan A or Plan B for each question.

If you choose Plan A, your earnings will be the amount given in Plan A. If you choose Plan B, your earnings will be one of the two values given in Plan B. The value will be decided by flipping a coin. Let's practice with Question 1 as an example.

### **Example**

***Show the example to the respondent***

**(Interviewer)**

- For No. 1, if you choose card A, you will receive **500 PHP** for sure.
- If you choose card B, you will flip a coin. If it is heads, you will receive **750 PHP**. If it is tails, you will receive **50 PHP**.
- Please tell me which you prefer.

**Circle the answers below**

No. of Qs	A	⊗	B	Answer
1	500 PHP	or	750 PHP or 50 PHP	A • B
2	500 PHP		750 PHP or 300 PHP	A • B
3	500 PHP		750 PHP or 500 PHP	A • B

**Repeat the same steps for No. 2 and No. 3**

***Ask the respondent whether he or she is unclear or needs more explanation.***

***If the respondent fully understands the rules and he or she can carry out the choice experiment, go to the main game.***



ID : \_\_\_\_\_

## Main game

Circle the answer

No. of Qs	A			B					Answer
1	500	PHP	or	750	PHP	or	50	PHP	A • B
2	500	PHP		750	PHP	or	150	PHP	A • B
3	500	PHP		750	PHP	or	200	PHP	A • B
4	500	PHP		750	PHP	or	300	PHP	A • B
5	500	PHP		750	PHP	or	350	PHP	A • B
6	500	PHP		750	PHP	or	400	PHP	A • B
7	500	PHP		750	PHP	or	450	PHP	A • B
8	500	PHP		750	PHP	or	500	PHP	A • B

*After the respondent finishes answering, confirm whether the answers are correct or not.*

**-----Short break for 2 minutes -----**

ID : \_\_\_\_\_

## **[6] Choice Experiment for the STATED DISCOUNT RATE (SDR)**

**Prepare a set of handouts for this choice experiment BEFORE the start.**

### **Introduction**

**(Interviewer)** In this game, you will receive money either today or sometime in the future, depending on the choices you make. There are 30 questions. For each question, we will offer you two plans: Plan A and Plan B. We would like you to choose either Plan A or Plan B for each question. Let's practice Question 1 in the example.

***Show the example to the respondent.***

### **Example**

**(Interviewer)** Two plans, A and B, are offered to you. If you choose Plan A, you will receive **500 PHP** for sure in one week. If you choose Plan B, you will receive **80 PHP** today. Please tell me the plan you prefer.

**Circle the answers**

No. of Qs	A					B			Answer
1	600	PHP	in	1 week	or	80	PHP	Today	A • B
2	600	PHP	in	1 week		240	PHP	Today	A • B
3	600	PHP	in	1 week		400	PHP	Today	A • B

***Go to the next question and repeat the same steps as in Question 1.***

***Repeat the same steps for No. 2 and No. 3.***

***Ask the respondent whether he or she is unclear or needs more explanation.***

***If the respondent fully understands the rules and he or she can carry out the choice experiment, go to the main game.***

ID : \_\_\_\_\_

## Main game **Set 1**

Circle the answer

No. of Qs	<b>A</b>					<b>B</b>			<b>Answer</b>
1	120	PHP	in	3 days	or	20	PHP	Today	A • B
2	120	PHP	in	3 days		40	PHP	Today	A • B
3	120	PHP	in	3 days		60	PHP	Today	A • B
4	120	PHP	in	3 days		80	PHP	Today	A • B
5	120	PHP	in	3 days		100	PHP	Today	A • B

ID : \_\_\_\_\_

## Main game **Set 2**

Circle the answer

No. of Qs	<b>A</b>					<b>B</b>			<b>Answer</b>
1	120	PHP	in	2 weeks	or	20	PHP	Today	A • B
2	120	PHP	in	2 weeks		40	PHP	Today	A • B
3	120	PHP	in	2 weeks		60	PHP	Today	A • B
4	120	PHP	in	2 weeks		80	PHP	Today	A • B
5	120	PHP	in	2 weeks		100	PHP	Today	A • B

ID : \_\_\_\_\_

## Main game **Set 3**

Circle the answer

No. of Qs	<b>A</b>					<b>B</b>			<b>Answer</b>
1	120	PHP	in	2 months	or	20	PHP	Today	A • B
2	120	PHP	in	2 months		40	PHP	Today	A • B
3	120	PHP	in	2 months		60	PHP	Today	A • B
4	120	PHP	in	2 months		80	PHP	Today	A • B
5	120	PHP	in	2 months		100	PHP	Today	A • B

ID : \_\_\_\_\_

## Main game **Set 4**

Circle the answer

No. of Qs	<b>A</b>					<b>B</b>			<b>Answer</b>
1	600	PHP	in	3 days	or	100	PHP	Today	A • B
2	600	PHP	in	3 days		200	PHP	Today	A • B
3	600	PHP	in	3 days		300	PHP	Today	A • B
4	600	PHP	in	3 days		400	PHP	Today	A • B
5	600	PHP	in	3 days		500	PHP	Today	A • B

ID : \_\_\_\_\_

## Main game **Set 5**

Circle the answer

No. of Qs	<b>A</b>					<b>B</b>			<b>Answer</b>
1	600	PHP	in	2 weeks	or	100	PHP	Today	A • B
2	600	PHP	in	2 weeks		200	PHP	Today	A • B
3	600	PHP	in	2 weeks		300	PHP	Today	A • B
4	600	PHP	in	2 weeks		400	PHP	Today	A • B
5	600	PHP	in	2 weeks		500	PHP	Today	A • B



ID : \_\_\_\_\_

## Main game **Set 6**

Circle the answer

No. of Qs	<b>A</b>					<b>B</b>			<b>Answer</b>
1	600	PHP	in	2 months	or	100	PHP	Today	A • B
2	600	PHP	in	2 months		200	PHP	Today	A • B
3	600	PHP	in	2 months		300	PHP	Today	A • B
4	600	PHP	in	2 months		400	PHP	Today	A • B
5	600	PHP	in	2 months		500	PHP	Today	A • B

ID : \_\_\_\_\_

## **[7] Questions regarding PAPER BRIQUETTES (PB)**

No.	Questions	Options	Answers
<b>PB1</b>	Do you know about paper briquettes?	<u>See Code (PB1)</u>	
<b>PB2</b>	Do you know about the job of producing paper briquettes that UCLA offers to waste pickers?	<u>See Codes (PB2)</u>	Interpret the answer.

### **Knowledge Codes**

#### **(PB1, PB2)**

- 1=Know very well
- 2=Know
- 3=No opinion
- 4=Do not know well
- 5=Do not know at all

**Show the cited photo of briquettes to the respondent.**

<b>PB3</b>	Do you want to join the job of producing paper briquettes?		1. Yes 2. No	
	If the response of PB3 is 2. No...			
	PB3a	Why do you think so?	Free answer	
<b>PB4</b>	What fuels do you use for cooking at home?		<u>See Codes (PB4)</u>	If "6=Other," describe it.
<b>PB5</b>	UCLA members are engaged in the production of paper briquettes. How close are you with them?		<u>See Codes (PB5)</u>	Interpret the answer.

### **Fuel type Codes (PB4)**

- 1=Charcoal
- 2=Wood
- 3=LPG
- 4=Briquettes
- 5=Electricity
- 6=Others

### **Closeness Codes (PB5)**

- 1=Very close
- 2=Close
- 3=No opinion
- 4=Not very close
- 5=Not close at all

ID : \_\_\_\_\_

## **【8】 Questions regarding COMMUNITY NETWORKS (CN)**

No.	Questions	Options	Answers
CN1	Do you have a mobile phone?	1. Yes 2. No	
	If the response of CN1 is 1. Yes...		
	CN1a	If it is acceptable for you, please tell me your number.	
	CN1b	Who is the person you most frequently contacted last month using your mobile phone?	See Codes (CN1b)
	CN1c	Where does the person (CN1b) live now?	See Codes (CN1c)
	CN1d	Who is the person you second most frequently contacted last month using your mobile phone?	See Codes (CN1d)
	CN1e	Where does the person (CN1d) live now?	See Codes (CN1e)
CN2	How many days do you go to the city proper in a week on average?	1. 0 days (Do not go) 2. 1–2 days 3. 3–4 days	

### **Calling partner Codes**

**(CN1b, CN1d)**

- 1=Spouse
- 2=Child
- 3=Parent
- 4=Other relative
- 5=Friend
- 6=Business associate
- 7=Other

### **Residence of a calling**

**partner Codes**

**(CN1c, CN1e)**

- 1=Mandurriao
- 2=Iloilo City other than Mandurriao
- 3=Panay island other than Iloilo City
- 4=Manila
- 5=Cebu
- 6=The Philippines other than the above areas
- 7=Foreign country

ID : \_\_\_\_\_

		4. 4–5 days 5. 7 days (everyday)	
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The offer letters used in the experiment

English version.

Page 1 of the offer letter

## **JOB OPPOTUNITY**

### **~Paper Briquette Producer~**

Background											
<p>██ will conduct an alternative livelihood project of producing paper briquettes for the people living in Calajunan, Iloilo City. We are now looking for the following people to participate in this project.</p>											
Job description											
<p>You will be tasked with producing paper briquettes with machines developed by CPU. All the materials and equipment needed for production will be provided by us. Technical staff will explain how to use the machines and support you every day.</p>											
Working Patterns											
■Monday to Saturday from November 27 to December 18, 2013 (18 days)											
■Duty hours: Five hours from 10 am to 4 pm (including one hour for lunchtime)											
Workplace	Number of vacancies										
Uswag Calajunan Livelihood Association Center	More than 16 people										
Requirement											
■Attendance for an orientation for the project on November 27.											
■Open-minded or friendly. Both male and female, old and young are welcome.											
Flow of the application											
<table><tr><td>Application period</td><td>November 21–26, 2013</td></tr><tr><td>↓</td><td></td></tr><tr><td>Orientation for participants</td><td>November 27, 2013</td></tr><tr><td>↓</td><td></td></tr><tr><td>Production of paper briquettes</td><td>November 27 to December 18, 2013.</td></tr></table>		Application period	November 21–26, 2013	↓		Orientation for participants	November 27, 2013	↓		Production of paper briquettes	November 27 to December 18, 2013.
Application period	November 21–26, 2013										
↓											
Orientation for participants	November 27, 2013										
↓											
Production of paper briquettes	November 27 to December 18, 2013.										
How to apply?											
<p>Please complete the following application form and submit it to the UCLA center by November 26.</p>											

## WHY DON'T YOU JOIN PAPER BRIQUETTE PRODUCTION?

### ■ Allowance

- 1 PHP per four pieces of paper briquettes
- \* Your salary will depend on your production.
- Payment will be made every day.
- \* You will be paid your salary every day.



Contact:

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

## **WHY DON'T YOU JOIN PAPER BRIQUETTE PRODUCTION?**

### ■ Allowance

- 1 PHP per four pieces of paper briquettes
- \* Your salary will depend on your production.
- Payment will be made twice a week.
- \* You will be paid your salary for three days every Wednesday and Saturday



Contact:

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]



## **WHY DON'T YOU JOIN PAPER BRIQUETTE PRODUCTION?**

### ■ Allowance

- Fixed rate 65 PHP /day
- \* Your salary does not depend on your production.
- Payment will be made twice a week
- \* You will be paid your salary for three days every Wednesday and Saturday



Contact:

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

## WHY DON'T YOU JOIN PAPER BRIQUETTE PRODUCTION?

### ■ Allowance

- Fixed rate 30 PHP/day

If you successfully produce 150 pieces per day, you will be paid a bonus.

\*A bonus: 1 PHP per four pieces for paper briquettes that you additionally produce more than 150 pieces

- Payment will be made twice a week

\*You will be paid your salary for three days every Wednesday and Saturday



Contact:

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]