# ÖZKARTALLAR CAMPAK JOINT VENTURE

# Solid Waste Management Plan for Township-2 (UC-133)

2013

Ву:

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# **Contents**

1.	F	acts	2
2	In	ntroduction	3
3		Solid Waste Generation	
4	S	Solid Waste Management Practices	4
5	S	Street Sweeping and Waste Collection by Sanitary Workers	4
	5.1	Beat List	4
6	Н	luman Resource	5
8	21	nd Shift Operational Arrangement	6
9	S	Solid Waste Storage	7
,	9.1	Waste Storage Facility	7
,	9.2	Points of Containers	8
So	lid \	Waste Collection & Transportation	9
,	9.3	Route for Compactor	9
,	9.4	Staff Deployment for Compactor Vehicle	11
10		Door To Door Waste Collection	12
10	.1	System for D-T-D Waste Collection	12

# 1. Facts

	132				
NAME	UC NAME OF THE AREA				
	CATEGORY				
	POPULATION				
	HOUSEHOLDS				
	GENERATION				
MA	MAJOR ROADS				
I	MARKETS				
•	MOSQUES				
IMA	IMAM BARGAH				
EDUCATI	EDUCATIONAL INSTITUTES				
		REGULAR	6		
		WC	12		
	MALE	S&C	0		
		Z & C	11		
0.411=4-514		TOTAL	29		
SANITARY		REGULAR	5		
WORKERS		WC	3		
	FEMALE	S&C	0		
		Z&C	4		
		TOTAL	12		
	GRAND TOTAL		41		
STATIONARY RESOURCES			48		

	STORAGE CAPACITY (1 TIME LIFTING)		14.4
	HAND CARTS		20
	WHEELY BINS		15
	COMPACTOR (7 m3)	1st SHIFT	1137
		TRIPS	2
		TRIPS	0
		2nd SHIFT	0
MECHANICAL		1st SHIFT	1067
RESOURCES		TRIPS	1
	(13 m3)	TRIPS	1
		2nd SHIFT	1067
	MINI DUMPER	1st SHIFT	51
		2nd SHIFT	0

### 2 Introduction

Union Council – 133 (Township-2) is located in Allama Iqbal Town. Total area of the UC is 4797787 m<sup>2</sup> with population of 55215<sup>1</sup>. This area is predominantly middle income area with planned settlement.



Figure 1: Map of UC 133 Township-2

<sup>&</sup>lt;sup>1</sup> Punjab Development Statistics – 2011, Bureau of Statistics, Govt. of the Punjab

### 3 Solid Waste Generation

Estimated solid waste generation is 35.89 tons per day @ waste generation rate of 0.65 kg/person/day.

# 4 Solid Waste Management Practices

This area is under control of M/s. OZPak J.V for solid waste management. Existing arrangements for SWM based upon actual operations are as follows:

# 5 Street Sweeping and Waste Collection by Sanitary Workers

### 5.1 Beat List

S.N	NAME OF WORKER	DESIGNATED AREA
1	Basheeran kulla	Civil defence road and block 6
2	Sughran shoukat	Al kareem chowk (Abubakar road to
		barkat chowk)
3	Rehana javaid	Al kareem chowk (Abubakar road to
		barkat chowk)
4	Javaid ghulam	Al kareem chowk (Abubakar road to
		barkat chowk)
5	Kramat manzoor	Alkareem chowk to block 4
6	Khalil manzoor	Drain to 4 block bridge
7	Rocus manzoor	Compactor 1067 and samosay wali
		main
8	Aashiq pooran	Main peeco road to mocha pura
9	Barkat daleep	Mocha pura to akbar chowk
10	Safdar sadiq	Akbar chowk to college road
11	Shoukat meraj	Muhammad ali chowk to barkat chowk
12	Azra aslam	Block 13, sector B-1
13	Joseoph hazara	Block 14, sector B-1
14	Khalid barkat	Khajjian wali main and block 2
15	Rasheed	Kashmeer road and block 13
16	Sardar anwar	Srafa bazar block 12
17	Nasir barkat	11 and 12 block main
18	Anayat wasakhi	15 block and aslam chowk main
19	Zahra anayat	15 block and aslam chowk main
20	Rafaquat	Al madina road
21	Khurram basher	Block 8, sector B-1
22	Basher noor	Al madina road
23	Naseer noor	Al madina road
24	Grace ghafoor	Jinnah market
25	Nadeem anokha	Block 12
26	Rukhsana anayat	Main of block 12 and 13
27	Nazeer hazara	Block 13

28	Zareena pervaiz	Block 9
29	Saddique nawab	Second time compactor
30	Abdul majeed	Second time compactor
31	Nazeer barkat	block 7, sector B-1
32	Mukhtar	Block 4 and 3, main of block 4
33	Sadiq sohan	Main market
34	Shehbaz sardar	Second time compactor
35	Pervaiz	Jinnah market
36	Nazeeran baloch	Block nill, sector B-2
37	Altaf anayat	Compactor and B-2
38	Binyamin basher	Block 2 sector B-2
39	Hanifan sarwar	Block number 5, sector B-1
40	Anayat boota	Almadina road
41	Basher boota	Block 3 sector B-1

- 10 sanitary workers deployed in each Team and each sanitary worker has his own defined beet.
- Solid waste is collected by sanitary workers from streets & households and hauled to container by wheelie bins / hand carts.
- Waste bags also used for roads sweeping

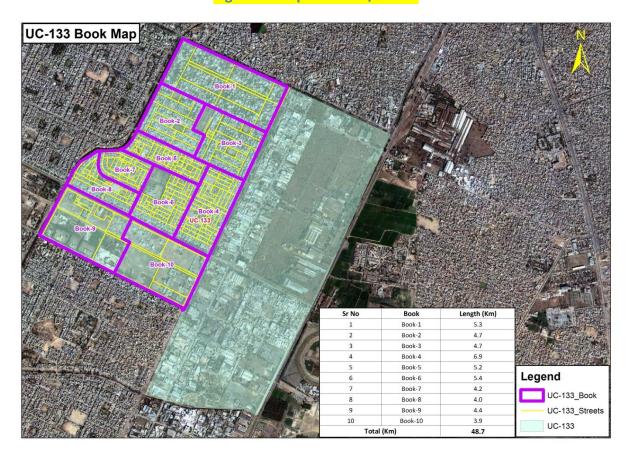
### 6 Human Resource

7 UC 133 has been divided in to 6 blocks, the areas of the blocks having main roads, commercial markets, public buildings (schools, colleges, mosques) are being swept on daily basis (details given in beat list). By keeping in mind the characteristics of the remaining block area (blocks didn't need sweeping on daily basis), so a weekly plan of cleanliness of blocks is being summarized in the following table.

S.N	NAME OF THE BLOCK	DAY
1	Block 1, Block 2	Monday
2	Block 3, Block 4	Tuesday
3	Block 5, Block 6	Wednesday
4	Block 1, Block 2	Thursday

5	Block 3, Block 4	Friday			
6	Block 5, Block 6	Saturday			
	Overall In-charge Manual Sweeping	M Asif 0333-4112031			

Figure 2: Map of Blocks/Teams



# **2nd Shift Operational Arrangement**

Manual Sweeping - Special Gang			
Shift In-charge	1		
Sanitary Workers	17		
Driver	1		

**Note:** for taking care of whole Zone-22, attending major roads, markets, 1139 complaints and to coordinate compactors and ensure containers collection.

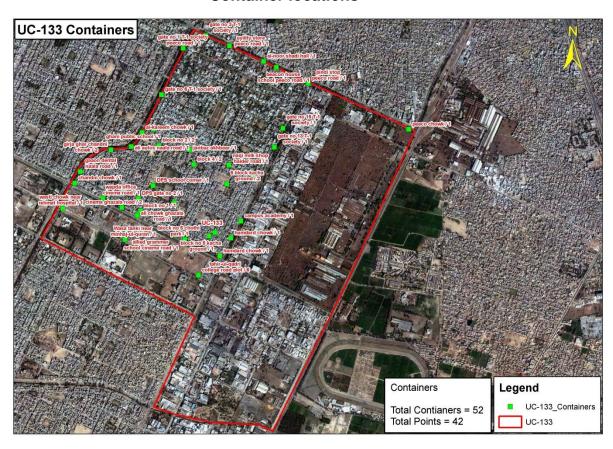
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### 9 Solid Waste Storage

# 9.1 Waste Storage Facility

- Currently 53 waste storage containers are placed at 45 different points.
- Storage capacity is 13.25 tons in one time lifting
- Lifting is operational in 3 times

### **Container locations**



# 9.2 Points of Containers

Sr. No.	Location	Number		
1	Blush face beauty saloon Alkarim chowk township	1		
2	725 A I Near alkarim chowk township	1		
3	MashaAllah nursery near nala road Town ship	1		
4	76 A I Nala road township			
5	2 A I Nala road township	1		
6	Peco road Opposite Masjid	1		
7	Opposite Utility Store Peco Road	1		
8	A I Society Township	1		
9	Pindi Stop Askari shop Peco road	1		
10	Pindi stop opposite HBL peco raod	1		
11	Jail road Near Peco Road	1		
12	Treet factory Peco road	1		
13	Main peco road bus stop Peco road	1		
14	Pindi stop Corner service road Peco road	1		
15	Near Rehman CNG Madre millat road	1		
16	Gate No 15 Madre millat road	1		
17	Gate No 13 Madre millat road	1		
18	Somi center Madre millat road	1		
19	Mohammadi Plaza Madre millat road	1		
20	Hamdard chowk near masjid Madre millat road	1		
21	Near Hamdard chowk Behind LDA office	1		
22	22 Minhaj ul quran University corner madre millat road			
23	Hamdard chowk, Madre millat road	4		
24	· · · · · · · · · · · · · · · · · · ·			
25	Tube well chowk ghazala road	1		
26	Ali chowk ghazala road	1		
27	shamshad chowk near ghazala road	2		
28	Near Cine star Cinema Township	1		
29	Wasti chowk township	1		
30	Nala road	1		
31	Girja Stop	2		
32	Nala Road	1		
33	518 Block 2 Near Al Karim chowk	1		
34	Near AyybiDwakhana Haider road	1		
35	Gate 9 A I Society Haider road	1		
36	Near Allied bank Haider road	1		
37	Zeeshan Bakery Township	1		
38	Gate 2 Haider road	1		
39	Block 6 Kacha ground	1		
40	Block 5 Kacha ground	1		

41	Gate 2 Block 3 near DPS Township	1			
42	42 Block 1 kacha ground				
43	Block 2 Near Farooqi masjid township	2			
44	DPS gate 1 township	1			
45	Block 2 govt high school township	2			
	Total	53			

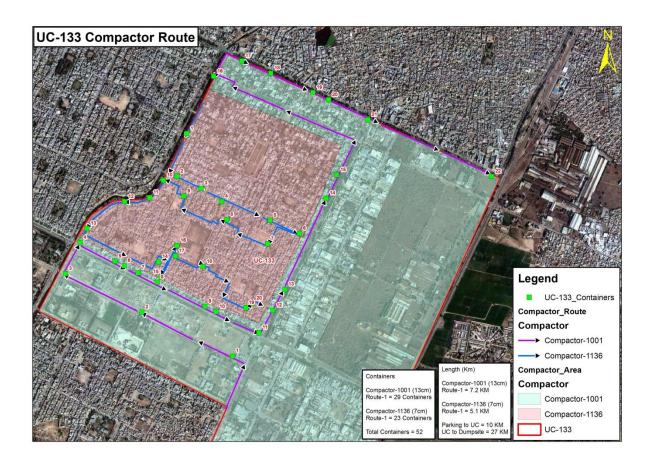
Overall In-charge Container Collection

M Asif 0333-4112031

## **Solid Waste Collection & Transportation**

### 9.3 Route for Compactor

Figure 3: Route for Compactor Vehicle (little variation possible)



### **COMPACTOR ROUTES WITH TIME AND MOTION STUDY**

UC & ZONE: 22, 133 COMPACTOR NUMBER:

SHIFT: 1<sup>ST</sup>

DRIVER NAME: Baba Akbar

CONTACT NUMBER: 0321-4162613

APPROXIMATE MILEAGE: DEISEL CONSUMED:

PER KILOMETER DIESEL CONSUMPTION: 18+20 litter

PER KII	PER KILOMETER DIESEL CONSUMPTION: 18+20 litter							
S.N LOCATION OF CONTAINERS N		NUMBER OF	TIME OF LIFTING					
		CONTAINERS						
1	Piko road to Awan chowk nala	5	8.00am to 7.00am					
2	Awan chowk nala to Alkarime market	1	8.10am to 8.00am					
3	Haider road to narsary shop	5	9.00am to 8.10am					
	Pindi shop Madar-e-milat road to telephone							
4	exchange	4	10.00am to 9.10am					
5	Wasati chowk to L.T.C . bus stop	5	11.00am to 10.00am					
6	Raidhi point Qaidari university	5	12.30pm to 11.15am					
7	Tamam main road open dhairy		1.50pm to12.30pm					
	TOTAL							

# 9.4 Staff Deployment for Compactor Vehicle

Zone-22								
SR.NO Driver Name Compu			Shift	Vehicle No.	e UC	Conta	ct No.	
1	Muhammad Akbar S/O Muhammad Hayat	HR.216		1ST	C-13- 1008	133	0321-4	162613
2	Jahangir Masih	HR.	670	1ST	MD-51	132	0315-4	249958
3	Amanat Masih S/O Laal Masih	HR.	751	1ST	C-13- 1029	1191 20	0305-4	716028
4	Sadeeq Masih S/O Sayd Masih	90	64	1ST	C-13- 1061	116	0321-4	275659
5	Khurram Shahzad S/O Muhammad Nazir	302	227	1ST	C-13- 1062	116	0321-4	588900
6	Waris Ali	HR.	741	1ST	C-13- 1067	132	0324-4	977517
7	Saleem Mukhtaar S/O Mukhtaar	13	748	1ST	C-13- 1085	120	0323-4	988212
8	Akbar Khan S/O Ayyub Khan		487	1ST	C-13- 1005	120	0306-4	660447
9	Naeem	HR.	842	1st	C-7- 1137	132	0305-4	043194
10	Khalid Hussain Butt S/O Ghulam Hussain	HR.	765	1ST	C-7- 1136	133	0300-4	975662
11	Nazaqat Ali S/O Rayasat Ali	252	229	1ST	MD.13	120	0343-4	907789
12	Rehman Syd. S/O Muhammad Syed	260	615	1ST	1082	132	0346-4	642047
13	Amanat Ali	HR.	455	1ST	MD.66	5 119	0312-4	357635
14	Kamran Niamat	298	881	1ST	MD.68	3 116	0322-4	643677
15	Imran Barkat		587	1ST	MD- 002	120	0300-4	926964
16	Muhammad Sharif	HR.	737	1ST	MD-23	3 133	0322-4	273850
17	Nasir	HR-	863	1st	Spare		0316-4	093814
	2nd shift							
1	Hameed	HR		.792	2nd	C-7- 1029	118-119- 120	0311- 6516412
2	Akram Ali S/O Hashmat	29		185	2nd	C-13- 1069	116	0307- 4799566
3	Muzammail Hussain S/O M.Na	awaz 13		547	2nd	C-13- 1085	120	0313- 8184111

### 10 Door To Door Waste Collection

# 10.1 System for D-T-D Waste Collection

- 1 Pickup for door to door waste collection
- Waste collected by pickup will be unloaded into nearby Compactor or transfer station.
- Compactors are also collecting waste if found in waste bags on road or in front of home or shop

Mini Dumper / Suzuki Pickup				
Block 1	6:00 am to 8:00 am	Block 2	8:00 am to 10:00 am	
Block 3	10:00 am to 11:00 am	Block 4	11:00 am to 12:30 pm	
Block 5	12:30 pm to 2:00 pm			

Block	Major Areas/ Mohalla's	
Block 1	Block 1 Sector A2	
Block 2	Block No. 2 Sector A2	
Block 3	Block No. 3 Sector A2	
Block 4	Block No. 4 Sector A2, Block No. 5 Sector A2	
Block 5	Block No. 6 Sector A2	