

**ÖZKARTALLAR CAMPAK JOINT VENTURE**

*Sikandriya workshop 2*



**Solid Waste Management  
Plan For  
Sabza Zar (UC-112)**

*By*

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Sikandriya workshop 2**

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## 1. Facts

SR.N	Description	
1	Phase	C
2	UC	112 –Sabza Zar
3	Area Manager / Shef OZPak	Javeed Iqbal/ Usman
4	Zonal Officer LWMC	Awais Butt
5	Population	49745
6	UC Area	4137204 m <sup>2</sup> (middle income)
7	Waste Generation (estimated)	32.33 tons/day

## 2. Operational Arrangements / Resources Deployed

### 2.1 1<sup>st</sup> Shift Arrangement – 6 AM to 2 PM

<b>Manual Sweeping</b>		
Sanitary Supervisors	5	
Sanitary Workers	74	
Wheelie Bins	12	
Hand Carts	18	
<b>Special Gang</b>		
Sanitary Workers	15	
Sanitary Supervisor	2	
Toyota Hilux	1	
<b>Note:</b> Special Gang solely on Shef / ZO's disposal to attend important complaints and to work for absent workers beats of the day		
<b>Centralize Gang</b>		
Sanitary worker	20	
Sanitary Supervisor	2	
Mini Bus	1	
<b>Note:</b> The centralize Gang is arranged to attend any problematic area. Centralize gang is also solely on shef / ZO'S disposal to attend important complaints and to work for absent workers beats of the day.		
<b>Containers Collection</b>		
Containers Placed	89	
Containers Points	31	
Compactors	C-1065	1 trip, approx. 8 to 10 tons
	C-1135	2 trips, (approx. 4 to 5 tons in each trip)
Drivers	2	
Helpers	4	
<b>D-T-D Collection</b>		
Mini Dumpers – Suzuki Pickup	1	MD-47
Driver	1	
Helper	1	
<b>Note:</b> Compactor also collecting waste if waste bags found on road or in front of home or shop		

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**2.2 2<sup>nd</sup> Shift Arrangement - 2 PM to 10 PM**

<b>Manual Sweeping - Special Gang</b>		
Shift In-charge	1	
Sanitary Workers	10	
Driver	1	
Toyota Hilux - 2013	1	
<b>Note:</b> for taking care of whole Zone-21, attending major roads, markets, 1139 complaints and to coordinate compactors and ensure containers collection.		
<b>Containers Collection</b>		
Compactors	1	C-1034, 1 trip (approx. 8 to 10 tons)
<b>Note:</b> attending 2 UC's 110 & 112		

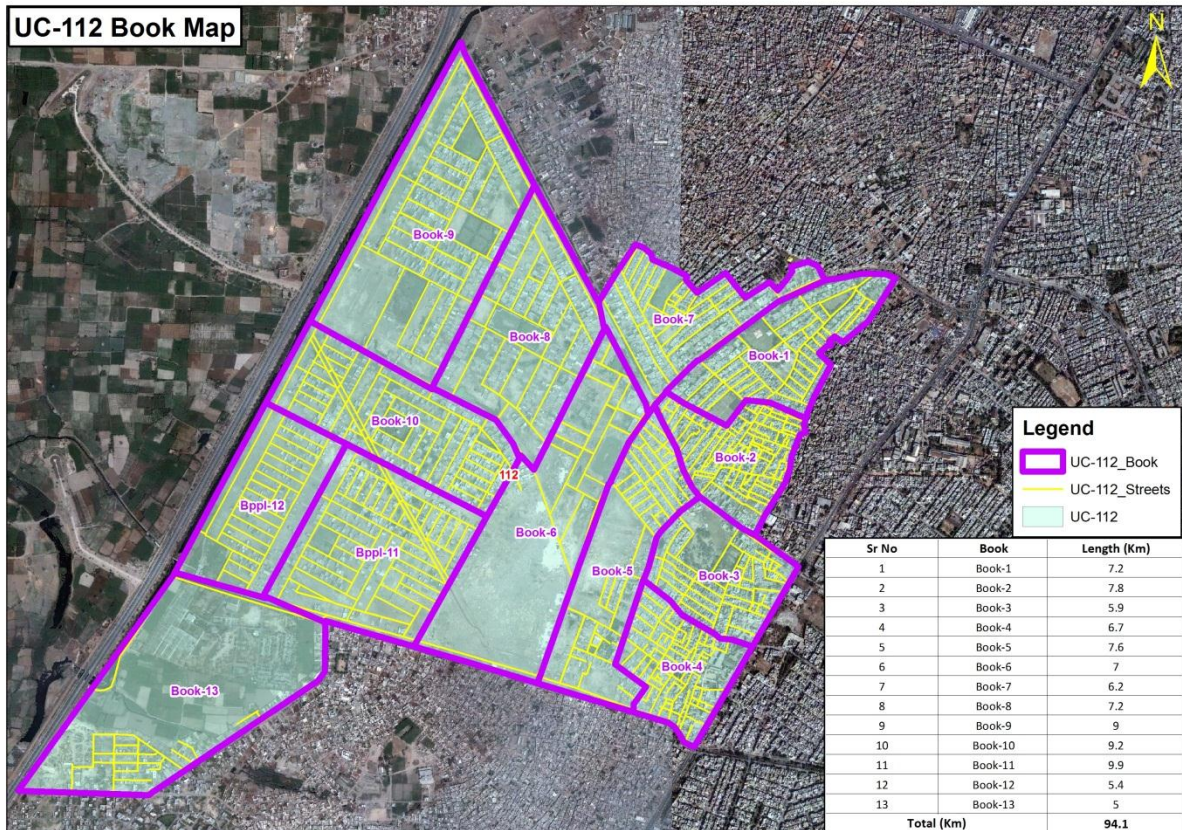
**2.3 3<sup>rd</sup> Shift Arrangement – 10 PM to 6 AM**

<b>Containers Collection</b>		
Compactors	1	C-1019, 1 trip (approx. 8 to 10 tons)
Driver	1	
Helper	2	
<b>Note:</b>		

### 3 Introduction

Union Council – 112 (Sabza Zar) is located in Allama Iqbal Town. Total area of the UC is 4137204 m<sup>2</sup> with population of 49745<sup>1</sup>. This area is predominantly middle income area with planned settlement.

Figure 1: Map of UC 112 Sabza Zar



### 4 Solid Waste Generation

Estimated solid waste generation is 32.33 tons per day @ waste generation rate of 0.65 kg/person/day.

### 5 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:

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

## **6 Street Sweeping and Waste Collection by Sanitary Workers**

### **6.1 Team Division**

Teams are divided according to equivalent sweeping length of the area which is as follows:

- 10 sanitary workers deployed in each Team and each sanitary worker has his own defined beat.
- 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

## **7 Solid Waste Storage**

### **7.1 Waste Storage Facility**

- Currently 89 waste storage containers are placed at 31 different points.
- Storage capacity is 22 tons in one time lifting
- Lifting is operational in 3 times

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**7.2 Existing Points of Containers**

<b>Sr. No.</b>	<b>Location</b>
1	Liaqat chowk
2	Service chowk motorway naala
3	PSO petrol pump liaqat chowk
4	Jamil town to bijli ghr
5	Jamil town to Lift side
6	Multan road Alfalah park
7	Pulli noon exchange multan road
8	Baraf khana multan road
9	Kamini town
10	Liaqat chowk to kharak
11	Liaqat chowk kharak lift side
12	Makkah chowk to babu sabu
13	F Block
14	K Block
15	P Block
16	N Block
17	E Block
18	G Block
19	B Block
20	Koonj pura
21	A Block
22	Shah fareed road A Block
23	Shah fareed chowk
24	Shah fareed qabrastan
25	Karam deen park
26	H block
27	Madni road Rasool park
28	C Block
29	Model bazar
30	Mahboob park
31	Hajwairi town







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**8.2 Staff Deployment for Compactor Vehicle**

<b>Conservancy Staff Zone-21</b>											
<b>Usman razaq (0321-4049043)</b>											
<b>Shift Supervisor = Waseem (0321-4803215)</b>				<b>Shift Supervisor = MEHMOOD ASHRAF (0313-4805842)</b>			<b>Shift Supervisor = ZAIN UL ABDIN (0313-6898748)</b>				
<b>1st shift</b>				<b>2nd shift</b>			<b>3rd shift</b>				
<b>UC</b>	<b>Vehicle No.</b>	<b>Driver Name &amp; Mobile</b>	<b>Name of Helpers</b>	<b>Vehicle No.</b>	<b>Driver Name &amp; Mobile</b>	<b>Name of Helpers</b>	<b>Vehicle No.</b>	<b>Driver Name &amp; Mobile</b>	<b>Name of Helpers</b>		
110	1063	M. Iqbal (0324-4892866)	Mukhtar	1063 (Cover all UC's)	Jaan Muhammad (0323-4896081)	Zafar Ghulam	1019 (Cover all UC's)	M. Yousif (0301-4647922)	Salamat		
			Shaukat			Arif Aslam					
	1131	Amjad Ali (0333-4059741)	Tariq Anayat			1065				Safdar Ali (0336-7860712)	Rafaqat
			Hashim s/o Laal								Shareef Gulam
111	1132	Abdul Rasheed (0344-4588809)	Sunny	1134	Waseem Imran (0323-8841521)	Anwar					
			Younis			Allah Ditta					
112	1065	Nasir ali (0344-6637757)	sunny	1034	Nasir ali (03446637757)	Anwar/salamat					
			salman								
	1135	Asif Mehmood (0323-8629348)	Nasir								
			Ghulam								
113	1133	Malik Shahid (0321-8874549)	Rasheed	1134	Same Driver	Same Helpers					
			Jabran								
	1134	Iftikhar Ahmad (0321-4765477)	Shan								
			Shareef								
114	1066	Aftab Alam (0324-4458940)	Marakas								
			Shehzad								
117	1065	Nasir Ali (0323-8040230)	Bashir	1065	Same Driver	Same Helpers					
			Shakeel								
All	1084	Shahid Ali (0333-4949699)	Shehbaz								
			Amanat								

## **9 Door To Door Waste Collection**

### **9.1 Existing System for D-T-D Waste Collection**

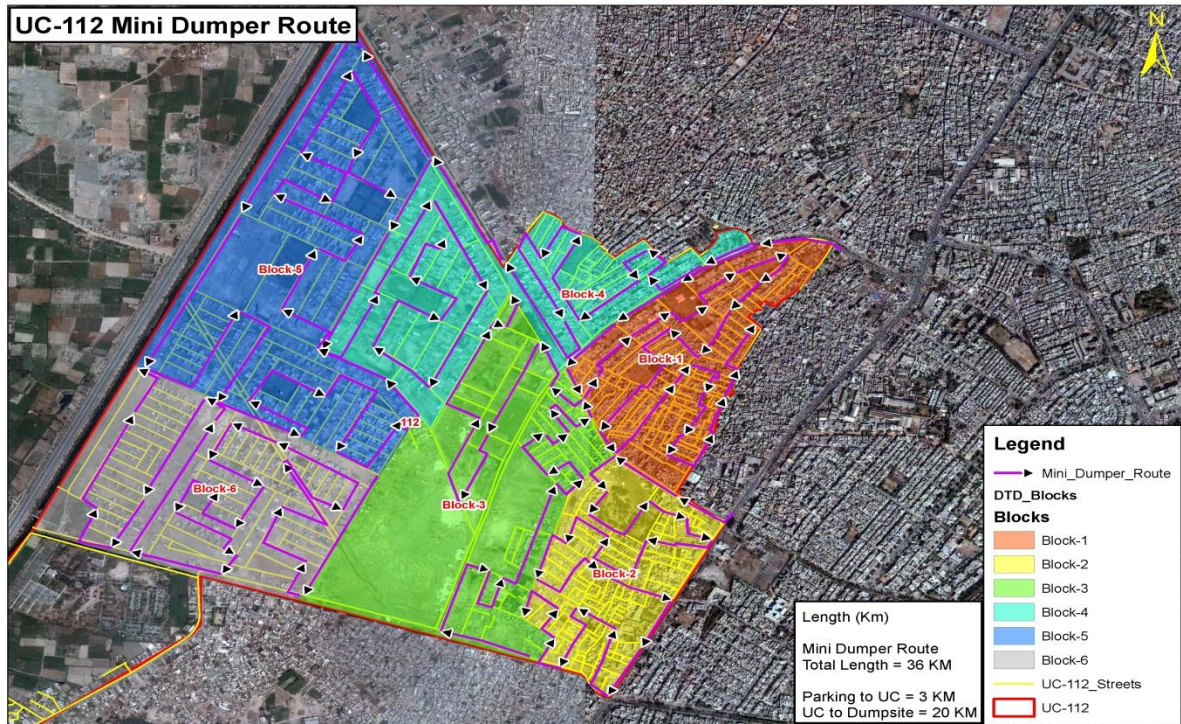
- 1 Pickup for door to door waste collection
- Waste collected by pickup will be unloaded into nearby Compactor or transfer station.
- Compactors are also collecting waste if found in waste bags on road or in front of home or shop

<b>UC 112-MD-47</b>		
<b>Blocks</b>	<b>Major Areas/ Mohalla's</b>	<b>Timings</b>
<b>Block1</b>	A Block Sabzazar	<b>8:00 am to 10:00 am</b>
	Said Pur	
	Gunj shaker	
	Karam Din Park	
	Mehboob Park	
<b>Block 2</b>	G Block Sabzazar	<b>10:30 am to 1:30 pm</b>
	H,H1 Block Sabzazar	
	Qazi Town	
	Rasool Park	
	Madni Road	
<b>Block 3</b>	B Block	<b>2:30 pm to 4:30 pm</b>
	C Block	
	E Block Sabzazar	
	F Block Sabzazar	
<b>Block 4</b>	M Block Sabzazar	<b>4:45 pm to 6:00 pm</b>
	Q Block Sabzazar	
	K Block Sabzazar	
<b>Block 5</b>	J Block Sabzazar	<b>6:15 pm to 8:30 pm</b>
	L Block Sabzazar	
	M Block Sabzazar	
	N Block Sabzazar	





## MINI DUMPER ROUTE MAP



### 10 2nd Shift Operational Arrangement

Manual Sweeping - Special Gang		
Shift In-charge	1	
Sanitary Workers	15	
Driver	1	
Toyota Hilux - 2013	1	
<b>Note:</b> for taking care of whole Zone-21, attending major roads, markets, 1139 complaints and to coordinate compactors and ensure containers collection.		
Containers Collection		
Compactors	1	C-1034, 1 trip (approx. 8 to 10 tons)
Note: attending 2 UC's 110 & 112		

### 11 3rd Shift Operational Arrangement

Containers Collection		
Compactors	1	C-1019, 1 trip (approx. 8 to 10 tons)
Driver	1	
Helper	2	
Note:		



## 12 Mjaor Areas

- Sabaz zar main boulevard road
- Kharak Nala
- Shah fareed Road
- Makah Chowk
- Said Purr
- Qazi Town

## 13 Problematic Areas

### Sabza zar Open Plots:

- An open plot in UC 112 is major hurdle in cleaning of sabzazar society.

#### Observation:

- Most of the open plots are full of solid waste.



#### Recommendation:

- A group of workers in the form of gang must be formed to attend these open plots on regular bases.

#### Said Purr:

This is a rural area of uc 112.

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**Observation:**

- Poor sweeping was observed in Said purr and surrounding areas.



**Recommendation:**

- Sanitary worker should be deployed permanently in these areas.

**14 Open Plots:**

Almost in all UC's of zone open plots are exist. These open plots are major hurdle in cleaning operation. To maintain the cleaning of open plots is quiet hard because of the immature attitude of residence and walking people (non-residence).

**Solid waste types:**

Different solid waste types are observed in these open plots which can be categorized as follow.

- Inorganic
- Organic
- C & D waste
- Green Waste
- Animal waste

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**Measurements:**

To maintain the cleaning of open plots an operational strategy has been developed and also **door to door waste** collection has been focused more to make open plots cleaning operation more effective.

**Group activity:**

15-20 people group activity has arranged on regular basis to cover-up the cleaning of open plot. Machinery is also used to clean up where an open plot cannot be handled with manual sweeping.



**15 Public Awareness**

- Distribution of leaflets along-with bags distribution has been done as per contract.
- Announcement of waste collection when pickup will move in the area
- Involvement of public representatives in mass awareness campaign

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