

ÖZKARTALLAR CAMPAK JOINT VENTURE

Sikandriya workshop 2



**Solid Waste Management
Plan For
Bahawalpur House
(UC-93)**

By

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1. Facts

SR.N	Description	
1	Phase	B
2	UC	93 – Bahawalpur House
3	Area Manager / Shef OZPak	Muhammad Aamir Saleem
4	Zonal Officer LWMC	M. Nadeem
5	Population	47843
6	UC Area	1545300 m ² (middle income)
7	Waste Generation (estimated)	31.1 @.65 kg/person/day

2. Operational Arrangements / Resources Deployed

2.1 1st Shift Arrangement – 6 AM to 2 PM

Manual Sweeping		
Sanitary Supervisors	2	
Sanitary Workers	53	
Wheelie Bins	15	
Hand Carts	29	
Special Gang		
Sanitary Workers	20	
Sanitary Supervisor	1	
Note: Special Gang solely on Shef / ZO's disposal to attend important complaints and to work for absent workers beats of the day		
Containers Collection		
Containers Placed	87	
Containers Points	40	
Compactors	C-1099	1 trip, approx. 10 tons
	C-1032	1 trip, approx. 10 tons
Drivers	2	

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Helpers	4	
D-T-D Collection		
Mini Dumpers –	1	MD-37
Driver	1	
Helper	1	
Note: Compactor also collecting waste if waste bags found on road or in front of home or shop		

2.2 2nd Shift Arrangement - 2 PM to 10 PM

Manual Sweeping - Special Gang		
Shift In-charge	1	
Sanitary Workers	16	
Note: for taking care of whole Zone-19, attending major roads, markets, 1139 complaints and to coordinate compactors and ensure containers collection.		
Containers Collection		
Compactors	1	C-1122, 2 trips (approx. 4 to 5 tons in each trip)
Note: attending 2 UC's 100 & 101		

3 Introduction

Union Council – 93 (Bahawalpur House) is located in Samanabad Town. Total area of the UC is 1545300 m² with population of 47843¹. This area is predominantly middle income area with planned settlement.

¹ Punjab Development Statistics – 2011, Bureau of Statistics, Govt. of the Punjab

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Figure 1: Map of UC 93



4 Solid Waste Generation

Estimated solid waste generation is 31.1 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:

6 Street Sweeping and Waste Collection by Sanitary Workers

6.1 Team Division

Teams are divided according to equivalent sweeping length of the area.

- 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

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7 Solid Waste Storage

7.1 Waste Storage Facility

- Currently 87 waste storage containers are placed at 40 different points.
- Storage capacity is 23 tons in one time lifting
- Lifting is operational in 5 time

7.2 Existing Points of Containers

Sr. No.	Container Location
1	Multan road choburji quarters gate
2	Multan road poonch staff colony gate
3	Multan road seemab centre
4	Multan road choburji chock
5	Bahawalpur road Eid-gah
6	Bahawalpur road darbar baba fairoz-din
7	Bahawalpur road darbar wasif ali wasif
8	Fairozpur road mazang chungi chowk
9	Fairozpur road near shell petrol pump
10	Fairozpur road PSO pump
11	Fairozpur road near ganda nallah
12	Poonch road islamia park near college
13	Poonch road main islamia park Ahmad shadi hall
14	Poonch road nalky wala chowk
15	Poonch road near K-B burger shop
16	Poonch road kamal street
17	Poonch road Aslam plaza
18	Poonch road islamia park gol chaker salman street
19	Poonch road UC 93 office
20	Areya nager islamia park
21	New Islamia park, near gourmay bakery
22	Faseeh road near mosque
23	Fasih road near Dr. Riaz
24	Fasih road near Nazar road
25	Fasih road near kamal street graveyard
26	Fasih road near darbar mai malangi
27	Haji muhabbat ali dera near graveyard
28	Poonch house colony

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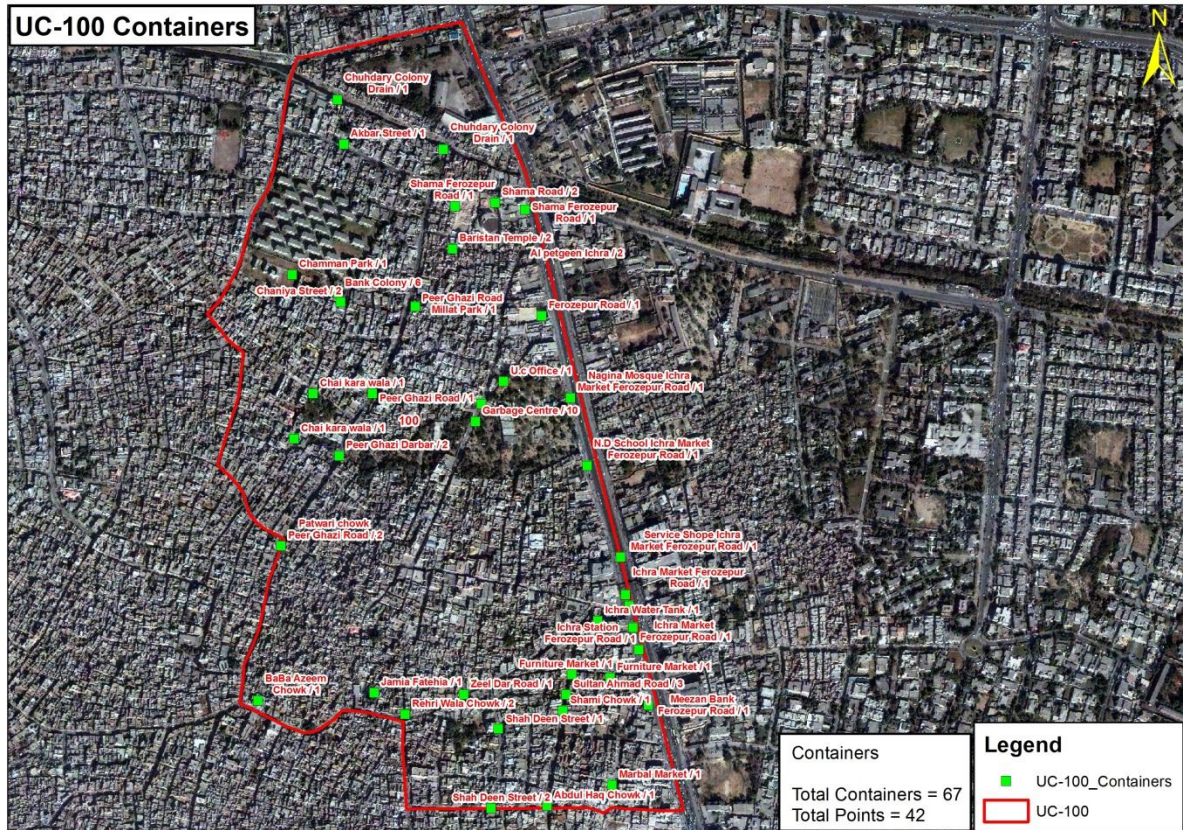
29	Choburji quarters multan road near water tanki
30	Fateh sher road mai, near batti chowk
31	Fateh sher road chowk gul beghum
32	Fateh sher road near graveyard
33	Fateh sher road near syed mehmoood ali akhtar house
34	Fateh sher road government primary school
35	Fateh sher road near keeker tree
36	Fateh sher road near ganda nallah
37	Mamon nishan park near tube well
38	Graveyard Aslam khan near tubewell
39	Graveyard darbar syed sardar ali
40	GOR-II

Existing Points of Containers

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8 Solid Waste Collection & Transportation

8.1 Route for Compactor



8.2 Staff Deployment for Compactor Vehicle

Conservancy Staff Zone-19														
Deputy Manager = Muhammad Aamir Saleem (0321-4908538)														
Supervisor = Mehboob (0323-4297858)				Supervisor = Mehboob (0323-4297858)			Supervisor = Awais (0321-4720521)							
1st shift				2nd shift			3rd shift							
UC	Vehicle No.	Driver Name & Mobile	Helpers	Vehicle No.	Driver Name & Mobile	Helpers	Vehicle No.	Driver Name & Mobile	Helpers					
93	1032	Munir Masih (0302-4788218)	Waris Qaiser	1122	Nadeem Sidique (0315-4398493)	Amjad Basheer	1020	Khalid Mehmood (0333-4559192)	Shamoon					
	1099	Muhammad Amir (0335-6756900)	Riaz Nazir Kamran Yousuf			Zahid Sardar								
100	1053	Farhan Ali (0322-4773520)	Karamat Taj											
	1116	Aslam Kherat	Faryad Ghani											

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		(0307-4406605)	Abid Liaqat				
101	1025	Fazal Rehman (0344-9034725)	Pervaiz Danial	1116	Faisal Masih (0322-4349341)	Qaisar	Nasir
			Shehzad Sadiq				
	1110	Rana Iffikhar (0323-4646180)	Karamat Hussain				
			Chama Bagh				
102	1044	Zulfiqar Ali (0323-4317638)	Sunny Miraj	1020	Mubbarik Ali (0311-4311378)	Francis	
			Jani Ashiq				
	1122	Nadeem Ahmed (0310-4197259)	Shahid Pitras				
			Majid Riaz				
105	1039	Syed Ubaid (0336-6285851)	Waris Ramzan	1071	Habib Ahmad (0331-4363199)	Aslam	
			Iqbal Jeeta				
	1071	Muhammad Afzal (0302-2600021)	Amjad				
			Shafiq Yunas				
106	1023	M. Rafiq (0300-4915657)	Nasir Dari	1071	Habib Ahmad (0331-4363199)	Aslam	
			Waseem Pervaiz				
	1052	M. Ashraf (0308-4703971)	Naeem Nazar				
			Salamat Veru				
Extra Vehicles	1020						
	1118						
	1071						

9 Door To Door Waste Collection

9.1 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

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UC-93 -- MD-37		
Area	Streets Name	Timings
Abdul jabbar Street	4 Street Attached	6 AM - 8 AM
Aslam Khan Street	2 Street Attached	
Bagh Gull Begum Street	Street No 18	8 AM - 11 AM
Niamat Chowk New Islamia Park	3 Street Attached	
New Islamia Park	12 Street Attached	11 AM - 1 PM
Arjun Street	5 Street Attached	

10 2nd Shift Operational Arrangement

Manual Sweeping - Special Gang		
Shift In-charge	1	
Sanitary Workers	16	
Note: for taking care of whole Zone-19, attending major roads, markets, 1139 complaints and to coordinate compactors and ensure containers collection.		
Containers Collection		
Compactors	1	C-1122, 1 trip (approx. 8 to 10 tons)
Note: attending 2 UC's 100 & 101		

11 Major Areas

- Mohammadi Street
- Aslam Khan Road
- Gulbagh Begum
- Haji Mohabbat Ali Plot
- Bilal Street Ganda Nala
- Toya wala Elawa

Observations:

- Animal waste.
- Solid waste around the area was observed.
- Open plots full of solid waste

Recommendations:

- Loader dumper must be deployed at river side area for open plots clearance
- Gang activity should be accelerated to clean open heaps.

12 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.

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

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.

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Group activity:

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

13 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