

ÖZKARTALLAR CAMPAK JOINT VENTURE

Sikandriya workshop 2



**Solid Waste Management
Plan For
Shamnagar
(UC-87)**

By

Muhammad Noman

Deputy Manager Operations

Özkartallar Campak Joint Venture
Sikandriya workshop 2

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1. Facts

SR.N	Description	
1	Phase	B
2	UC	87 –Sham Nagar
3	Area Deputy Manager	Muhammad Noman
4	Zonal Officer LWMC	Jahanzaib Bhatti
5	Population	65980
6	UC Area	1621364m ² (middle income)
7	Waste Generation (estimated)	42.8 Tons/day

2. Operational Arrangements / Resources Deployed

2.1 1st Shift Arrangement – 6 AM to 2 PM

Manual Sweeping		
Sanitary Supervisors	3	
Sanitary Workers	59	
Wheelie Bins	12	
Hand Carts	18	
Special Gang		
Sanitary Workers	17	
Sanitary Supervisor	1	
Note: Special Gang solely on Deputy manager / ZO's disposal to attend important complaints and to work for absent workers beats of the day		
Containers Collection		
Containers Placed	61	
Containers Points	34	
Compactors	C13-1046	
	C13-1059	
Drivers	2	
Helpers	4	
D-T-D Collection		
Mini Dumpers – Suzuki Pickup	1	MD-60
Driver	1	
Helper	1	
Note: Compactor also collecting waste if waste bags found on road or in front of home or shop		

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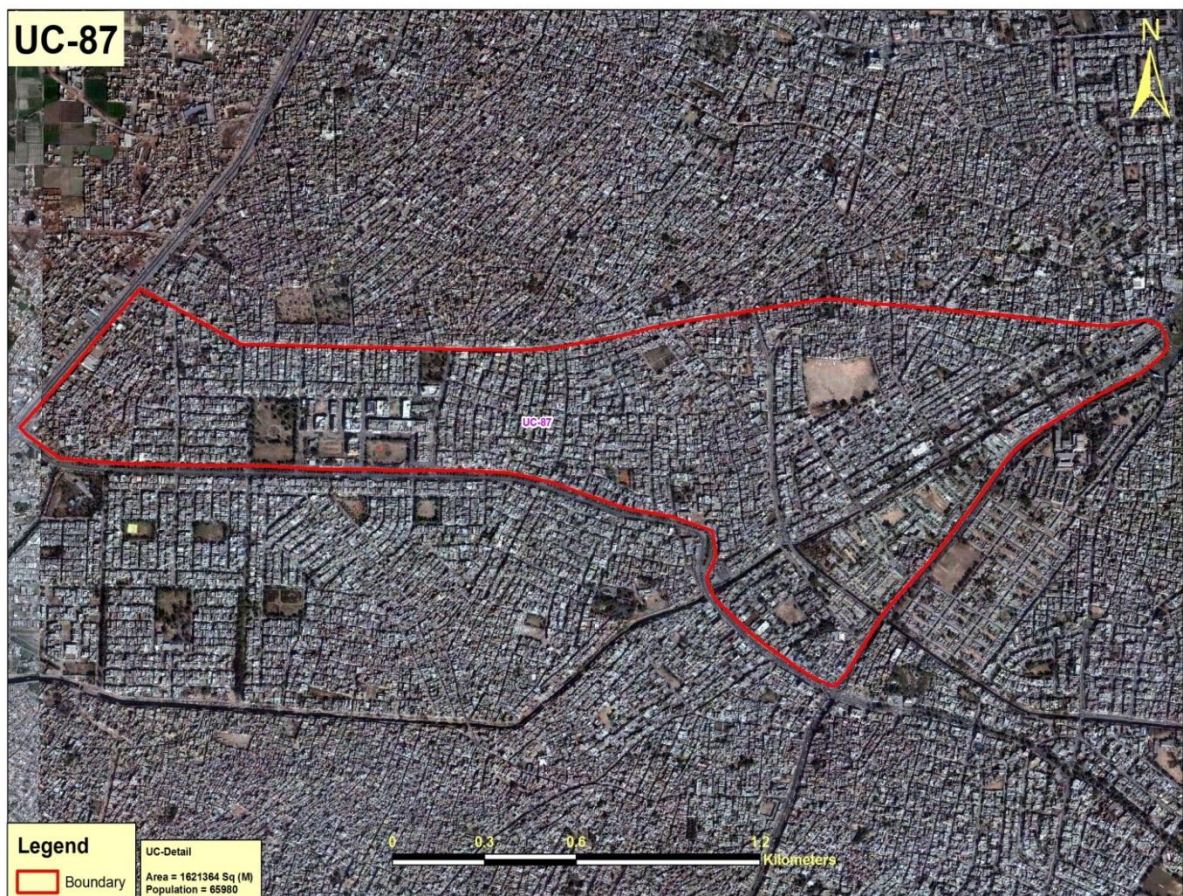
2.2 2nd Shift Arrangement - 2 PM to 10 PM

Manual Sweeping - Special Gang		
Shift In-charge	1	
Sanitary Workers	28	
Note: for taking care of whole Zone-18, attending major roads, markets, 1139 complaints and to coordinate compactors and ensure containers collection.		
Containers Collection		
Compactors	1	C-1021, 1 trip (approx. 8 to 10 tons)
Note: attending 2 UC's 84 & 87		

3 Introduction

4 Union Council – 87 (Sham Nagar) is located in Samanabad Town. Total area of the UC is 1621364m² with population of 65980¹. This area is predominantly middle income area with planned settlement.

5 Figure 1: Map of UC 87



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

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4 Solid Waste Generation

Estimated solid waste generation is 42.8 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

a. 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

7 Solid Waste Storage

a. Waste Storage Facility

- Currently 61 waste storage containers are placed at 34 different points.
- Storage capacity is 19 tons in one time lifting
- Lifting is operational in 2 times

Existing Points of Containers

Sr. No.	Container Location	No. of Containers
1	WASA mor cut	1
2	Sandha bhatteyan plot Gulshan-e-ravi	1
3	Sandha bhatteyan service station	1
4	Sandha bhatteyan plot	3
5	Bilal colony	1
6	Football ground	2

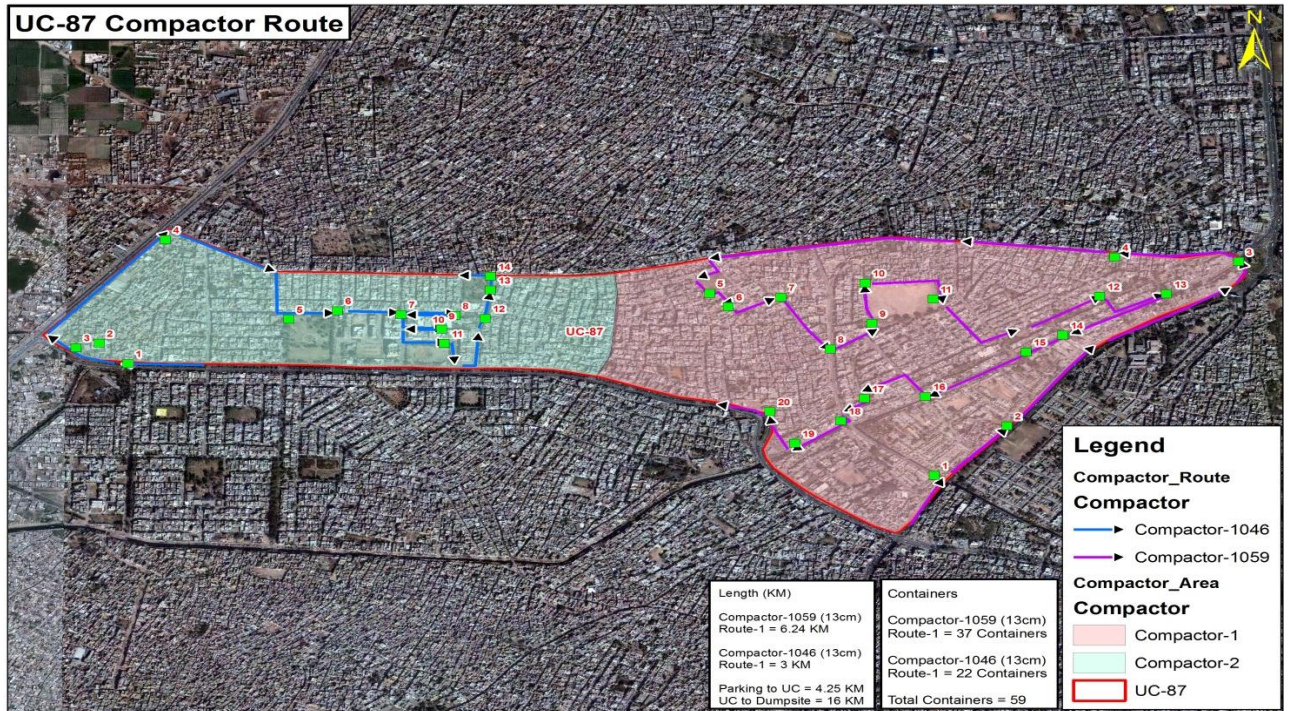
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7	Laal school E block	1
8	E block latreen	2
9	E block moon market Pizza hut	1
10	Masjid Ya Rasool Allah telephone exchange	1
11	Masjid Ya rasool Allah park	1
12	Masjid ya Rasool Allah, Sardar fish shop	2
13	Moon Market park	5
14	Faisal Bank moon market	1
15	Moon Market andheri gali	2
16	Main Gulshan-e-ravi, shirt & Tie	1
17	Ganda Nallah, grid station	1
18	Ganda Nallah joray pull	1
19	Ganda Nallah Multan road	1
20	Mandir chunni laal	2
21	Choburji gool chakerr	1
22	Ganda nallah green building	5
23	Ganda nallah green building	2
24	Ganda nallah green building Rafel ranch	6
25	Ganda nallah PND colony	1
26	Rehmat garden	1
27	Shaam nagar road	1
28	MAO college ground	1
29	Hassan chowk	1
30	MAO college ground	4
31	MAO college mai haseena	3
32	Allahdua road	1
33	B block bhola	1
34	Qarrazi park	2
	Total containers	61

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8 Solid Waste Collection & Transportation

a. Route for Compactor



b. Staff Deployment for Compactor Vehicle

Conservancy Staff Zone-18									
Muhammad Noman (0300-5001056)									
Supervisor = Ijaz-u-Din (0321-4243018 , 0312-7557534)				Supervisor = Ali			Supervisor =		
1st shift				2nd shift			3rd shift		
UC	Compactor	Driver Name & Mobile	Helpers	Vehicle No.	Driver Name & Mobile	Helpers	Vehicle No.	Name of Driver & Mobile	Helpers
84	1017	Qaiser Masih (03014141911)	Riaz Rafique	1021 All Uc's	Ishfaq	Aslam			
87	1046	M. Yousaf (0321-4563896)	Khawar Shamoon			Nazir Nadeem			

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	1059	Javed (0324-4706079)	Safdar			
			Arif			
88	1112	Imanual (0306-6049554)	Bashir	1112 All Uc's	Chana Masih (0324-4929902)	Nil
			Arif			Nil
89	1038	Malik Murtaza (0333-4800363)	Naeem			
			Imran			
90	1035	Irfan Sultan (03224133648)	Robin			Nil
			Karamat			
91	1106	M. Tufail (0300-8134441)	Yousaf	1130 All Uc's	Asad Sindho (03134429902)	Nil
			Latit			
92	1022	Akbar (0300-4287854)	Abbas			
			Sharfat			
All UC's Main Roads	1130	Tariq Ali	James	1093	Imran Altaf	Riaz
			Allaudin			
	1070	Francies (0323-4719055)	Rafiuqe			Sadiq
			Pervaiz			
Extra Vehicles	1093					Jeera Jalal
	1021					
Extra Drivers		Shafiq Tahir		Extra Drivers	SunnyAnwar	
		Asif Munir				

9 Door To Door Waste Collection

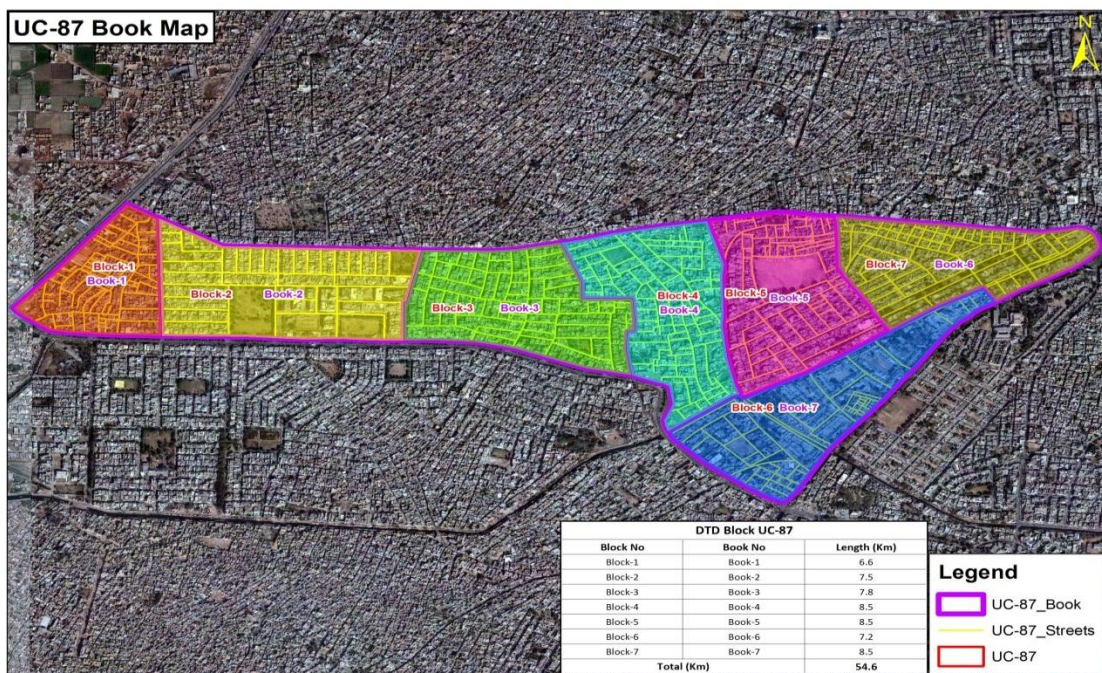
a. System for D-T-D Waste Collection

- 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

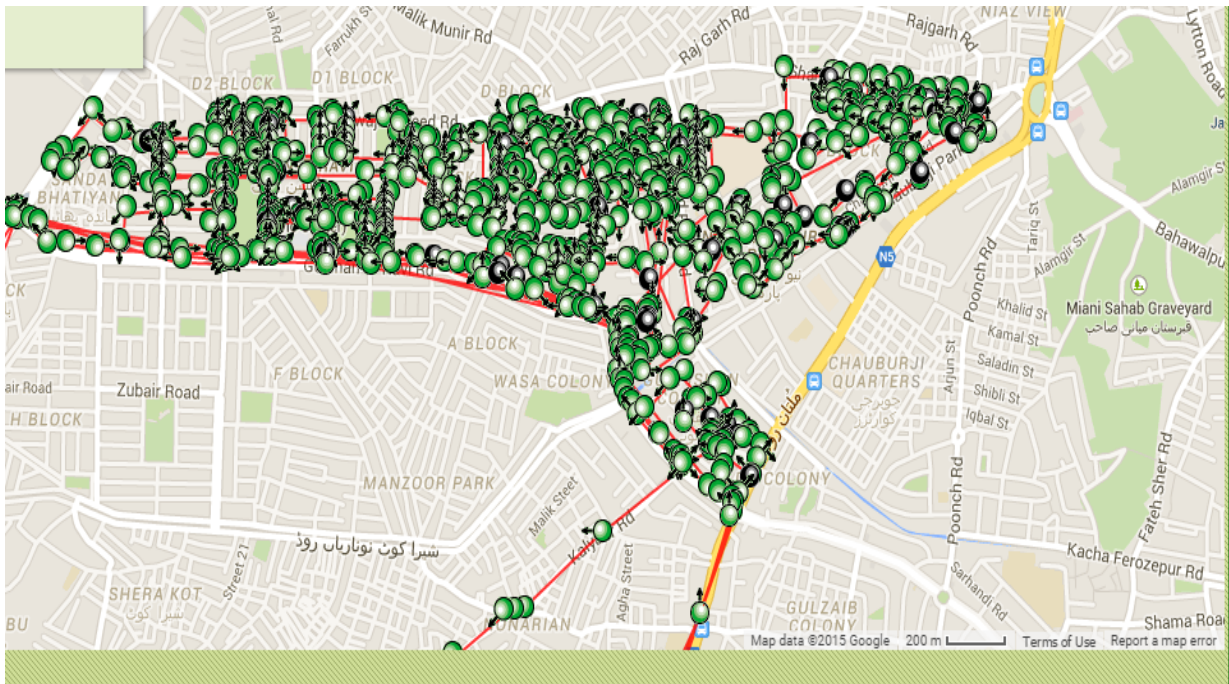
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Block	Major Areas/ Mohalla's	Timings
Block 1	Ring road link streets	6:00 am to 8:00 am
	Sanda Bhateyan	
	Ramp area	
	E Block	
Block 2	E block Gulshan Ravi	8:00 am to 11:00 am
	Moon Market	
	Sunday bazar area	
Block 3	B block Gulshan ravi	11:00 am to 12:00 pm
	Gadaafi Park	
	Fisheries	
Block 4	Shamnagar	12:00 pm to 1:00 pm
	Mao college ground	
	A block Gulshan ravi	
Block 5	C block Gulshan Ravi	1:00 pm to 2:00 pm
	A block Choburji Park	
	Rehmat Garden	

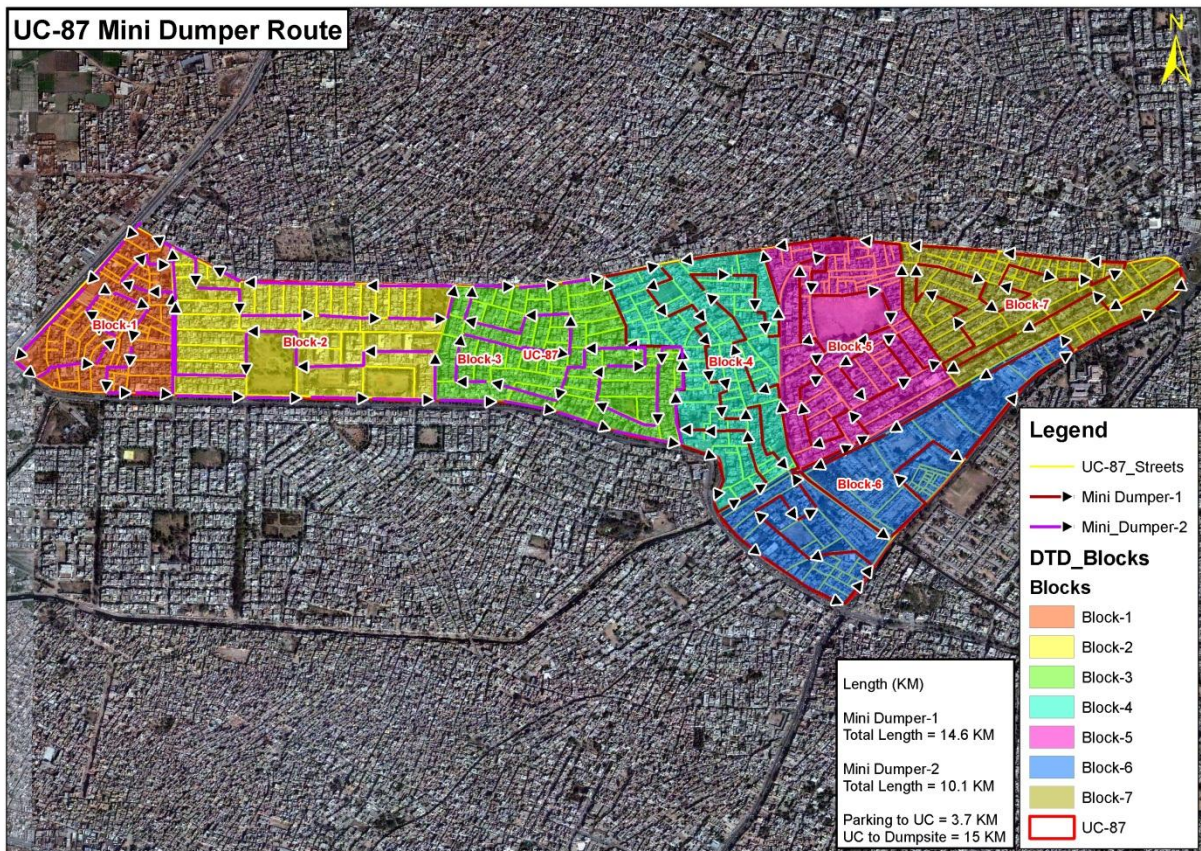
DTD Blocks Map



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DTD ROUTE MAP



Mini Dumper Route Map



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10 2nd Shift Operational Arrangement

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Shift In-charge	1	
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Note: for taking care of whole Zone-18, attending major roads, markets, 1139 complaints and to coordinate compactors and ensure containers collection.		
Containers Collection		
Compactors	1	C-1021, 1 trip (approx. 8 to 10 tons)
Note: attending 2 UC's 84 & 87		

11 Major Areas

- Moon Market
- E Block Gulshan Ravi
- Shamnagar Road
- Khawaja Fareed Road
- Choburji Park
- Grid Station

12 Problematic Areas

MAO College Ground

MAO college ground is one of main problematic area of UC 87.

Observations:

- Littering of waste
- Containers overflow due to Donkey Carts

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Recommendations:

- Donkey Carts are restricted to waste enclosure.
- Ensuring zero waste around containers.



13 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

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 plots.... Machinery is also used to clean up where an open plot cannot be handled with manual sweeping.

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14 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