

ÖZKARTALLAR CAMPAK JOINT VENTURE

**Solid Waste
Management Plan for
Gulshan Iqbal (UC-
108)**

2015

By:

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5TH FLOOR, SHAHEEN COMPLEX, EGERTON ROAD, LAHORE

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Özkartallar Campak Joint Venture

1. Facts

SR.N	Description	
1	Phase	C
2	UC	108- Gulshan Iqbal
3	Deputy Manager Operations	M. Ali Saleem
4	Zonal Officer LWMC	Javid Gondal
5	Population	68718
6	UC Area	2115110 m ² (middle income)
7	Waste Generation (estimated)	44.66 kg/person/day

2. Operational Arrangements / Resources Deployed

2.1 1st Shift Arrangement – 6 AM to 2 PM

Manual Sweeping		
Sanitary Supervisors	3	
Sanitary Workers	44	
Wheelie Bins	5	
Hand Carts	26	
Special Gang		
Sanitary Workers	33	
Sanitary Supervisor	1	
Note: Special Gang solely on Deputy Manager disposal to attend important complaints and to work for absent workers beats of the day		
Containers Collection		
Containers Placed	61	
Containers Points	35	
Compactors	C-1036	1 trip, approx. 10 tons
	C-1043	1 trip, approx. 10 tons
Drivers	2	
Helpers	4	
D-T-D Collection		
Mini Dumpers – Suzuki Pickup	1	MD-42
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 Incharge	1	
Sanitary Workers	4	
Note: for taking care of whole UC-108, attending major roads, markets, 1139 complaints and to coordinate compactors and ensure containers collection.		
Containers Collection		
Compactors	1	C-1098, 1 trip (approx. 8 to 10 tons)
Note: attending UC 108		

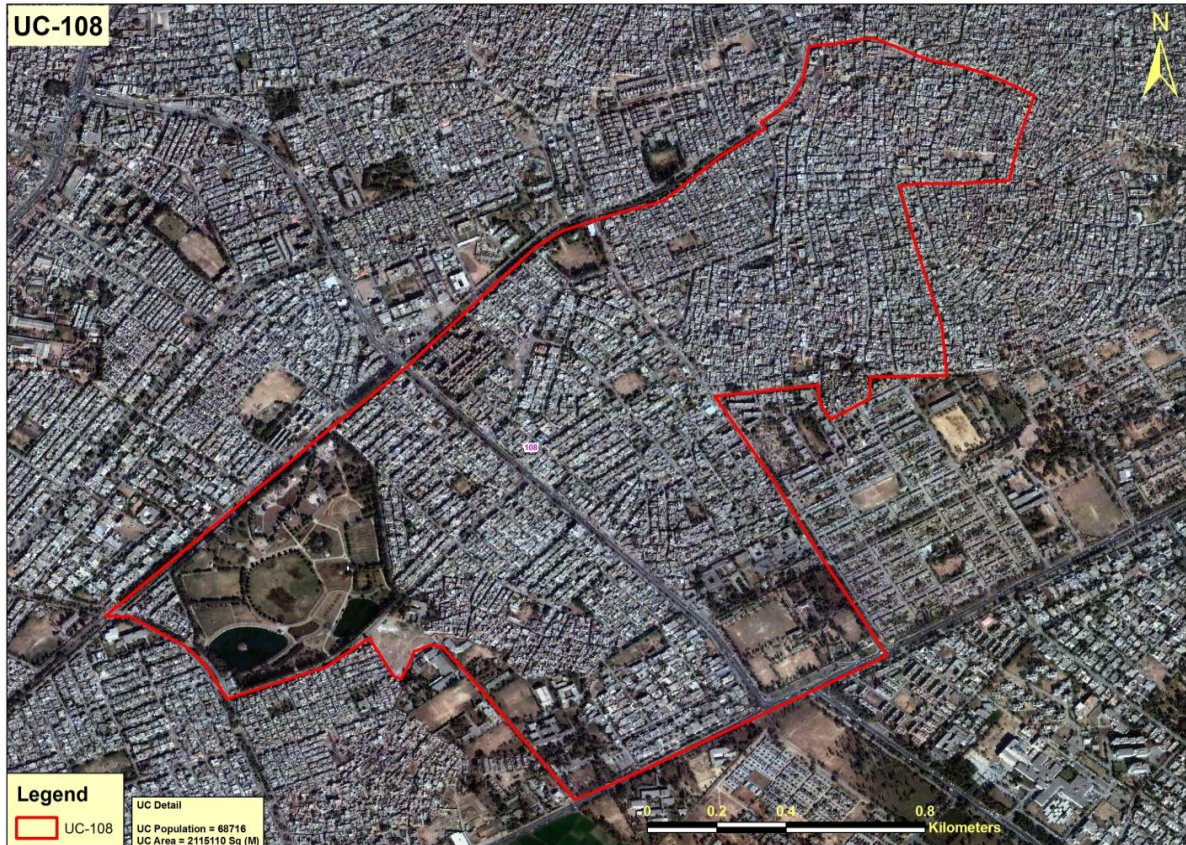
2.3 3rd Shift Arrangement – 10 PM to 6 AM

Containers Collection		
Compactors	1	C-1019, 1 trip (approx. 8 to 10 tons)
Driver	1	
Helper	2	
Note: Attending Main Roads of Zone-20		

3 Introduction

Union Council – 108 (Gulshan Iqbal) is located in Samanabad Town. Total area of the UC is 2115110 m² with population of 68718¹. This area is predominantly middle income area with planned settlement.

Figure 1: Map of UC 108



4 Solid Waste Generation

Estimated solid waste generation is 44.66 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:

¹ 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:

Teams/Block	Street Length (m)	Length per Worker (m)
1	6900	1380
2	12900	1433
3	17100	1425
4	17400	1450
5	9300	1550
Total	63600	Avg. (1447)

- Maximum 12 sanitary workers deployed in 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

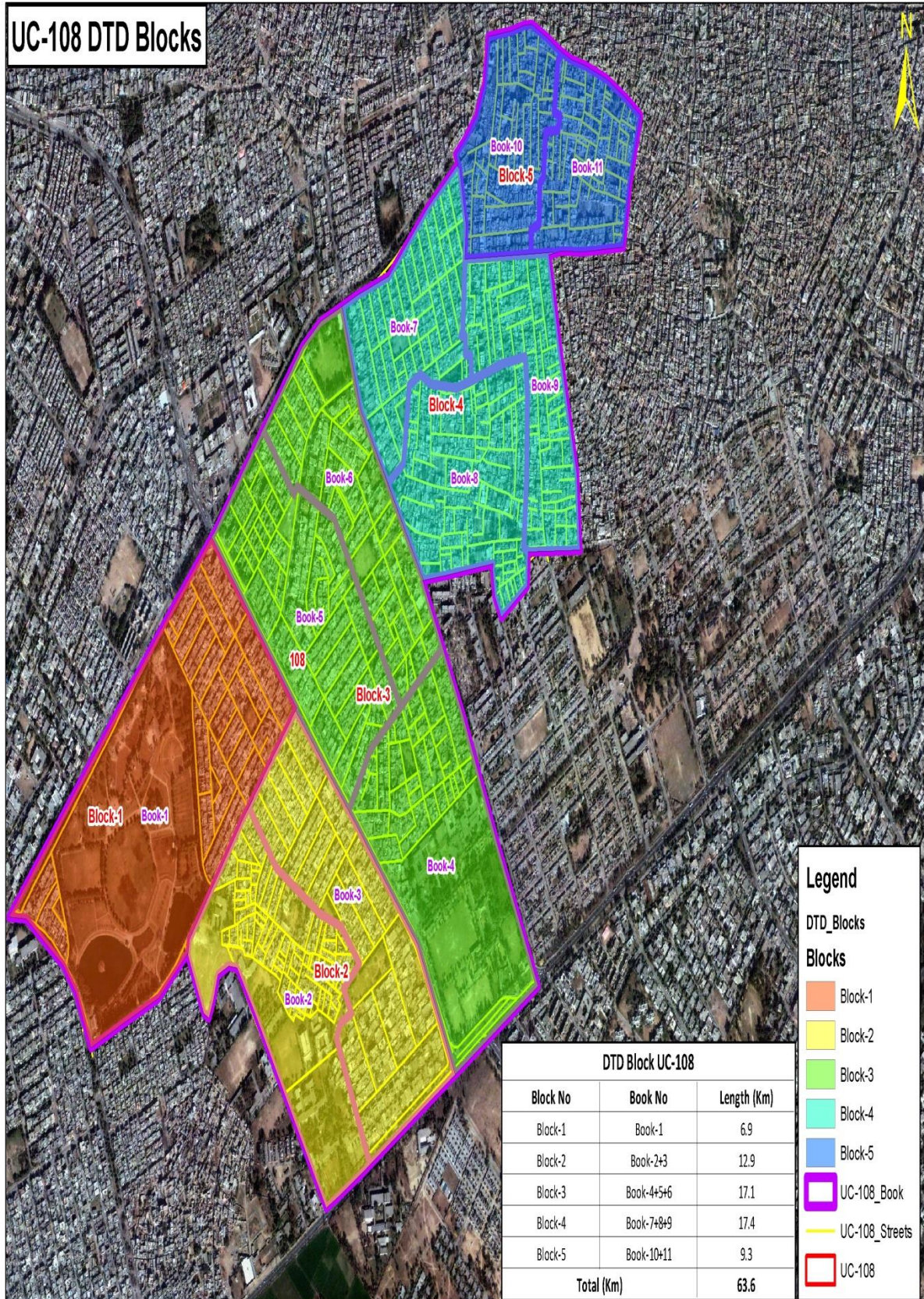
7 Human Resource

Teams	Supervisor/Sargent	Sanitary workers
1	Sargent 1	5
2	Sargent 2	8
3	Sargent 3	12
4	Sargent 4	12
5	Sargent 5	7
Total	4	44

Overall In-Charge Manual Sweeping	JOHAR AZAM (0313-6021341)
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Figure 2: Map of System Blocks/Teams

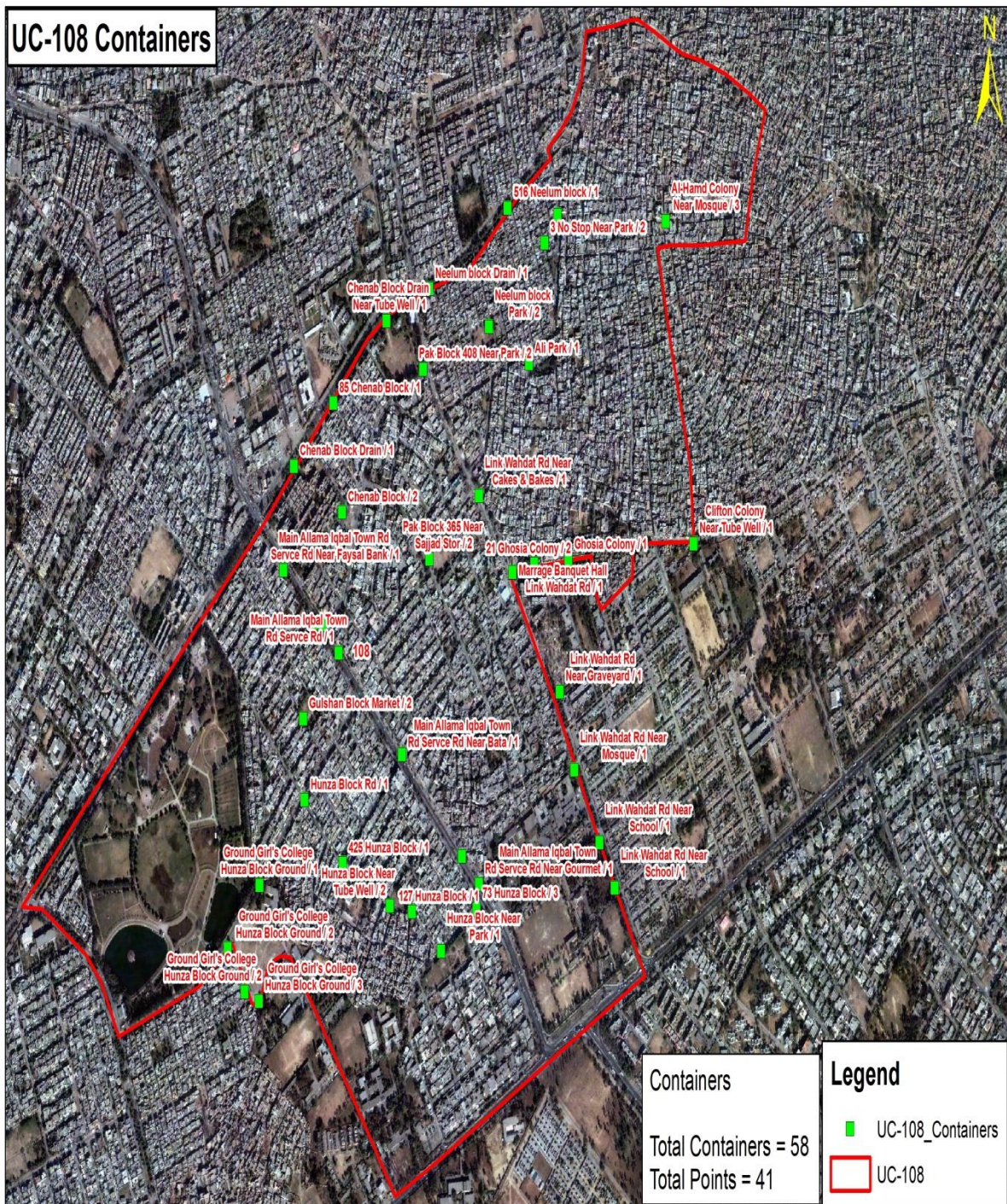


8 Solid Waste Storage

8.1 Waste Storage Facility

- Currently 61 waste storage containers are placed at 35 different points.
- Storage capacity is 15.25 tons in one time lifting
- Lifting is operational in 3 times

Figure 3: Location of Containers



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8.2 Points of Containers

Sr. No.	Location of Containers	No. of Containers
C13-1036		
1	Chanab Block Ganda Naala	1
2	Chanab Block Ganda Naala	1
3	Tanki Point Neelam Block	5
4	Neelam Block Ganda Naala	1
5	Neelam Block Ganda Naala	1
6	Neelam Block Ganda Naala	1
7	Pilot Road	2
8	Pilot Road Qabristan	1
9	Pilot Road School	3
10	3 No. Stop	2
11	Dogar Hotel 3 No. Market	3
12	Ali Park	1
13	Ghausia Colony	3
14	Clifton Colony	1
15	Neelam Block Park Backside	1
16	Chanab Block Flat	2
17	Pak Block Market	2
18	Pilot Road Education Department	3
	Sub Total	34
C13-1043		
19	Main Boulevard Dubai Chowk	1
20	Main Boulevard Warda Print	1
21	Main Boulevard Pizza Hut	1
22	Main Boulevard opposite Xiwang Restaurent	2
23	College Block Main Boulevard	3
24	Main Boulevard Akbari Side	1
25	Main Boulevard Shoe Planet	1
26	Main Boulevard near Jazz Franchise	1
27	Main Boulevard Dubai Chowk near Gourmet	1
28	Gulshan Iqbal Park Ganda Naala	2
29	Gulshan Iqbal Park Gate	1
30	Park Left side gate	1
31	Cycle Stand	7
32	Main Hunza Block near Meat Shop	1
33	Hunza Block Market	3
34	Hunza Block near Masjid	1
35	College Block TMA Side	3
36	Yasir Broast College Block	1
	Sub Total	32
	Grand Total	66

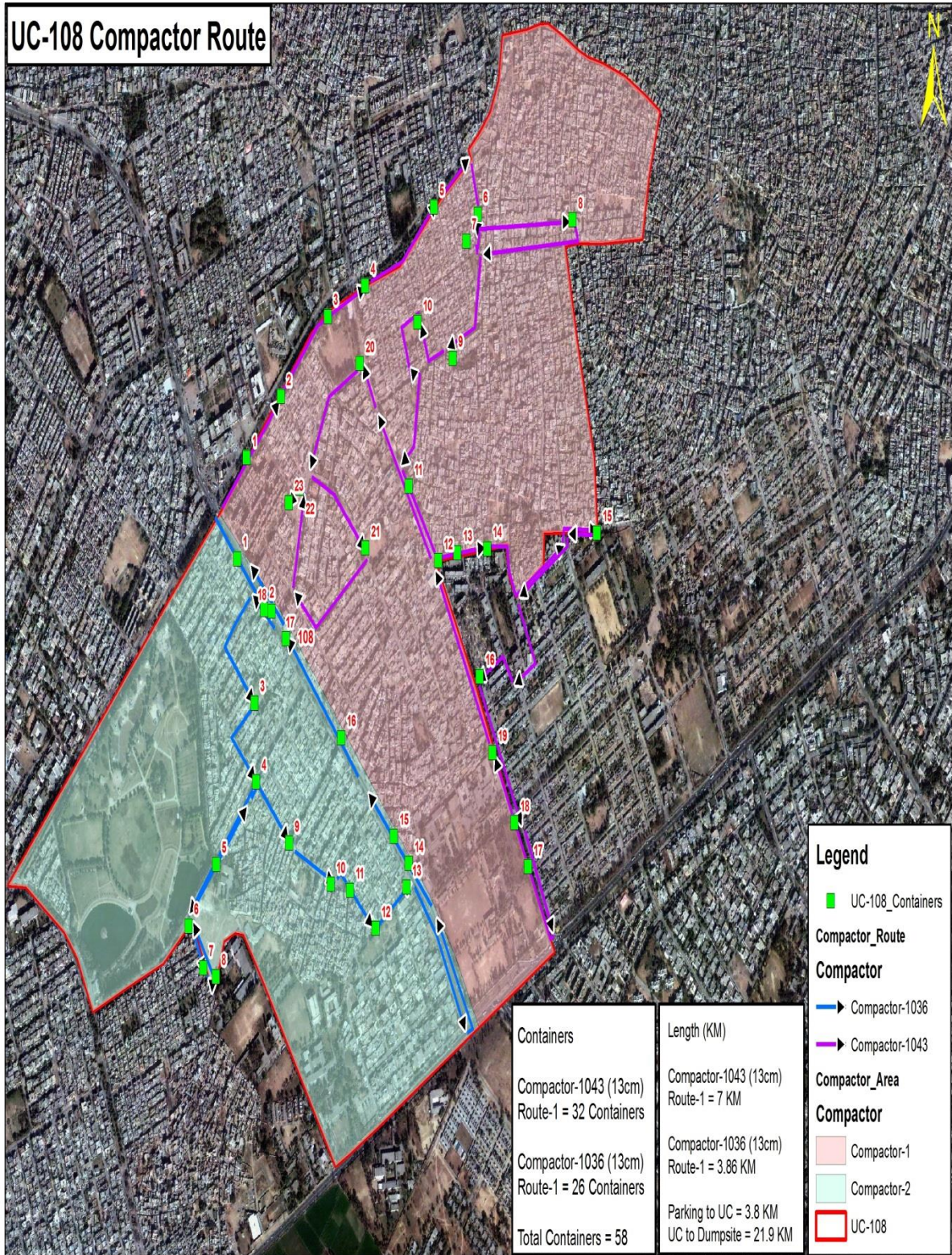
**Overall In-charge
Container Collection**

JOHAR AZAM
(0313-6021341)

9 Solid Waste Collection & Transportation

9.1 Route for Compactor

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



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9.2 Staff Deployment for Compactor Vehicle

Conservancy Staff Zone-20						
Overall In-charge =M Ali (0333-8309550)						
Supervisor = Liaqat Suroya (0323-4690682)				Supervisor = Zafar Iqbal (0321-4835525)		
1st shift				2nd shift		
UC	Vehicle No.	Driver Name & Mobile No.	Helpers	Vehicle No.	Driver Name & Mobile No.	Helpers
103	1089	Ashfaq Hamid (0322-8439732)	Nazar Laal Nadeem Younas	1098	Nasir Munir (0311-4414151)	Waqas
	1012	Farooq Hussain (0322-4221120)	Aslam Bashir khuram Georange			Mushtaq
104	1075	Shahid Mehmood (0341-4000142)	Adnan Riaz Liaqat Shir	1089	Nadeem Butt (0322-8065612)	Pervaiz
	1098	Nadeem Rashid (0315-6939439)	Amin Sama Riaz			Ashraf
107	1034	Asrar Ghulam (0300-4612488)	Javaid Daniyal Azeem Boota	1075	Sarwer (0323- 864085)	Baber
	1055	Muzamal Peer (0344-4065213)	Son Natha Javaid Laba			Fiaz
108	1043	Asif Siddique (0300-8810736)	Salim Sadiq safdar dogar	1098	Nasir Munir (0311-4414151)	Waqas
	1036	Qaiser Masih (0304-4651052)	Rafique Hadyat Qaiser josaph			Mushtaq
109	1097	Akmal Akbar (0344-7841179)	Baga Karamat Ali Riaz	1091	Muhammad Tariq (0300- 4820350)	Sunny
	1024	Adnan George (0315-4688438)	Sadiq Saraj & Azmat			Shahbaz
115	1040	Illyas Hamid (0311-4944290)	Daniyal sabar Kramat Manha	1066	Heera (0314- 4976088)	Sohail
	1091	Bola Mangta (0331-4718543)	Naeem Salim Ishaq			Nadeem
All UC's Main Roads	1064	M. Maalik (0306-4010063)	Karamat Kala Inayat			
Multan Road	1066	Amanat Laba (0302-4832052)	Imran Fiaz			

10 Door To Door Waste Collection

10.1 System for D-T-D Waste Collection

- 1 Mini-Dumper 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	6:30 AM to 8:00 AM	Block 2	8:00 AM to 10 AM
Block 3	10 AM to 11:30 AM	Block 4	11:30 AM to 12:30 PM
Block 5	12:30 PM to 1:30 PM		

Block	Major Areas/ Muhallas
Block 1	Gulshan Block
Block 2	Hunza Block, College Block
Block 3	Pak Block, Chanab Block, Asif Block
Block 4	Neelam Block
Block 5	Al-Hamad Colony, Clifton Colony, Najaf Colony

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Figure: 5 Door-to-Door Maps

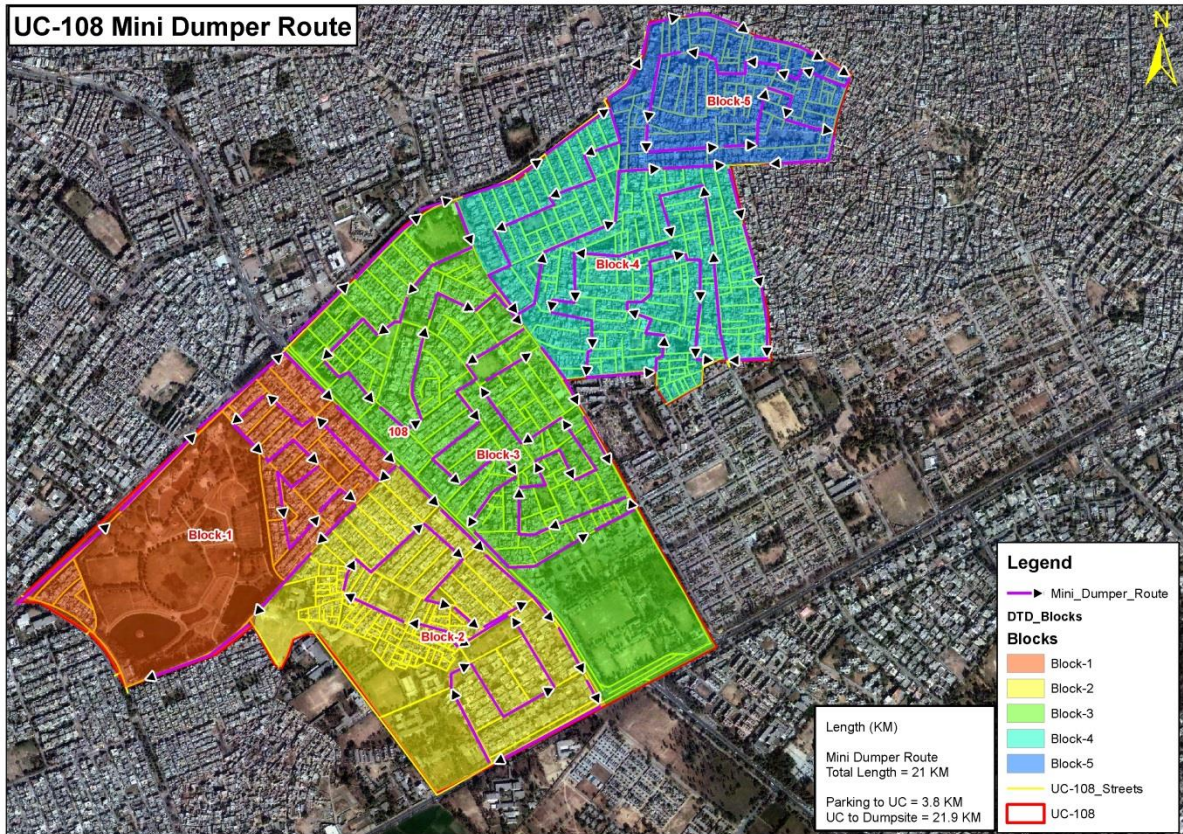
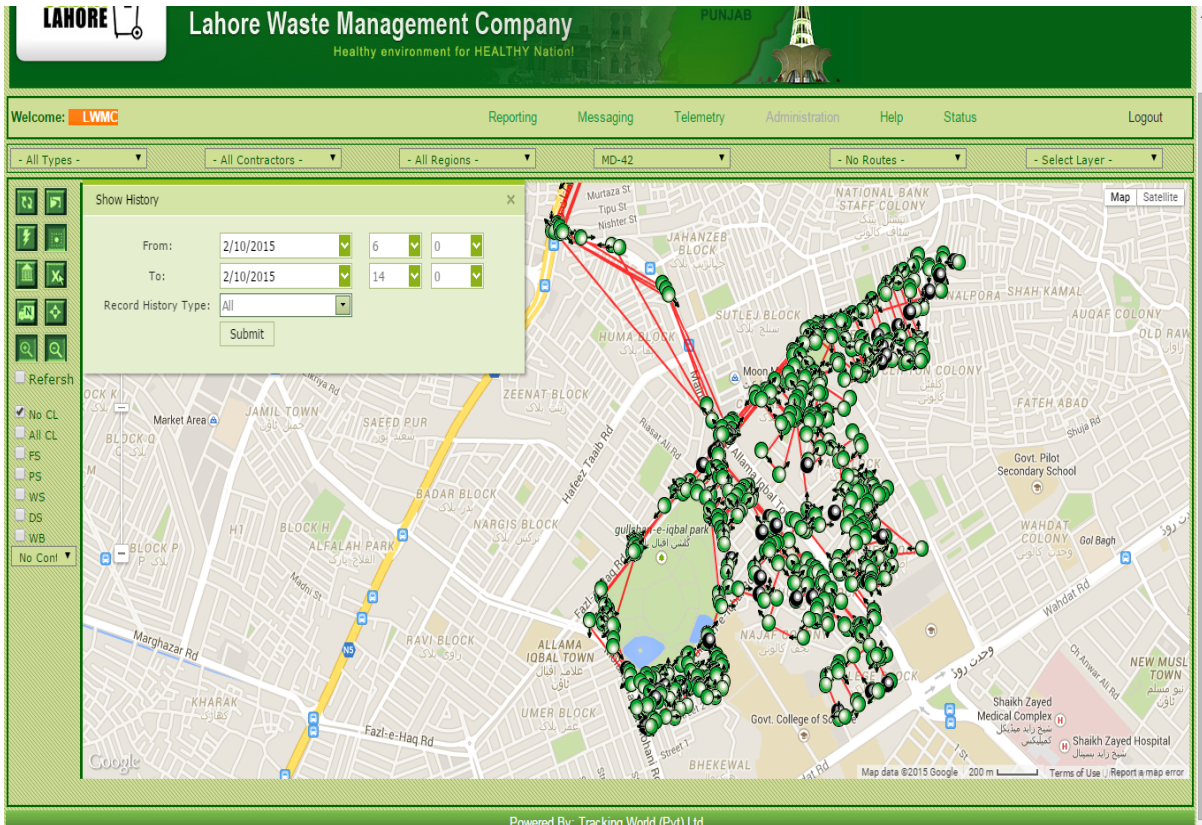


Figure: 6 Mini-Dumper Screen Shot



11 Major Roads

- Main Boulevard Allama Iqbal Town
- Pilot Road
- Wahdat Road

12 C & D Points

- Ganda Naala
- Cycle Stand
- Gulshan Iqbal Park
- Pilot Road
- Neelam Block Auto Market
- Main Boulevard Allama Iqbal Town

13 Open Plots

- 41 Clifton Colony
- 269 Gulshan Block
- 635 Nizam Block
- Asif Block Al-Noor Medical Store

