

ÖZKARTALLAR CAMPAK JOINT VENTURE

**Solid Waste
Management Plan for
Kashmir Block (UC-
104)**

2015

By:

M Ali Saleem

Deputy Manager Operations

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1. Facts

SR.N	Description	
1	Phase	C
2	UC	104 –Kashmir Block
3	Deputy Manager Operations	M. Ali Saleem
4	Zonal Officer LWMC	Tayyab
5	Population	71209
6	UC Area	2235000 m ² (middle income)
7	Waste Generation (estimated)	46.28 Tons/day

2. Operational Arrangements / Resources Deployed

2.1 1st Shift Arrangement – 6 AM to 2 PM

Manual Sweeping		
Sanitary Supervisors	6	
Sanitary Workers	68	
Wheelie Bins	4	
Hand Carts	17	
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	77	
Containers Points	38	
Compactors	C-1075	1 trip, approx. 10 tons
	C-1098	1 trip, approx. 10 tons
Drivers	2	
Helpers	4	
D-T-D Collection		
Mini Dumpers – Suzuki Pickup	1	MD-43
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	10	
Note: for taking care of whole Zone-20, attending major roads, markets, 1139 complaints and to coordinate compactors and ensure containers collection.		
Containers Collection		
Compactors	1	C13-1089, 1 trip (approx. 8 to 10 tons)
Note: attending UC-104		

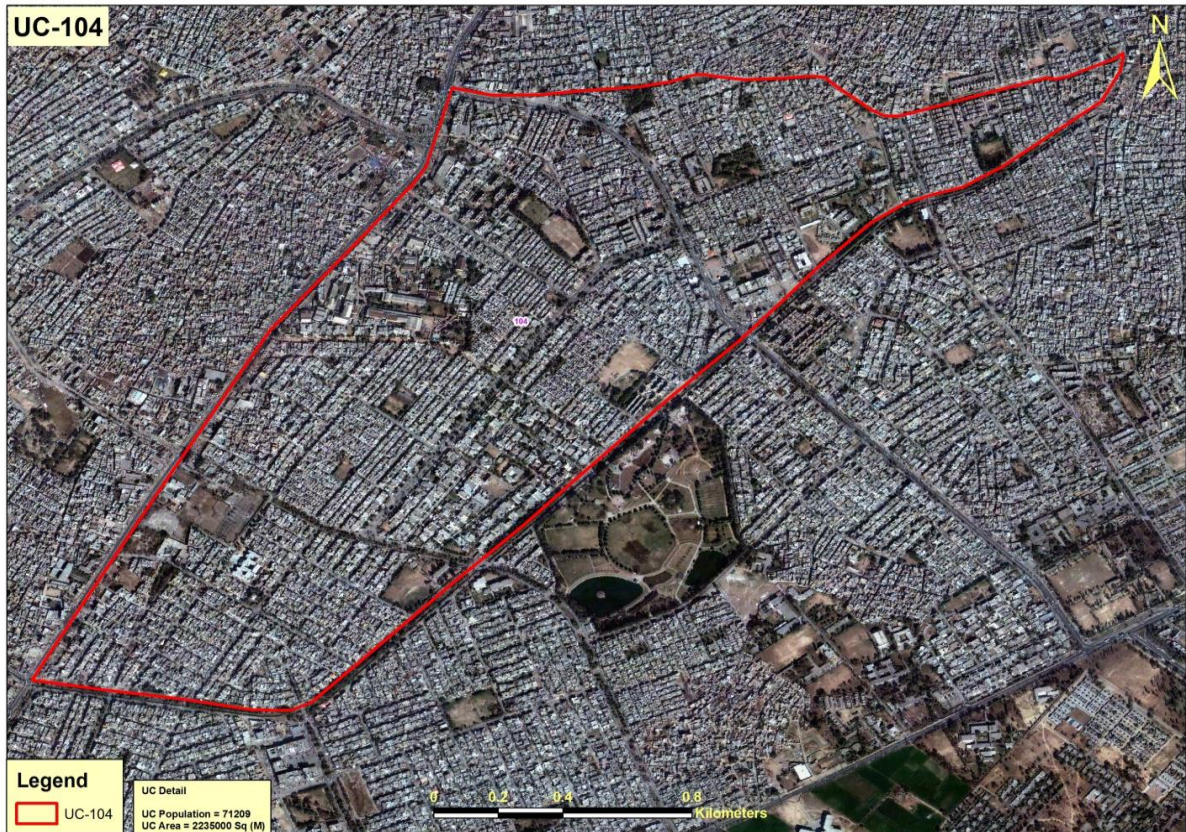
2.3 3rd Shift Arrangement – 10 PM to 6 AM

Containers Collection		
Compactors	1	C13-1019, 1 trip (approx. 8 to 10 tons)
Driver	1	
Helper	2	
Note: Attending All UC's		

3 Introduction

Union Council – 104 (Kashmir Block) is located in Samanabad Town. Total area of the UC is 2235000 m² with population of 71209¹. This area is predominantly middle income area with planned settlement.

Figure 1: Map of UC 104



4 Solid Waste Generation

Estimated solid waste generation is 46.28 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	11000	1000
2	7400	1233
3	10000	1000
4	13000	1300
5	15600	1040
6	11700	780
Total	69100	Avg. (1058)

- 10 sanitary workers deployed in each Team and each sanitary worker has his own defined beat.
- Average Beat Length is more as it is very scattered Union Council.
- 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

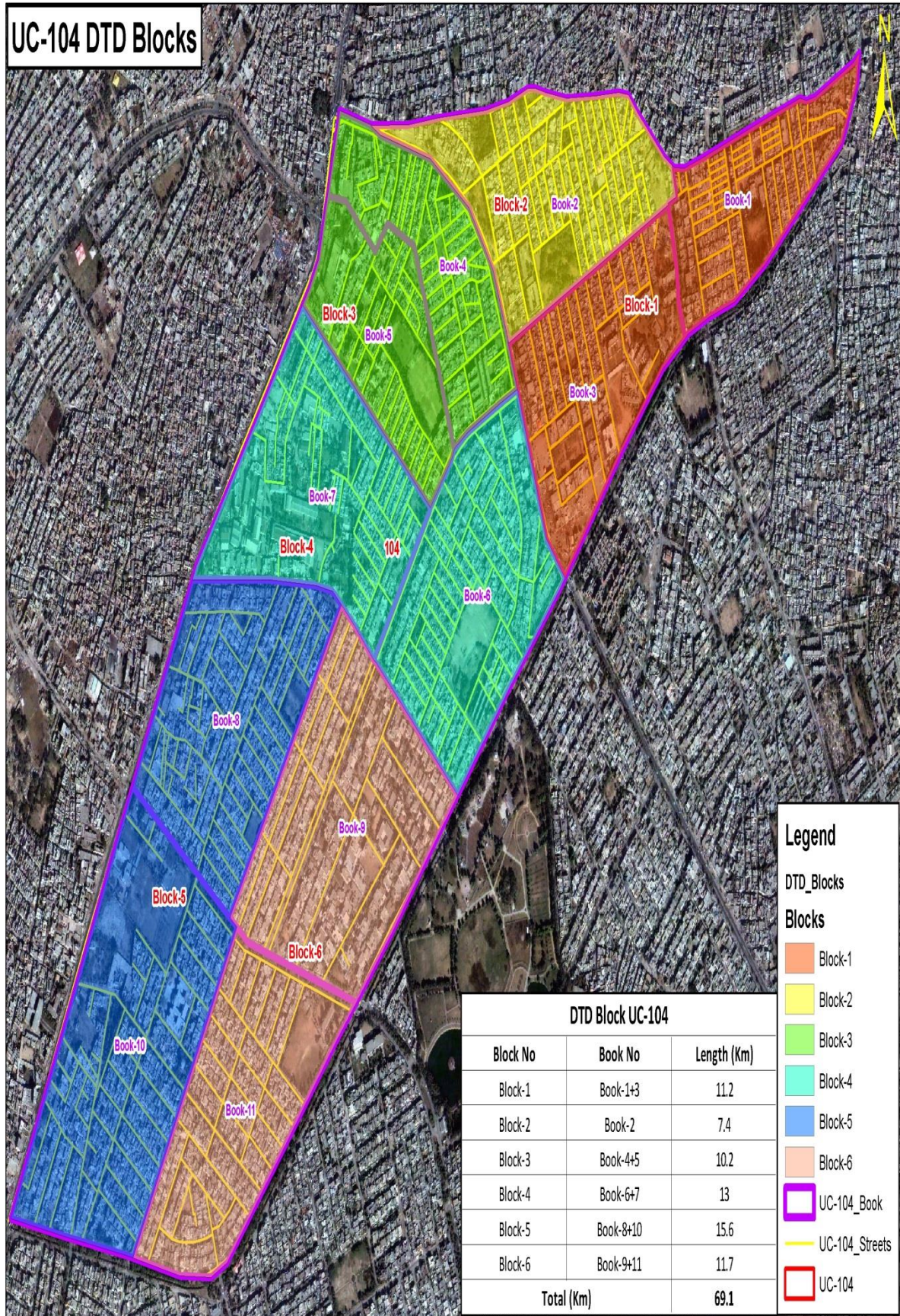
7 Human Resource

Teams	Supervisor/Sargent	Sanitary workers
1	Sargent 1	11
2	Sargent 2	6
3	Sargent 3	11
4	Sargent 4	10
5	Sargent 5	15
6	Sargent 6	15
Total	6	68

Overall In-charge Manual Sweeping	HAMAAD MALIK (0341-2776468)
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Figure 2: Map of System Blocks/Teams

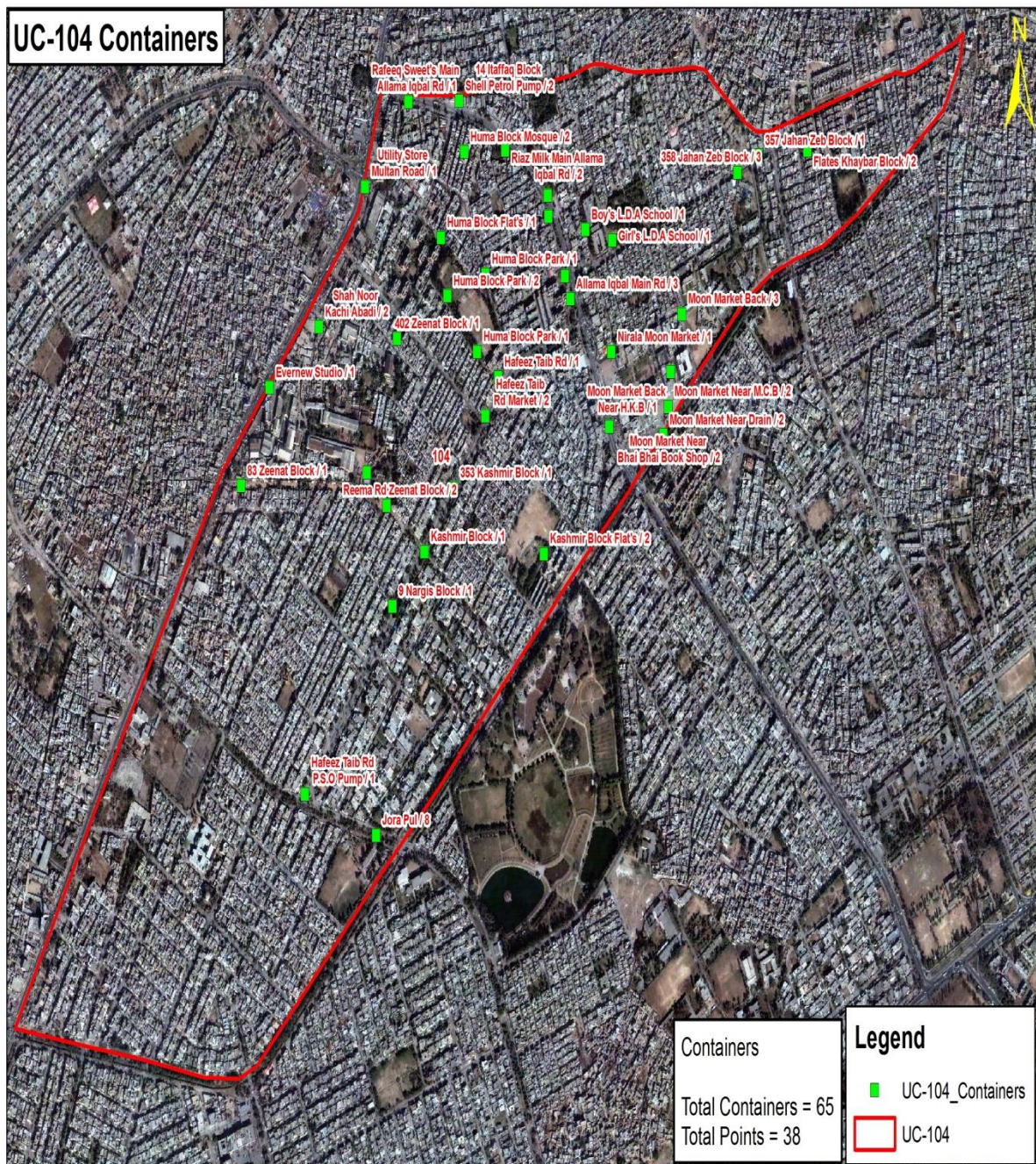


8 Solid Waste Storage

8.1 Waste Storage Facility

- Currently 75 waste storage containers are placed at 37 different points.
- Storage capacity is 19 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

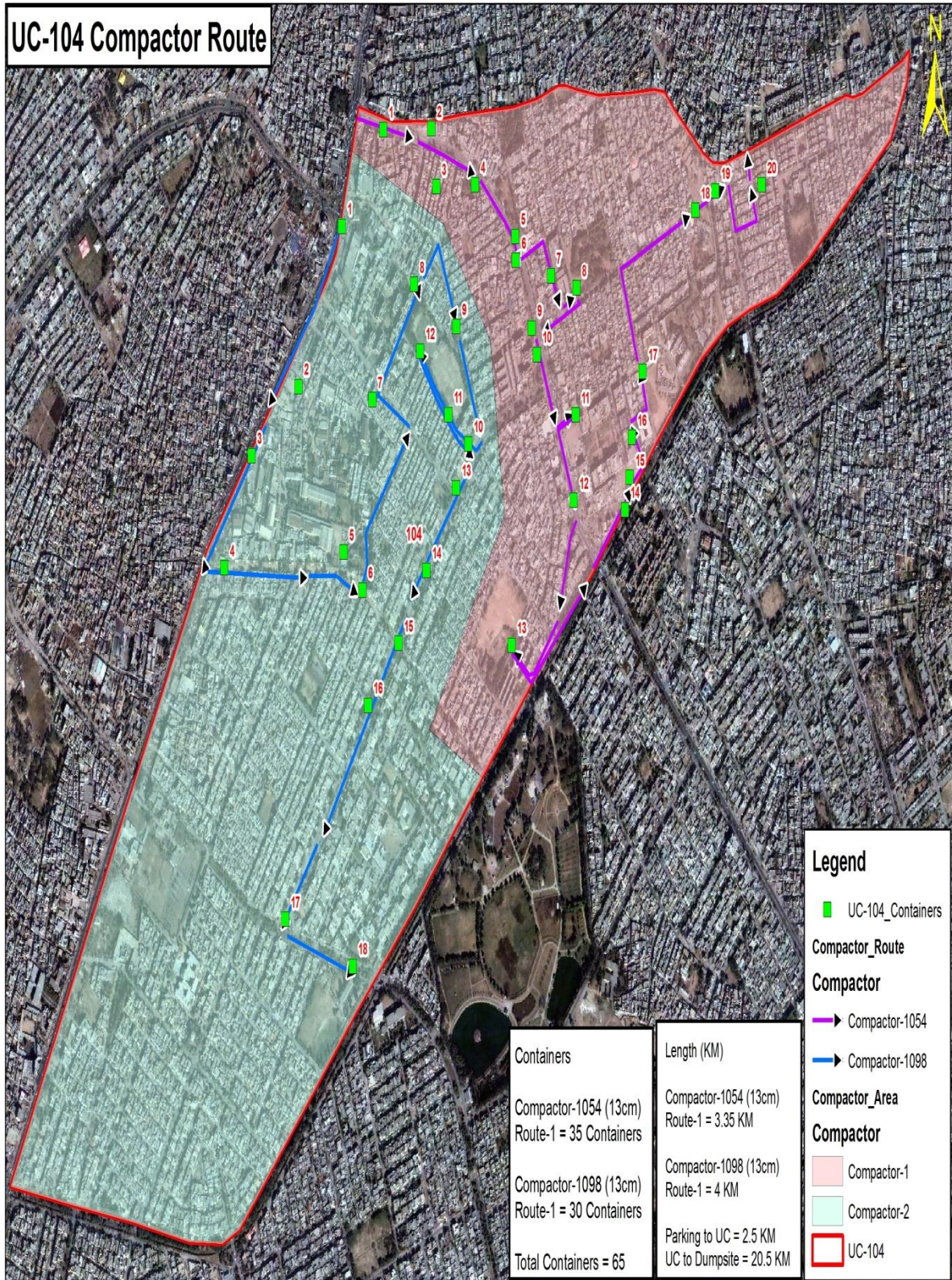
Sr. No.	Location of Containers	No. of Containers
C13-1075		
1	Scheme Mor	1
2	Kachi Abadi	3
3	Ever New Studio	1
4	Saed Pur Darbar	1
5	Jorra Pull	10
6	Wapda Flats Kashmir Block	2
7	215 Kashmir Block	1
8	Hafeez Taib Road Bismillah Chowk	2
9	664 Huma Block	1
10	534 Huma Block	2
11	529 Huma Block	2
12	24/C Huma Block	2
13	Muslim Block Road	1
14	407 Zeenat Block Edhi Road	1
15	Ghazi Park Zeenat Block	1
16	Reema Road	2
	Sub Total	33
C13-1098		
17	Moon Market Main	2
18	Waste Enclosure	4
19	Moon Market Inside	1
20	Bandu Khan Road Nirala Sweets	1
21	Bandu Khan Road Nargis Parlour	1
22	College Point	3
23	Main Boulevard Post Office	1
24	Main Boulevard Raheem Store	1
25	Main Boulevard KFC	2
26	Main Boulevard Lahore Broast	1
27	Main Boulevard Riaz Foluda	2
28	Scheme Mor Main Boulevard	1
29	Hafeez Taib Road WASA Office	1
30	353 Kashmir Block Hafeez Taib Road	1
31	Link Reema Road	1
32	Allied School	1
33	Khyber Block	2
34	Customs Point	8
35	LDA Ground Jahanzaib Block	1
36	LDA School Jahanzaib Block	4
37	Khotiyan Wala Point Naeem Shaheed Road	3
	Sub Total	42
	Grand Total	75

Overall In-charge Container Collection	Hamaad Malik (0341-2776468)
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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
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 11:00 AM
Block 3	11:00 AM to 12:00 PM	Block 4	12:00 PM to 1:00 PM
Block 5	In 2nd Shift	Block 6	In 2nd Shift

Blocks	Major Areas/ Muhallas
Block 1	Khyber Block, Satluj Block
Block 2	Jahanzaib Block
Block 3	Huma Block, Zeenat Block
Block 4	Nargis Block, Badar Block
Block 5	Ravi Block, Shah Noor Kachi Abadi
Block 6	Kashmir Block, Rachna Block

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Figure: 5 Door-to-Door Maps

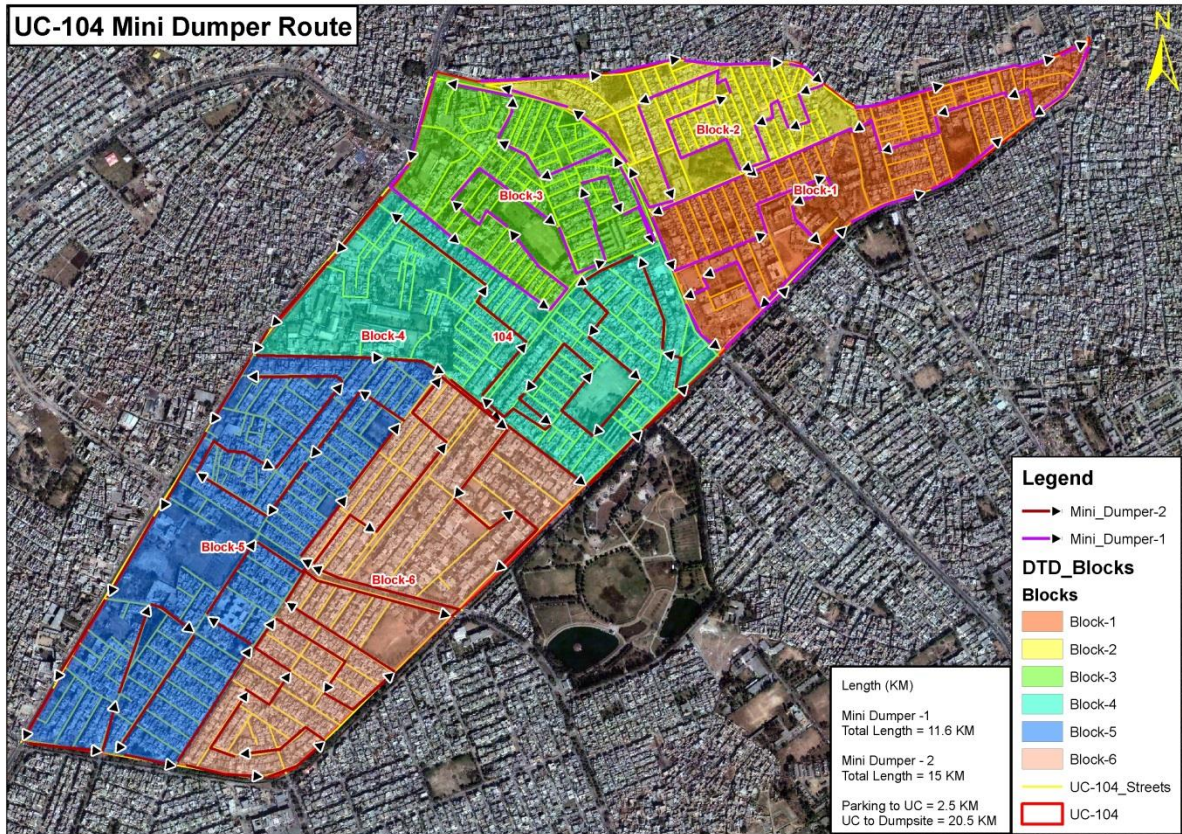


Figure: 6 Mini-Dumper Screen Shot



11 Major Roads

- Multan Road
- Main Boulevard Allama Iqbal Town
- Ganda Naala Avian Chowk to Kharak
- Hafeez Taib Road
- Church Road
- Naeem Shaheed Road
- Reema Road

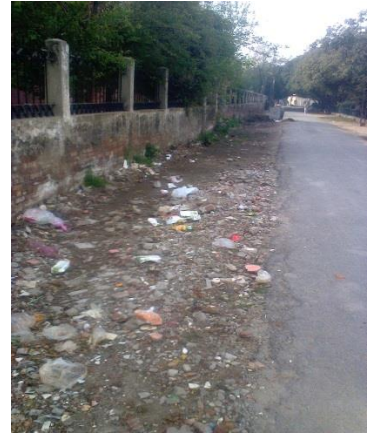
12 C & D Points

- 44 Sadaat colony
- Hafeez Taib Road
- Bhagi Wala Point
- Huma Block Quarters
- Jorra Pull Green Belt
- Kashmir Block Quarters
- LDA Road
- Naeem Shaheed Road
- Riaz Falooda
- Ganda Naala

Figure 7: C & D Points



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13 Open Plots

- 31-D Muslim Block
- 95 Huma Block
- 102 Khyber Block
- 163 Kashmir Block
- 463 Zeenat Block
- Rachna Block



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