

# ÖZKARTALLAR CAMPAK JOINT VENTURE

*Sikandriya workshop 2*



## **Solid Waste Management Plan For Gulgasht Colony (UC-88)**

*By*

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**Contents**

.....	0
<b>1. Facts</b> .....	2
<b>2. Operational Arrangements / Resources Deployed</b> .....	2
2.1 1 <sup>st</sup> Shift Arrangement – 6 AM to 2 PM.....	2
2.2 2 <sup>nd</sup> Shift Arrangement - 2 PM to 10 PM.....	3
<b>3 Introduction</b> .....	Error! Bookmark not defined.
<b>4 Solid Waste Generation</b> .....	Error! Bookmark not defined.
<b>5 Solid Waste Management Practices</b> .....	Error! Bookmark not defined.
<b>6 Street Sweeping and Waste Collection by Sanitary Workers</b> .....	Error! Bookmark not defined.
6.1 Team Division .....	Error! Bookmark not defined.
<b>7 Solid Waste Storage</b> .....	Error! Bookmark not defined.
7.1 Waste Storage Facility.....	Error! Bookmark not defined.
7.2 Existing Points of Containers.....	4
<b>Existing Points of Containers</b> .....	5
<b>8 Solid Waste Collection &amp; Transportation</b> .....	6
8.1 Route for Compactor .....	6
8.2 Staff Deployment for Compactor Vehicle .....	6
<b>9 Door To Door Waste Collection</b> .....	7
9.1 System for D-T-D Waste Collection .....	7
<b>10 2nd Shift Operational Arrangement</b> .....	10
<b>11 Problematic Areas</b> .....	11
<b>12 Open plots</b> .....	12
<b>13 Public Awareness</b> .....	13

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**1. Facts**

SR.N	Description	
1	Phase	B
2	UC	88 –Gulgasht Colony
3	Area Deputy Manager	Muhammad Noman
4	Zonal Officer LWMC	Jahanzaib Bhatti
5	Population	53745
6	UC Area	632560 m <sup>2</sup> (middle income)
7	Waste Generation (estimated)	34.93 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	3	
Sanitary Workers	38	
Wheelie Bins	4	
Hand Carts	28	
<b>Special Gang</b>		
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		
<b>Containers Collection</b>		
Containers Placed	26	2 trip, approx. 4 to 6 tons each
Containers Points	13	
Compactors	C7-1112	
Drivers	1	
Helpers	2	
<b>D-T-D Collection</b>		
Mini Dumpers – Suzuki Pickup	1	MD-40
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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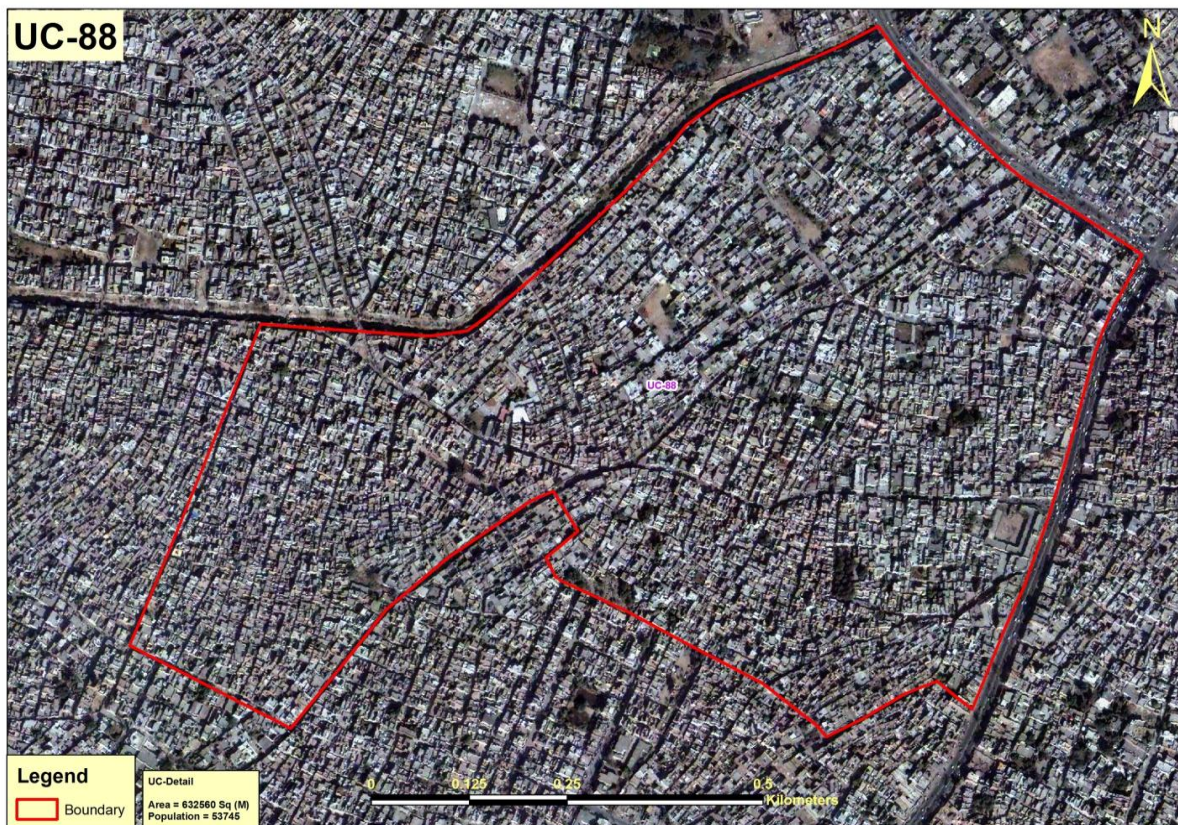
2.2 2<sup>nd</sup> Shift Arrangement - 2 PM to 10 PM

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-1112, 1 trip (approx. 8 to 10 tons)
Note: attending 3 UC's 88, 89 & 90		

**3 Introduction**

Union Council – 88 (Gulgasht Colony) is located in Samanabad Town. Total area of the UC is 632560 m<sup>2</sup> with population of 53745<sup>1</sup>. This area is predominantly middle income area with planned settlement.

Figure 1: Map of UC 88



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

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#### **4 Solid Waste Generation**

Estimated solid waste generation is 34.93 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.

#### **7 Solid Waste Storage**

##### **7.1 Waste Storage Facility**

- Currently 26 waste storage containers are placed at 13 different points.
- Storage capacity is 6 tons in one time lifting
- Lifting is operational in 2 times

##### **7.2 Existing Points of Containers**

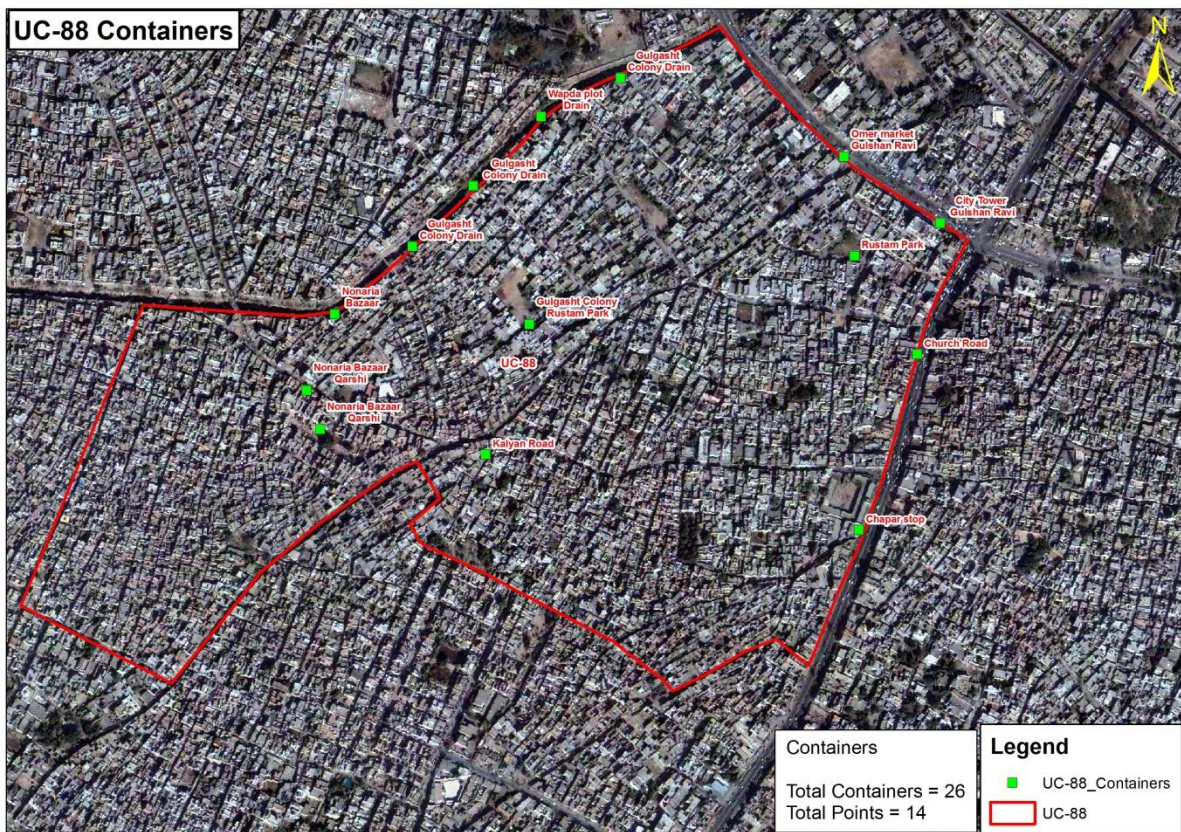
Sr. No.	Container Location	No. of Containers
1	Chapar stop	4
2	Church Multan road	1
3	Umar market gulshan-e-ravi	1
4	Umar market gulshan-e-ravi	2
5	Ganda Nallah	1
6	Ganda Nallah	1



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7	Ganda Nallah	1
8	Ganda Nallah	1
9	Ganda Nallah	1
10	Qarshi Nanareyan bazar	6
11	Nanareyan pind	2
12	Gilgusht colony	2
13	Baby ground	3
	Total containers	26

Existing Points of Containers

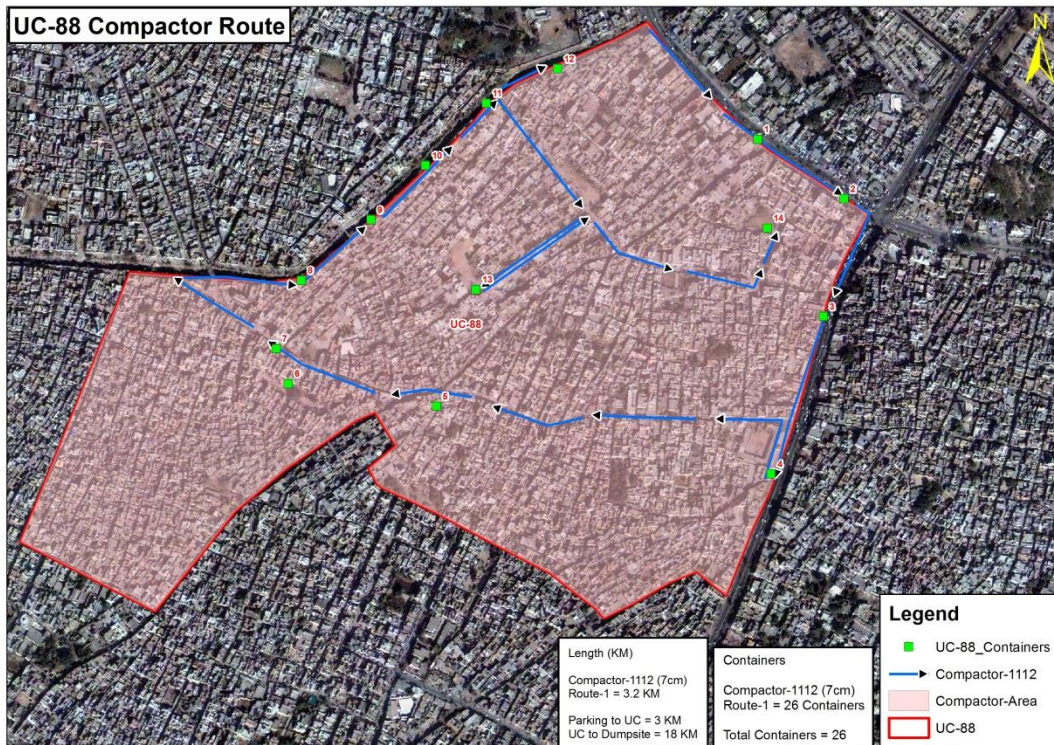




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**8 Solid Waste Collection & Transportation**

**8.1 Route for Compactor**



**8.2 Staff Deployment for Compactor Vehicle**

Conservancy Staff Zone-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	Kaiser Masih (03014141911)	Riaz	1021 All Uc's	Ishfaq	Aslam														
			Rafique																	
87	1046	M. Yousaf (0321-4563896)	Khawar								Nazir									
			Shamoon																	
	1059		Javed (0324-4706079)								Safdar						Nadeem			
											Arif									

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88	1112	Imanual (0306-6049554)	Bashir	1112 All Uc's	Chana Masih (0324-4929902)	Nil		
			Arif					
89	1038	Malik Murtaza (0333-4800363)	Naeem			Nil		
			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			
			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

### 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

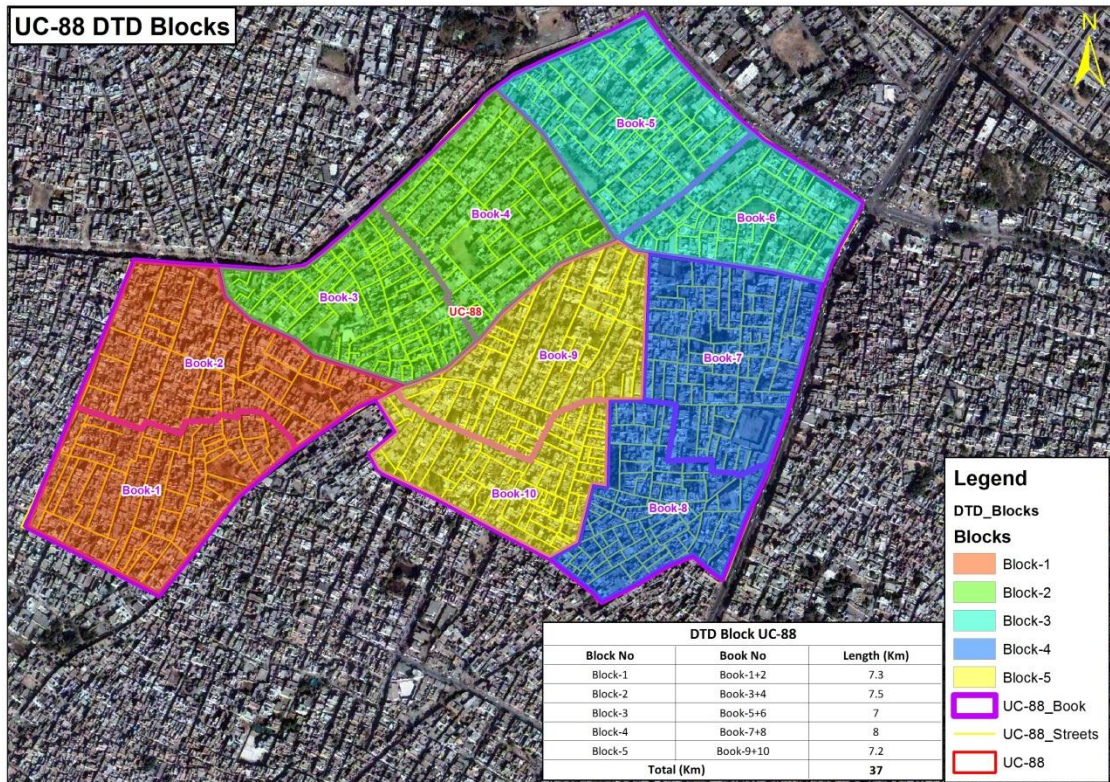


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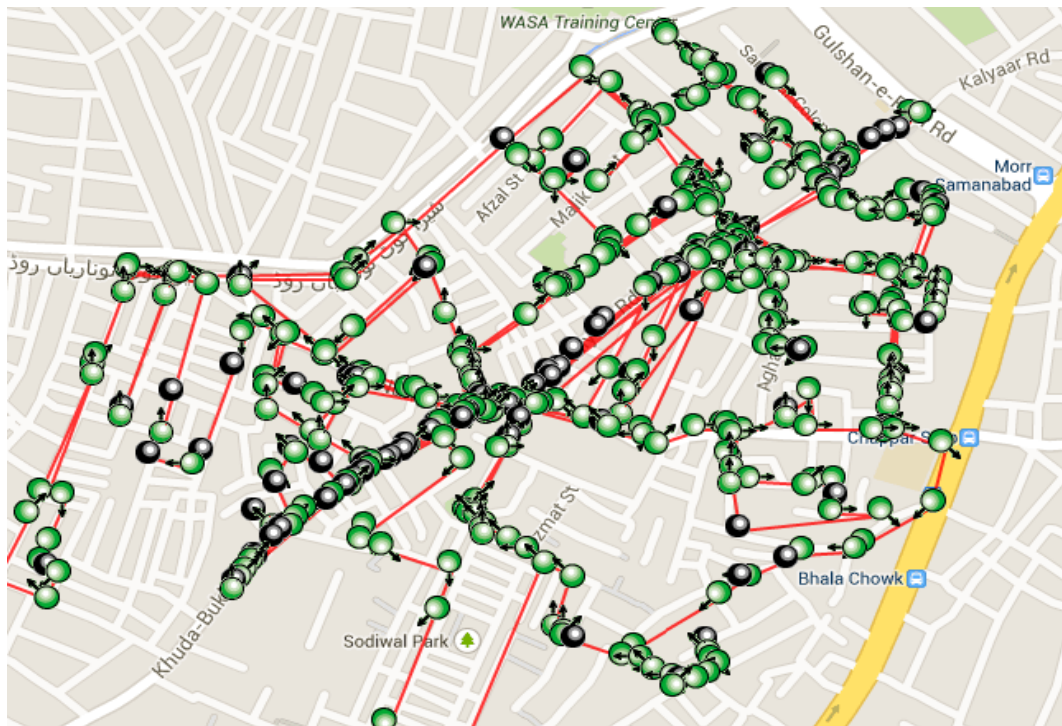
Block	Major Areas/ Mohalla's	Timings
Block 1	Multan road	6:00 am to 8:00 am
	Nonareyan Bazar	
	Kelyar Road	
	Umar Market	
Block 2	Gulgasht colony	8:00 am to 11:00 am
	Ghulam Nabi street	
	Shalimar road	
Block 3	New Shalimar colony	11:00 am to 12:00 pm
	Ganda Nallah	
	Wapda plot area	
Block 4	Nonareyan Pind	12:00 pm to 1:00 pm
	Khuda Baksh Road	
	Qarshi road	
Block 5	Muhajerabad	1:00 pm to 2:00 pm
	Baby Ground	
	Rustum Park	

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## DTD Blocks Map



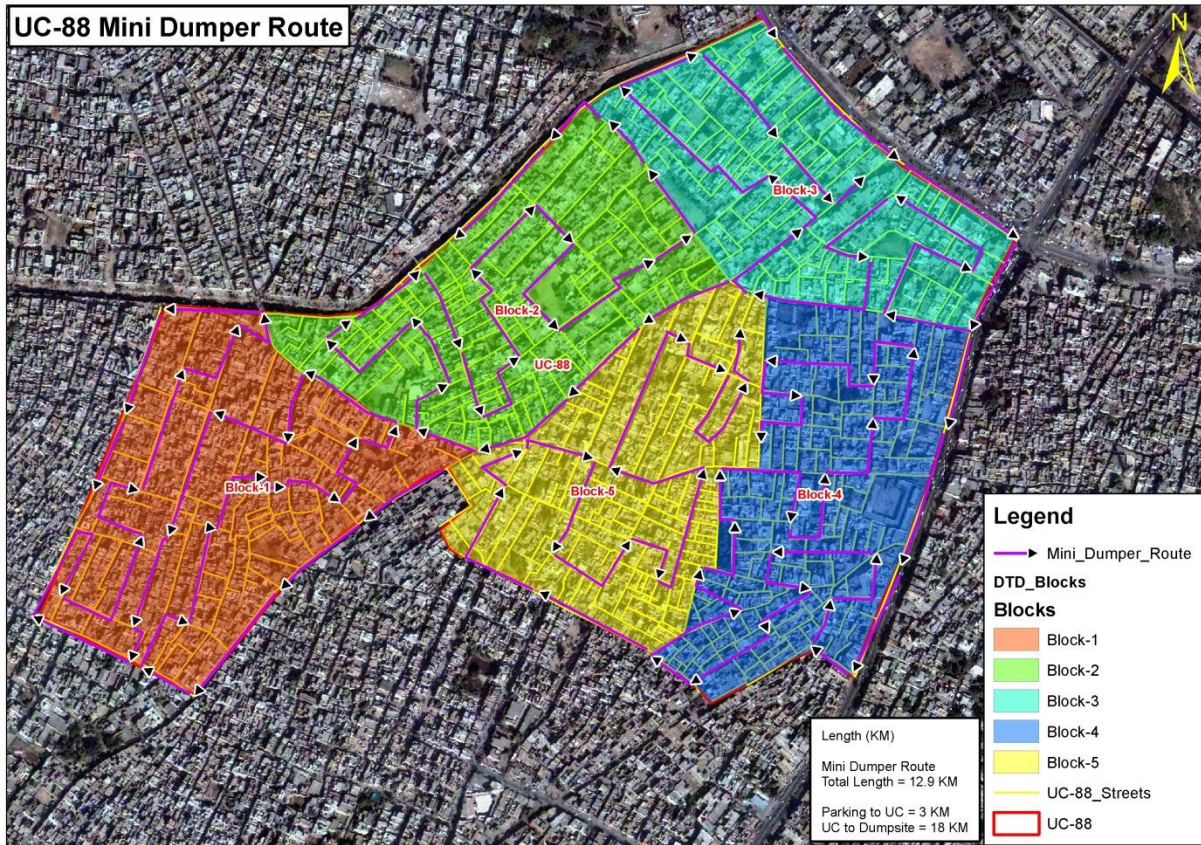
## DTD ROUTE MAP



## Mini Dumper Route Map



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**10 2nd Shift Operational Arrangement**

<b>Manual Sweeping - Special Gang</b>		
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-1112, 2 trip (approx. 8 to 10 tons)
Note: attending 3 UC's 88, 89 & 90		

**Major Areas**

- Chapper Stop
- Nonareyan Pind
- Rustum Park
- Gulgasht Colony
- New Shalimar Colony



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**11 Problematic Areas**

**New Shalimar Colony**

New Shalimar colony is one of main problematic area of UC 88, due to bad infrastructure.

**Observations:**

- Poor sweeping due to bad infrastructure
- Waste heaps unattended.
- Containers overflowing at ganda Nallah



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**Recommendations:**

- Proper lifting of open waste heaps.
- Ensuring zero waste around containers.

**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

**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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**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