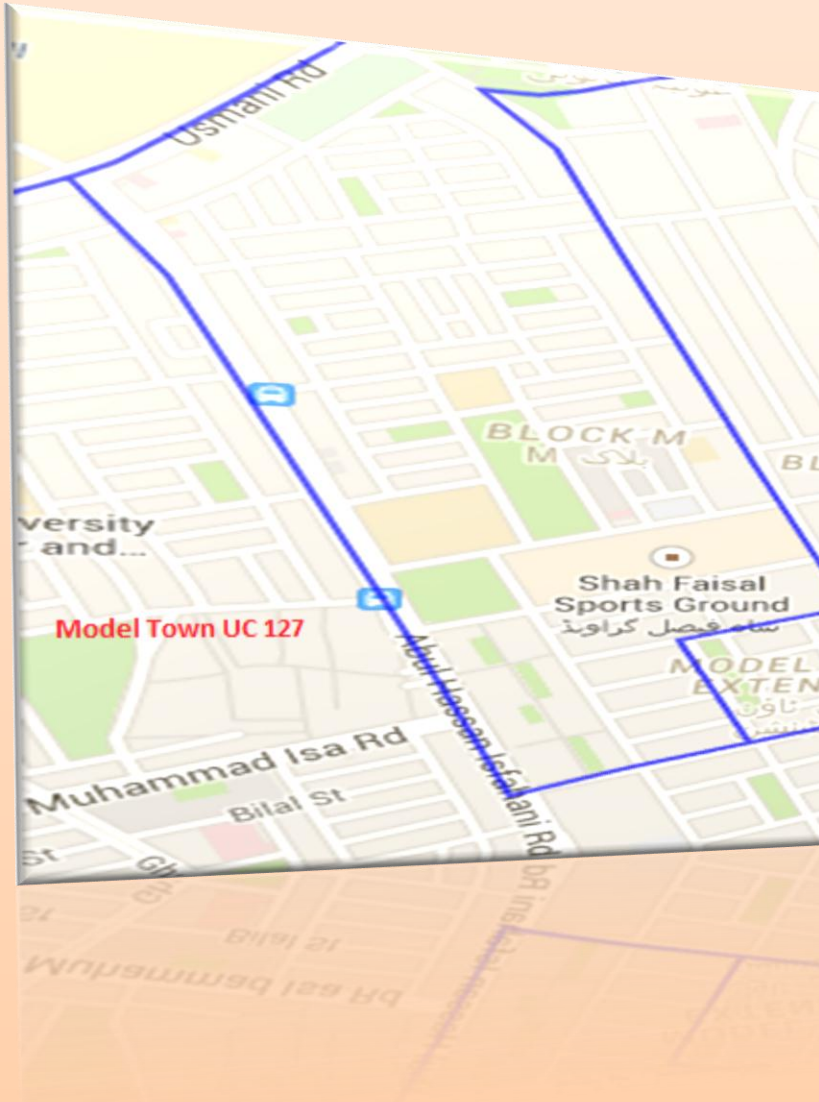


Özkartallar Campak Joint Venture



Solid Waste Management Plan for Garden Town (UC-127)

By:

Muhammad Awais Zafar
Deputy Manager Operations

5TH FLOOR, SHAHEEN COMPLEX, EGERTON ROAD,

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Map of UC 127 Garden Town



1. Introduction

Union Council – 127 (Garden Town) is located in Gulberg Town. Total area of the UC is 1001319 m² with population of 16019. This area is predominantly middle income area with planned settlement.

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Supervisors

Sr. No	Name	Contact No.	Designation
1	Qaiser	0311-4644113	Coordinator / Supervisor

Important Places of Union Council-127

From Sanitation point of view Union Council127 has important Places like important Road Commercial Markets, Mosque, Imam Bargahs, Graveyard and educational Institute.

Sr.No	Particular
Important Roads	
1	• Feroz pur road
2	• Faisal Town Road
	•
Markets	
1	• International Market
2	• Zahoor Market
3	• M Block Market
Mosque	
1	• Minhaj ul quran
2	• Mosque Khizra
3	• Madni Mosque
	• Abu huraira
Imam Bargahs	
1	Nil
Graveyard	
1	Nil
Educational Institute	
1	• GOVT Degree College

2. Solid Waste Generation

Estimated solid waste generation is 10.41 tons per day @ waste generation rate of 0.65 kg/person/day.

3. Particulars

Phase-A, Union Council 127 (Model Town)
Muhammad Awais Zafar (Deputy Mnager OZPAK)
Aslam Bhatti (Zonal Officer LWMC)
Population : 16019
Area: 1001319 m ² (Approx)
Waste Generation (estimated) : 10.41 tons @.65 kg/person/day

4. 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:

4.1 Operational Activities

4.1.1 1st Shift Plan

Manual Sweeping Operation

Manual sweeping of the roads, streets, markets, footpaths and every paved and unpaved passageway is done with Sanitary Workers equipped with all necessary operational tools and PPE's (Personal protective equipment's)

- ✓ Manual sweeping in first shift is carried out from 6AM to 2PM.
- ✓ Personal protective equipment's include Proper uniform, Gloves, Mask, Proper Shoes, Long Boots and Rain Coat in case of monsoon Season.
- ✓ Operational Requirement for Sanitary Worker includes Broom, Shovel, Wheelie Bin, Waste Bags, Scrapper and Hand Cart.

Beat List of UC 127:

Name of Worker	Computer #	Beat Name
Nargis w/o ameen	29063	N block model town
sarmad s/o noor	25903	Compactor helper
shareef s/o barkat	13418	N block model town
shakeela w/o iqbal	9049	N block model town
Amanat Bagiha	26660	Main faisal town road
fozia w/o faqairan	25903	N block model town
asif s/o jaan	29056	Mini dumper
siddique s/o nazir	29061	main feroz pure road
khalila w/o nazir	30178	main feroz pure road
ghulfam s/o faryad	25099	faisal town flate

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liaqat s/o taj	30179	Main ferozpur litter picking
tariq s/o karamat	26247	main faisal town road
karamat s/o bagiha	26961	sehar memorial hospital
Shan	10766	Compactor helper
kashif s/o jaan	29057	faisal town flate serivce road
azeem s/o nazir	30180	faisal town flate
suniel s/o rasheed	80768	Malta road
yaqoob s/o mangha	25904	Bail Dar
saleem s/o chana	29064	LDA road
rafique s/o nazeer	29055	Faisal Town Flat
younas s/o sadiq	767	international market
faisal s/o ghulfam	25079	Goat road
shamoon s/o yousaf	765	international market
suba s/o khushala	13380	naseer bhutta gali
perveen s/o maqbol	7012	jetti markit
farooq s/o gafoor	13284	m block market
kashif s/o suba	26152	Faisal Town flat
chana s/o labha	25911	2nd shift
Munir s/o Kala	29060	2nd shift
Salma w/o Azeem	761	N- Block Model Town



Broom



Hand Cart



Whellie Bin



Shovel



Proper Uniform with PPE's



Waste Bag



Scrapper



Shovel 1



Monsoon SOP's (Long Boots & Rain Coat)

Pictorial View of Operational Equipment's, PPE's & Monsoon SOP's for Sanitary Worker

- ✓ Sanitary Workers are managed by Sanitary Supervisors in Union Council and each sanitary worker has its own defined Beat (Area).
- ✓ During Manual Sweeping Operation in 1stShift, Waste is also collected by sanitary workers from households i.e. collected from their house entrance.
- ✓ Waste Bags are also used by sanitary workers to collect the waste from the roads, streets and households which are then hauled through Wheelie bins and Hand carts to the waste containers.

Manual Sweeping Operation Details



Solid Waste Collection Operation (Container Collection)

Solid waste generated is stored in waste containers which are placed all over the Union Council. These waste containers are lifted by Hydraulic Compactor Vehicles moving in the union council on a specific route for the purpose of waste collection and dump the waste at Dumping Site (Mehmood Booti).

- ✓ Total 44 waste containers are in place in Union Council at 14 different Points.
- ✓ Total waste storage capacity in 44 containers is 11.00 tons in two time lifting.
- ✓ These Waste Containers are lifted by Hydraulic Compactor Vehicles having a Compaction Ratio of 1:2.
- ✓ One compactor is deployed for waste collection in Union Council. Compactor has two helpers equipped with all necessary operational tools and PPE's (Personal protective equipment's).
- ✓ Compactor's responsibility is to lift all the containers in its route during the shift and also to collect all open heaps from the roads and streets to maintain efficient cleanliness standards.



Compactor Hydraulic System



Compactor



Mini Dumper Hydraulic System



Mini Dumper



Broom



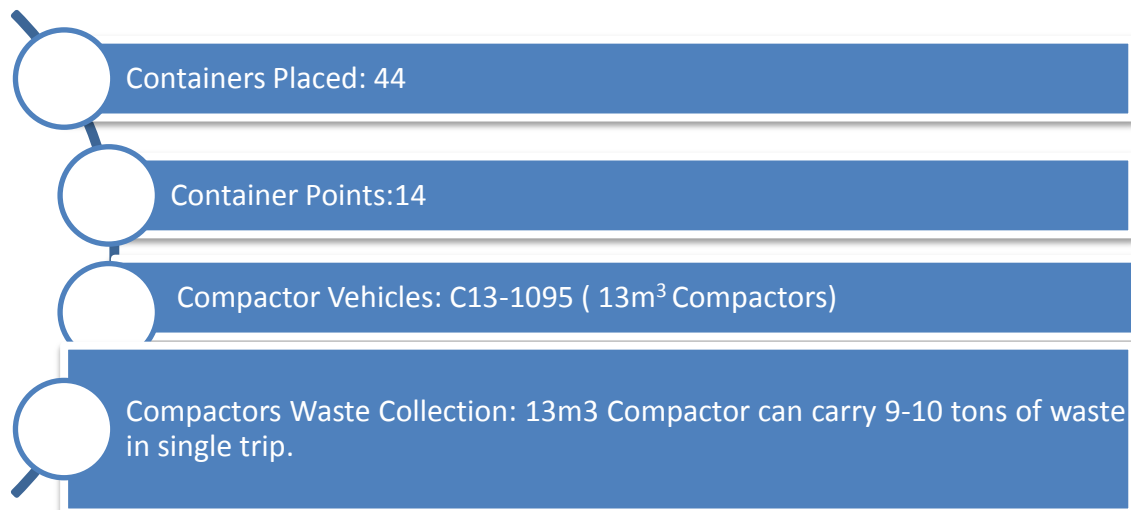
Shovel 1



Waste Bag

Pictorial View of Vehicles & Operational Equipment's for Helpers

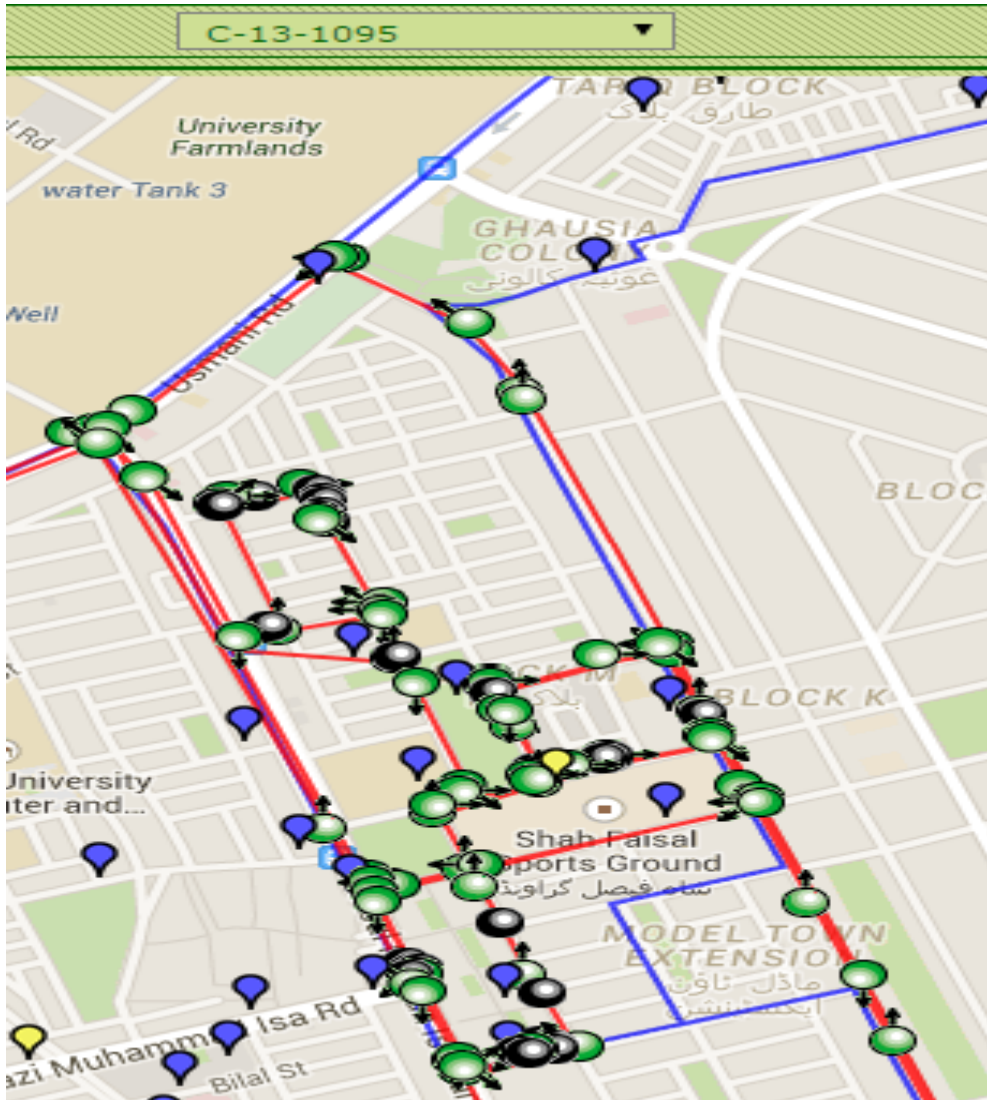
Solid Waste Collection Operation (Container Collection) Details



Compactor Vehicles Waste collection

13m³ Compactors make one trips in 1st Shift to Dumping Site after lifting all Waste containers and Waste Heaps in its route. Approximately it lifts 9000-10000 kg waste in one trip.

Compacter route



4.2 2nd Shift Plan

Manual Sweeping Operation

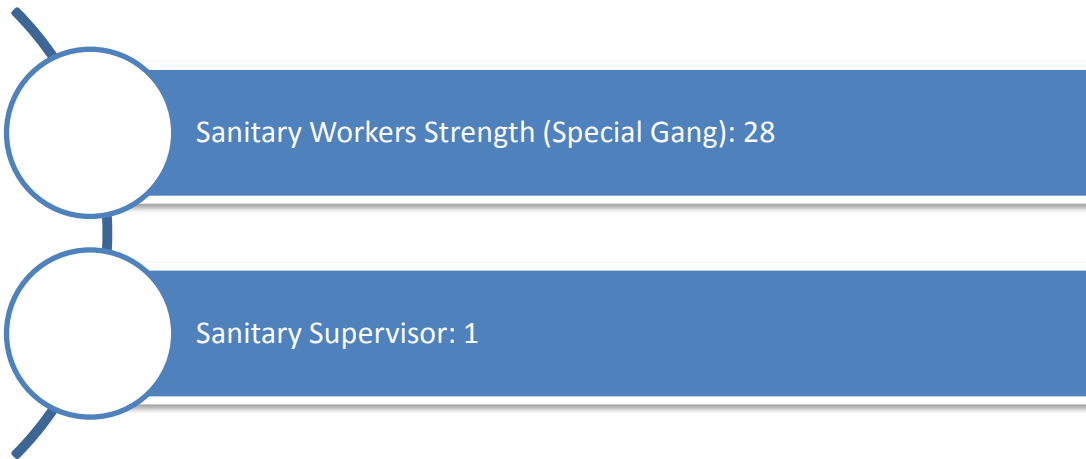
Manual sweeping of the Main roads, important markets, 1139 complaints and PMS Complaints and to co-ordinate compactors and ensure containers collections done with Special Gang (Group of Sanitary Workers) equipped with all necessary operational tools and PPE's (Personal protective equipment's)

- ✓ 2nd shift gang is the disposal of Zonal Officer of Lahore Waste Management Company.

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- ✓ Manual sweeping in 2nd shift with Special Gang is carried out from 2PM to 10PM.
- ✓ Personal protective equipment's include Proper uniform, Gloves, Mask, Proper Shoes, Long Boots and Rain Coat in case of monsoon Season.
- ✓ Operational Requirement for Special Gang includes Broom, Shovel, Wheelie Bin, Waste Bags, and Scrapper.

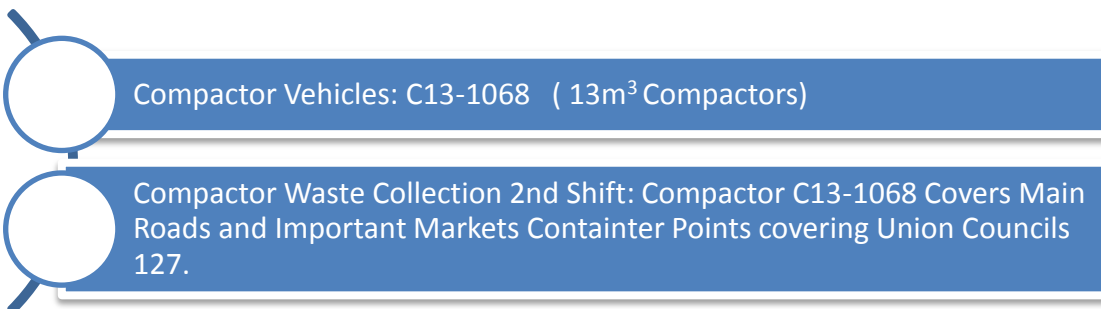
Manual Sweeping Operation Details



Solid Waste Collection Operation (Container Collection)

Solid waste generated is stored in waste containers which are placed all over the Union Council. These waste containers are lifted by Hydraulic Compactor Vehicles moving in the union council on a specific route for the purpose of waste collection and dump the waste at Dumping Site (Mehmood Booti).

Solid Waste Collection Operation (Container Collection) Details



5 Compactor Vehicle Staff Deployment for Union Council

Conservancy Supervisor = Rizwan(0324-4094234)			Supervisor =Ali (0301-5550621)		
1st shift			2nd shift		
UC	Vehicle No.	Driver Name & Mobile	UC	Vehicle No.	Driver Name & Mobile
127	1095	Bashir Faqirya (0311-7000631)	127	1068	Mehtab (0302-4687966)

6 Door To Door Waste Collection

6.1 Old System for D-T-D Waste Collection

- ✓ A year Ago Ozpak deployed one Mini Dumper in each Union Council to enhance the efficiency of Door to Door Waste Collection System but unfortunately they were not fulfilling the sole purpose of DtD Collection in Union Council.
- ✓ Mini Dumper was covering about 70%-80% of the UC area for the purpose of door to door waste collection and the 20%-30% area was dependent on old collection methods and our sanitary workers to collect waste from their door steps and dump it as an Open Heap.

6.2 New System for D-T-D Waste Collection

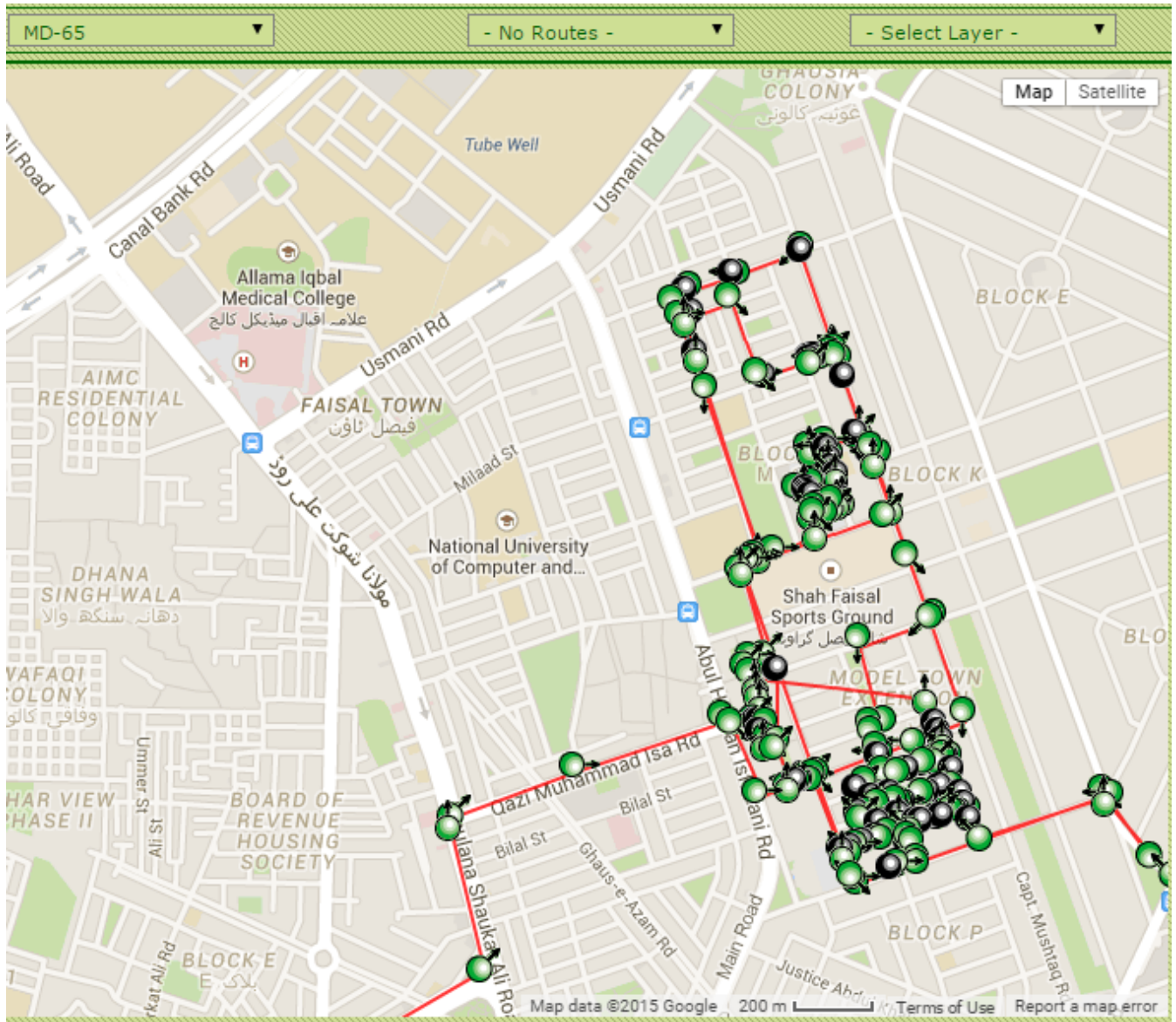
- ✓ Our Mini Dumper Door to Door Waste Collection System was working with 70-80 % efficiency but we have implemented a new plan due to which we are able to achieve 100% Door to Door Waste collection
- ✓ To make sure the efficiency of this plan to be 100% we collected all the background data necessary for the proper functioning of Mini Dumper in Union Council i.e. Original (Local) Names of Minor Streets and Roads to be displayed on the maps so that we can easily monitor and communicate with our responsible person during door to door collection Operation.

Door to Door Collection Details

We have deployed Mini Dumper in each union council i.e. MD-12 in UC-127. Mini Dumper is currently working with OZPAK JINGLE and achieving 100% efficiency, collecting Door to Door waste from all over the union council.



Mini Dumper route :



7 Public Awareness

- Distribution of leaflets along-with bags distribution has been done as per contract.
- Announcement(OZPAK JINGLE) of waste collection when pickup will move in the area
- Involvement of public representatives in mass awareness campaign