



ÖZKARTALLER CAMPAK JOINT
VENTURE

Main Workshop Outfall Road

SOLID WASTE MANAGEMENT PLAN ZONE-16



MAIN CONTENTS

SOLID WASTE MANAGEMENT REPORT

ZONE-16

Chapter 01:	UC-80	JINNAH HALL
Chapter 02:	UC-81	RIWAZ GARDEN
Chapter 03:	UC-82	ISLAM PURA
Chapter 04:	UC-83	CHOHAN PARK
Chapter 05:	UC-85	SANDHA KALAN
Chapter 06:	UC-86	SANDHA KHURD

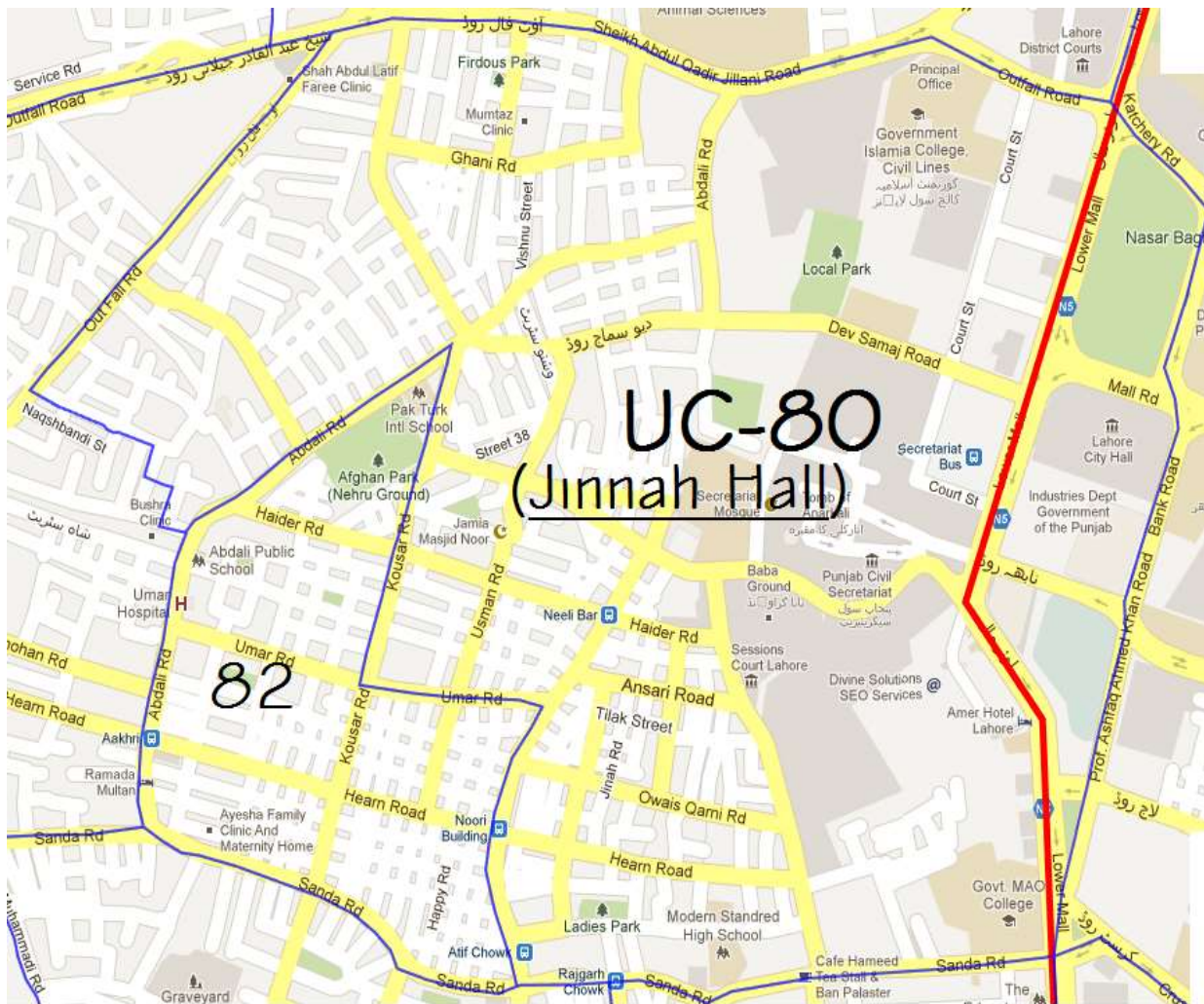
RECOMMENDATIONS

Chapter No. 01

Zone-16

UC-80

JINNAH HALL



PLANNING & MONITORING DEPARTMENT OZPAK

Table of Contents

1. Introduction	3
1.1 Important Places of Union Council-80.....	3
1.2 Solid Waste Generation	4
1.3 Particulars.....	4
2. Solid Waste Management Practices.....	4
3. Operational Activities - First Shift Plan.....	5
3.1 Manual Sweeping Operation	5
3.2 Manual Sweeping Operation Details	6
4. Solid Waste Collection Operation (Container Collection)	6
4.1 Solid Waste Collection Operation (Container Collection) Details	7
4.2 Compactor Vehicles Waste collection.....	7
4.3 C-13-1003 Compactor Vehicles Route:.....	8
4.4 Location and Points of Containers	8
4.5 Container locations on Map UC 80	9
4.6 Weekly Working Plan After 11:00 am.....	10
4.7 Open Plots Pictorial View	10
5. Manual Sweeping Operation - Second Shift Plan	11
5.1 Solid Waste Collection Operation (Container Collection).....	11
5.3 Solid Waste Collection Operation (Container Collection) Details	11
6. Manual Sweeping Operation - Third Shift Plan	11
6.1 Solid Waste Collection Operation (Container Collection).....	11
7. Compactor Vehicle Staff Deployment for Union Council 80	11
8. Door To Door Waste Collection.....	12
8.1 Old System for D-T-D Waste Collection	12
8.2 New System for D-T-D Waste Collection	12
8.3 Door To Door Route Plan for Mini Dumper	13
8.4 Door to Door Collection Details	13
8.5 Md-34 Vehicle Route:	13
9. Special Gang	14
10. Scope Of Work (U.C Coordinator).....	14
11. Public Awareness.....	16

1. Introduction

Union Council – 80 (Jinnah Hall) is located in Data Gunj Baksh Town. Total area of the UC is 10644 m² with population of 664411. This area is predominantly middle income area with planned settlement.



Main Hota Singh Road UC-80



Sant Nagar Chowk Main Road UC-80

Fig: 1. Pictorial View of Main Road UC-80

1.1 Important Places of Union Council-80

From Sanitation point of view Union Council - 80 has important Places like Commercial Markets, Parks, Graveyard Important Roads, and Mosques etc.

Commercial Markets

- Dev Samaj road
- Hota singh road
- Court street
- MAO college road

Graveyards

- There is no graveyard in complete UC

Important Roads

- Lower Mall Road
- Outfall Road

Mosques

- Jamya Masjid Faiz Alam
- Jamya Masjid Latifiya
- Ghani Masjid
- Jamya Masjid Ghossiya Rizwiya
- Motti Muhammadi Masjid

Open Plots

- Nehro Park
 - Hota Singh Road
 - Diyo Smaj Road
-

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

- Hota Singh Road Near Mubarik Masjid



Masjid Faiz-e-Alam UC-80



Muhammadi Hopital UC-80

Fig: 2. Pictorial View of Some Important Places UC-80

1.2 Solid Waste Generation

Estimated solid waste generation is 43.18 tons per day @ waste generation rate of 0.65 kg/person/day.

1.3 Particulars

Phase-A, Union Council 80 (Jinnah Hall)
Malik Tahir (In-Charge/Sheff OZPAK)
Chaudhry Aslam (Zonal Officer LWMC)
Naveed (U.C Coordinator)
Population : 68631
Union Council Area : 10644 m ² (middle income)
Waste Generation (estimated) : 43.18 tons @.65 kg/person/day

2. 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:

3. Operational Activities - First Shift Plan

3.1 Manual Sweeping Operation

Manual sweeping of the roads, streets, markets, footpaths and every paved and unpaved passageway is being 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.



Broom



Hand Cart



Wheelie Bin



Shovel



Proper Uniform with PPE's



Waste Bag



Scrapper



Shovel 1



Monsoon SOP's (Long Boots & Rain Coat)

Fig: 3. 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 1st Shift, 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 waste from the roads, streets and households which are then hauled through wheelie bins and hand carts to the waste containers.

3.2 Manual Sweeping Operation Details



4. 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 temporary Waste Disposal Station Outfall Workshop.

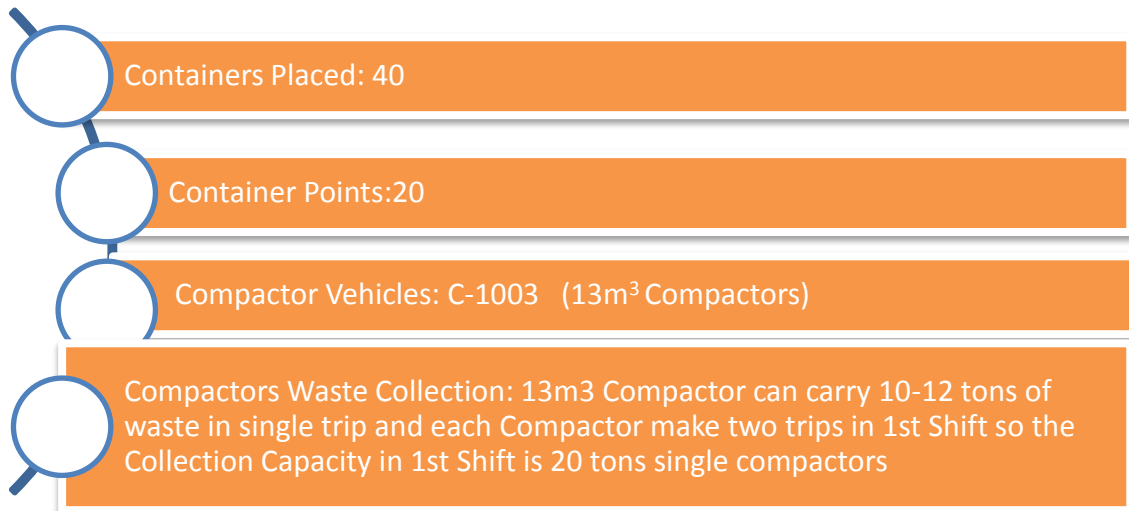
Total 40 waste containers are in place in Union Council at 20 different Points.

- ✓ Total waste storage capacity in 40 containers is 10 tons in one time lifting.
- ✓ These Waste Containers are lifted by Hydraulic Compactor Vehicles having a Compaction Ratio of 1:3.
- ✓ One Big Compactors is deployed for waste collection in Union Council. Each 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.



Fig: 4. Pictorial View of Vehicles & Operational Equipment's for Helpers

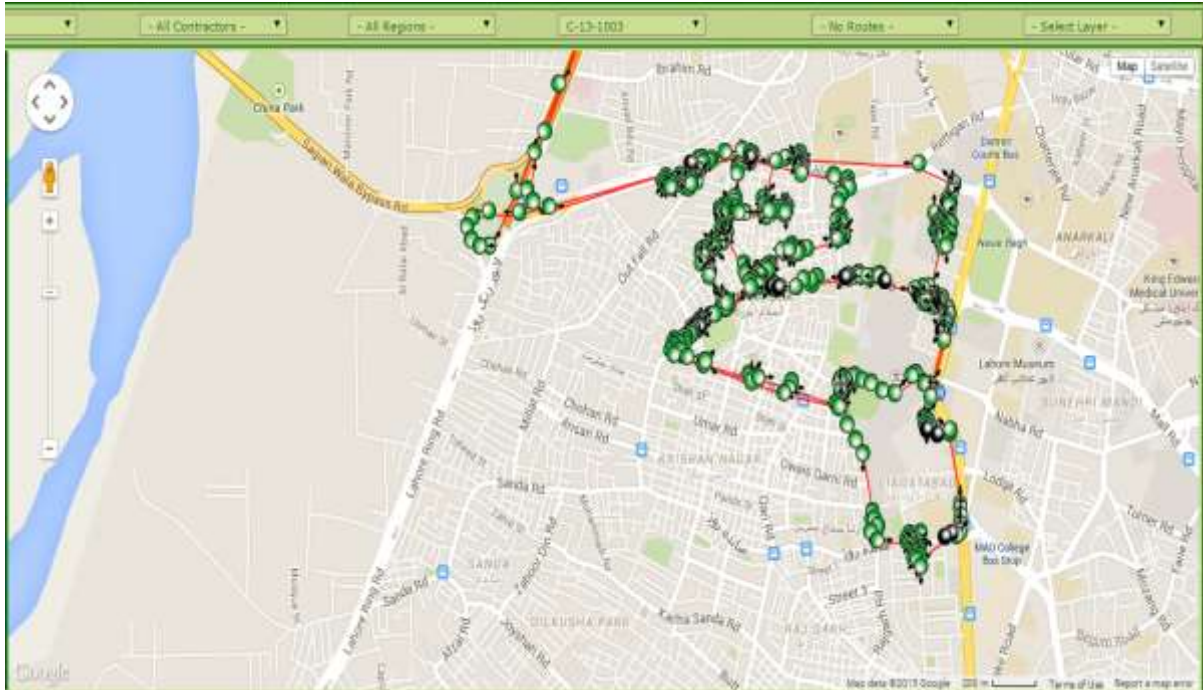
4.1 Solid Waste Collection Operation (Container Collection) Details



4.2 Compactor Vehicles Waste collection

13m³ Compactor 1003 make two trips in 1st Shift to Dumping Site after lifting all Waste containers and Waste Heaps in its route. Approximately it lifts 9000-12000 kg waste in one trip.

4.3 C-13-1003 Compactor Vehicles Route:



4.4 Location and Points of Containers

Sr. NO.	Location	Numbers
1	Dogar Quater	2
2	Wapda office	1
3	Firdous Park	1
4	Soffa plot Outfall road	2
5	Faiz Aalam	1
6	Yousaf Khan Plot	2
7	Nehro Park	6
8	Peepale House	3
9	Liyaqat Abbad Naseer Ud Deen Road	2
10	Liyaqat Abbad Sandha Road	1
11	Lower Maal	1

Özkartallar Campak Joint Venture

12	Session Court	1
13	Fountain House	1
14	Kozi Haleem	1
15	Secretariat	1
16	Islamia High College Court Street	2
17	Court street	2
18	Commissioner Chowk	1
19	Commissioner Office	7
20	Mashriq Akhbar	2
Total		40

Table: 01.Point of containers UC-80

4.5 Container locations on Map UC 80



Map: 01. Location of Containers

4.6 Weekly Working Plan After 11:00 am

Union Council-80	
Day	Areas to Cover
Daily	Firdous Park
	link street of united
	Link street of Zafar Butt

4.7 Open Plots Pictorial View



Dev Samaj Road



Hindu Camp



Hota Singh Road



Laik E Wala Plot



Mubarak Masjid



Sofa Plot

5. Manual Sweeping Operation - Second Shift Plan

5.1 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 temporary waste disposal station Outfall workshop.

5.3 Solid Waste Collection Operation (Container Collection) Details



Compactor Vehicles: C-1056 (13m³ Compactors)



Compactor Waste Collection 2nd Shift: Compactor C-1056 Covers Main Roads and Important Markets Container Points covering Union Councils 80,82 and 83.

6. Manual Sweeping Operation - Third Shift Plan

Manual Sweeping Operation is not carried out in 3rd Shift.

6.1 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 temporary waste disposal station Outfall workshop.



Compactor Vehicles: C-1057 (13m³ Compactors)



Compactor Waste Collection 3rd Shift: Compactor C13-1016 Covers Main Roads and Important Markets Container Points and Problematic Points covering Union Councils 80, 81, 82, 83, 85 & 86

7. Compactor Vehicle Staff Deployment for Union Council 80

In UC-80 there are total four supervisors working under the supervision of sheff. Detail of vehicles deployed in all three shift and contact number of responsible persons are given below:

Conservancy Staff Zone-16						
Overall Incharge = Malik Tahir (0321-4601831)						
Supervisor = Ijaz (0336-8666305) & Chand (0321-8816359)			Overall Incharge = Ali Rajbi (0315-4533505)		Supervisor = Mohsin	
1st shift			2nd shift		3rd shift	
UC	Vehicle No.	Driver Name & Mobile	Vehicle No.	Driver Name & Mobile	Vehicle No.	Driver Name & Mobile
80	1003	Abdul Rashid (0300-4374585)	1056	Majid Khalil (0301-4242156)	1057	M. Arif (0322-4415804)

Table: 02. Conservancy Staff UC-80

8. Door To Door Waste Collection

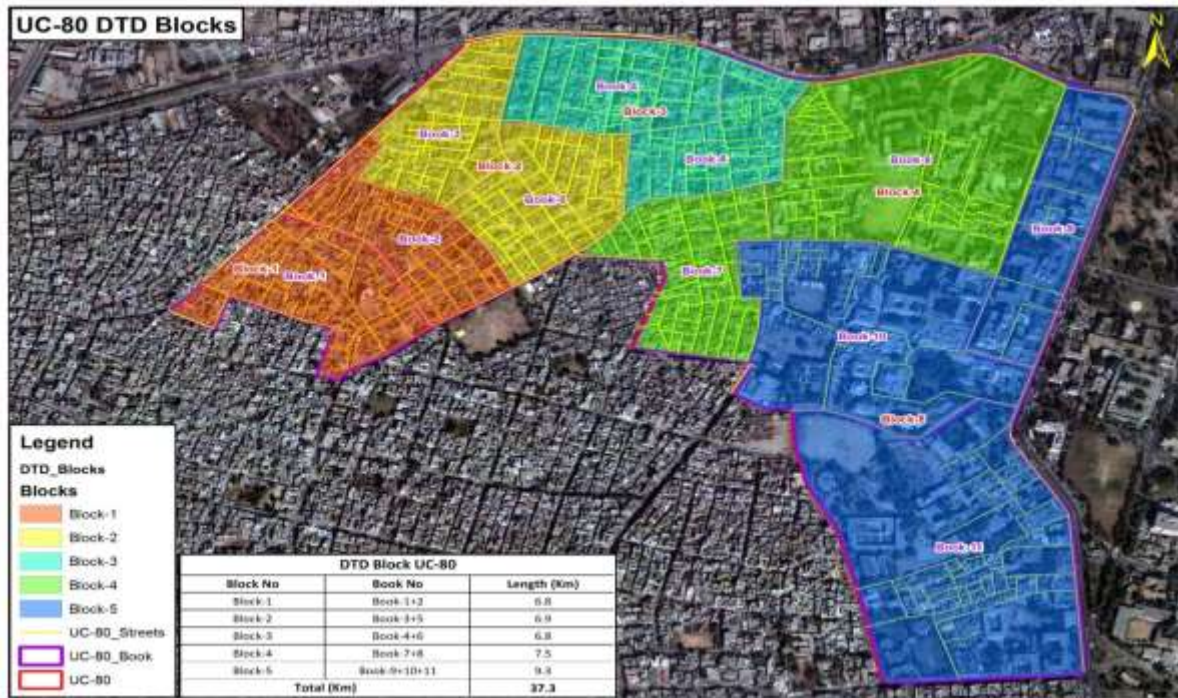
8.1 Old System for D-T-D Waste Collection

- ✓ 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 D-T-D Collection in Union Council.
- ✓ Mini Dumper was covering about 30%-40% of the UC area for the purpose of door to door waste collection and the 60%-70% 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.

8.2 New System for D-T-D Waste Collection

- ✓ Our Mini Dumper Door to Door Waste Collection System was working with 50-70 % 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.

8.3 Door To Door Route Plan for Mini Dumper



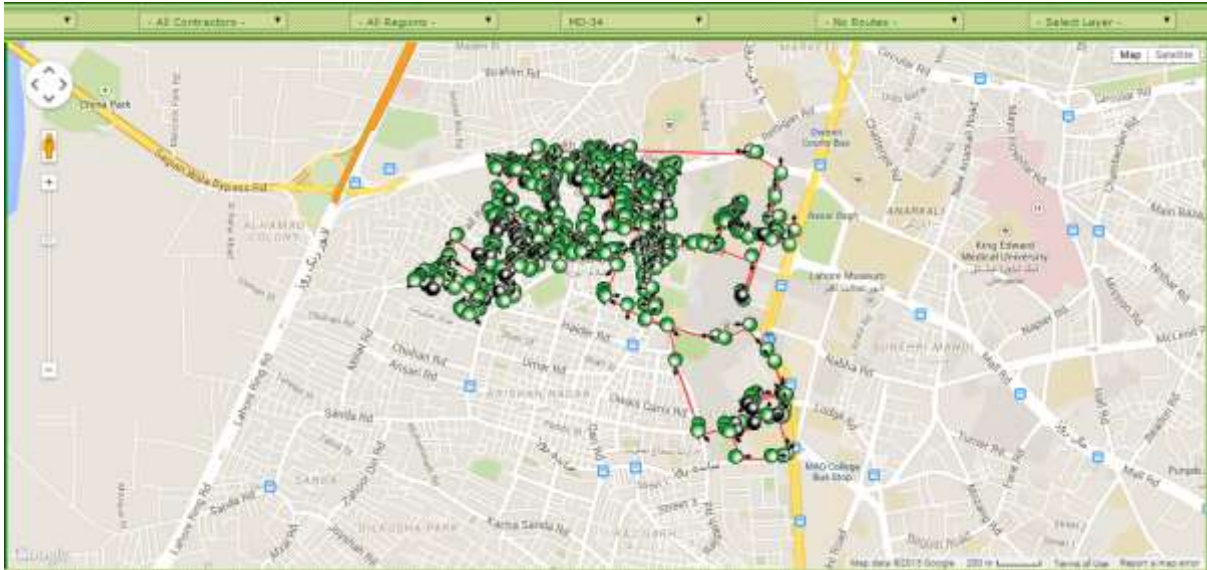
Map: 02. Door to door Mini Dumper Route UC-80

8.4 Door to Door Collection Details

MD-34 is the code of mini dumper which is deployed for UC-80 working with OZPAK JINGLE and achieving 100% efficiency, collecting Door to Door waste. It start working in UC from 06:00 am and covered all areas of UC like Court Street Zillah Kachehri, Hindu Camp, Dev Samaj Road, Hauta Singh Road, Ghani Road, Firdous Park, Ganga Street, Ghani Road, Yusuf Khan Wala Plot, DCO, Khyber Park, Hare Laaj Road, Neel-i-bad Chowk, Laal Masjid Kasur Pura, People Bao Maher, Liaqat-a-bad, Session Court etc. In the narrow streets where mini dumper is unable to enter then it is helper duty to go inside and collect waste in shoppers from every house of the streets and finally dumped in the mini dumper.

- Mini Dumper: MD-34
- Mini Dumper Driver: Tariq Akram (0322-4272338) with 1 Helper (Properly Equipped)

8.5 Md-34 Vehicle Route:



9. Special Gang

Special gang is a team consists of thirteen workers with a driver and a supervisor. Special Gang solely on Shef / ZO's disposal to attend important complaints and to work for absent workers beats of the day.

Special gang covers following activities:

- Open plot cleanliness
- Cleanliness of absent workers beats
- Important complaints (1139 and residents complaints)
- Main road clearness like (Chuburji to kachahri lower mall road, Kachari chowk to shell pump outfall road and People house to secretariat road)



10. Scope Of Work (U.C Coordinator)

06:00AM-07:00AM

Attendance Points:

- ❖ Manual and Android Cards Attendance Marking on these fixed attendance points
 - Dev Samaj Road
 - Hari Laj Road
 - HotaH Singh Road
 - Court Street

Finding Problematic Points & Deployment of Human Resource and Machinery:

- ❖ Check arrival of Compactor and Mini Dumper in Union Council
- ❖ Deploy Human Resource on Main Roads, Commercial and Residential Areas
- ❖ Highlight important open heaps points and problematic over flowed containers to Compactor and Mini Dumper drivers to attend on priority.

07:00AM-08:30AM

- ❖ Check Manual Sweeping on Main Roads, Sanitary Workers Attendance and Containers Collection.
 - Dev-Samaj Road and attached street + 11 containers
 - Court Street & Hota Singh Road, Attached streets and Open heap + 3 Containers
 - Ghani Road
 - Faiz e Alam Road
 - Hari Laj
 - Mithai Chowk Open heap
 - Faiz e Alam Mosque container
 - Itwar Bazar Open heap
 - Peoples House container +4

08:30AM-09:00AM

- Distribution of Waste Bags, Rechecking the Main Roads and Communication with compactor Drivers

09:00AM-10:00AM

- ❖ Check Manual Sweeping, Worker Attendance, Container Collection & Door to Door Waste Collection in Inner (Residential) Areas.
 - Hindu Camp 1, 2 + Kozi Haleem, Liaqtabad, Session Court + 5 Containers
 - Dispensary Ahatah, Islamia High School + 5 Containers
 - Johri Park, Kajhour Wali Ground, Sofa Plot + 2 containers
 - Bao Muhallah and also Inspect Door to Door Collection
 - Sayed Hotel, Afghan Park, Khyber Park, Yousaf Park

- ❖ During Visit Focusing on Manual sweeping Quality, presence of worker in allocated area, Door to Door Collection efficiency and staying in touch with compactor driver for timely lifting of containers.

10:00AM-10:45AM

- Break Time from 10:00am to 11:00am
- Workers gather at attendance point.

11:00AM-01:30PM

- ❖ Divide work force in groups to cover empty areas, absent worker area, problematic areas are and open plots.
- ❖ Check working in empty areas, open plots.
- ❖ Resolve PMS & 1139 Complaints on priority basis if any
- ❖ Checking again main roads manual sweeping & container collection including some problematic container points
 - Dev-Samaj Road
 - Court Street
- ❖ In Final Round Checking focus is to check Group Working, Main Roads Sweeping and Container Collection of important Points.

01:30AM-02:00PM

- ❖ Manual and Android Cards Attendance Marking on these fixed attendance points
 - Dev Samaj Road
 - Hari Laj Road
 - Hota Singh Road
 - Court Street

11. 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