

# SOLID WASTE MANAGEMENT PLAN FOR UC-132 TOWNSHIP-1

This operational document contain the brief summary about the characteristics of the area, mechanism regarding the deployment of manual and mechanical resources, so it may be considered as brief operational guide for UC-132.

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### 1. Facts

UC	132
NAME OF THE AREA	Town ship
CATEGORY	Urban
POPULATION	65630
HOUSEHOLDS	13126

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<b>GENERATION</b>		36.0965	
<b>MAJOR ROADS</b>		Molana Shaukat Ali road College Road Madina Road	
<b>MARKETS</b>		Madina market jinnah market 8-Block market Cards wal market Sarafa Mareket	
<b>MOSQUES</b>		Madina masjid 3-Block wali masjid Masjid paka ground Masjid ul qudas	
<b>IMAM BARGAH</b>		Qaisar punjtan pak Qaiser abbas Imam Bargah	
<b>EDUCATIONAL INSTITUTES</b>		Government Girls & boys high school	
<b>SANITARY WORKERS</b>	<b>MALE</b>	<b>REGULAR</b>	6
		<b>WC</b>	12
		<b>S &amp; C</b>	0
		<b>Z &amp; C</b>	11
		<b>TOTAL</b>	29
	<b>FEMALE</b>	<b>REGULAR</b>	5
		<b>WC</b>	3
		<b>S &amp; C</b>	0
		<b>Z &amp; C</b>	4
		<b>TOTAL</b>	12
<b>GRAND TOTAL</b>			41
<b>STATIONARY RESOURCES</b>	<b>NUMBER OF CONTAINERS</b>		48
	<b>STORAGE CAPACITY (1 TIME LIFTING)</b>		14.2
	<b>HAND CARTS</b>		20
	<b>WHEELY BINS</b>		15
<b>MECHANICAL</b>	<b>COMPACTOR</b>	<b>1st SHIFT</b>	1137

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<b>RESOURCES</b>	<b>(7 m3)</b>	TRIPS	2
		TRIPS	0
		2nd SHIFT	0
	<b>COMPACTOR (13 m3)</b>	1st SHIFT	1067
		TRIPS	1
		TRIPS	1
		2nd SHIFT	1067
	<b>MINI DUMPER</b>	1st SHIFT	51
2nd SHIFT		0	

## 2 Introduction

Union Council – 132 (Township-1) is located in Allama Iqbal Town. Total area of the UC is 1179995 m<sup>2</sup> with population of 65630<sup>1</sup>. This area is predominantly middle income area with planned settlement.

**Figure 1: Map of UC 132 Township-1**



## 3 Solid Waste Generation

Estimated solid waste generation is 36.50 tons per day @ waste generation rate of 0.55 kg/person/day.

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

#### 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:

#### 5 Street Sweeping and Waste Collection by Sanitary Workers

##### Block Cleanliness Schedule:

UC 132 has been divided in to 18 blocks, the areas of the blocks having main roads, commercial markets, public buildings (schools, colleges, mosques) are being swept on daily basis (details given in beat list). By keeping in mind the characteristics of the remaining block area (blocks didn't need sweeping on daily basis), so a weekly plan of cleanliness of blocks is being summarized in the following table.

S.N	NAME OF THE BLOCK	DAY
1	Block 6, block 14, block 13	Monday
2	Block 5, block 15	Tuesday
3	Block 4, block 12, block 9	Wednesday
4	Block 3, block 11 and 16	Thursday
5	Block B-2 and 7	Friday
6	Block 10, 1 and B-2	Saturday
7	Main roads	Sunday

- 7 sanitary workers deployed in each block.
- Solid waste is collected by sanitary workers from streets and hauled to container by wheelie bins / hand carts and waste bags.
- Waste bags also used for roads sweeping.

#### 6 Beat list of the workers

The names of sanitary workers along with their designated areas are presented in the following table.

S.N	NAME OF WORKER	DESIGNATED AREA
1	Basheeran kulla	Civil defence road and block 6
2	Sughran shoukat	Al kareem chowk (Abubakar road to barkat chowk)
3	Rehana javaid	Al kareem chowk (Abubakar road to

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		barkat chowk)
4	Javaid ghulam	Al kareem chowk (Abubakar road to barkat chowk)
5	Kramat manzoor	Alkareem chowk to block 4
6	Khalil manzoor	Drain to 4 block bridge
7	Rocus manzoor	Compactor 1067 and samosay wali main
8	Aashiq pooran	Main peeco road to mocha pura
9	Barkat daleep	Mocha pura to akbar chowk
10	Safdar sadiq	Akbar chowk to college road
11	Shoukat meraj	Muhammad ali chowk to barkat chowk
12	Azra aslam	Block 13, sector B-1
13	Joseoph hazara	Block 14, sector B-1
14	Khalid barkat	Khajjian wali main and block 2
15	Rasheed	Kashmeer road and block 13
16	Sardar anwar	Srafa bazar block 12
17	Nasir barkat	11 and 12 block main
18	Anayat wasakhi	15 block and aslam chowk main
19	Zahra anayat	15 block and aslam chowk main
20	Rafaquat	Al madina road
21	Khurram basher	Block 8, sector B-1
22	Basher noor	Al madina road
23	Naseer noor	Al madina road
24	Grace ghafoor	Jinnah market
25	Nadeem anokha	Block 12
26	Rukhsana anayat	Main of block 12 and 13
27	Nazeer hazara	Block 13
28	Zareena pervaiz	Block 9
29	Saddique nawab	Second time compactor
30	Abdul majeed	Second time compactor
31	Nazeer barkat	block 7, sector B-1
32	Mukhtar	Block 4 and 3, main of block 4
33	Sadiq sohan	Main market
34	Shehbaz sardar	Second time compactor
35	Pervaiz	Jinnah market
36	Nazeeran baloch	Block nill, sector B-2
37	Altaf anayat	Compactor and B-2
38	Binyamin basher	Block 2 sector B-2
39	Hanifan sarwar	Block number 5, sector B-1
40	Anayat boota	Almadina road
41	Basher boota	Block 3 sector B-1

<b>Overall In-charge Manual Sweeping</b>	M Mansha 0314-4402965
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**6.1 2<sup>nd</sup> Shift Arrangement - 2 PM to 10 PM**

Manual Sweeping - Special Gang		
Shift In-charge	1	
Sanitary Workers	17	
Driver	1	
<b>Note:</b> for taking care of whole Zone-22, attending major roads, markets, 1139 complaints and to coordinate compactors and ensure containers collection.		

**7 Solid Waste Storage**

**7.1 Waste Storage Facility**

- Currently 62 waste storage containers are placed at 31 different points.
- Storage capacity is 16 tons in one time lifting
- Lifting is operational in 2 time

**7.2 Points of Containers**

Sr. No.	Location	Number
1	Graveyard block 2 township	2
2	495 B1 Block 4 town ship	1
3	294 B1 Block 3 Town ship	1
4	Shahzaib Auto Block 3 town ship	2
5	Civil technology Block 2 town ship	1
6	45 B1 Block 1 Town ship	1
7	Quick battery Service Peco road	1
8	Mochi pura Market town ship	1
9	Kashmir road town ship	6
10	Total pump peco road	1
11	Akbar chowk College road township	1
12	Chaugry traders Kshmir road College raod town ship	1
13	Aadil CNG College road township	1
14	526 B1 Block 15 college road township	1
15	Muhammad ali chowk college road township	7
16	Alkarim chowk Near Umer autos town ship	2
17	Waseem autos near church Block 5 town ship	1
18	Tahir autos workshop Block 5 township	1
19	Barket chowk madina road township	2
20	Ghosia market township	4
21	Sheikh and sons rice store near gov high school town ship	2
22	Jamia masjid Almadina Market township	4



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23	Bismillah beaf shop Bohr wala chowk town ship	3
24	Main gate Govt High school Block 4 township	1
25	Almadina store Block 4 township	2
26	Govt Primary school Block 5 township	1
27	Lahori pan shop Block 3 Township	1
28	Govt Girls high school Block 3 township	2
29	Shiek samosa Block 3 town ship	3
30	Aslam chowk green belt college road	2
31	Inside Govt girls high school	3
<b>Total</b>		<b>62</b>

## 8 Solid Waste Collection & Transportation

### Route for Compactor

The detail of compactors deployed for container based collection along with their operational routes and time & motion study is being summarized in the following table.

COMPACTOR NUMBER: 1067 (13 m3, 1 trip)			
Shift: 1 <sup>st</sup>			
DRIVER NAME :Muhammad Ali			
CONTACT NUMBER:0347-7613050			
APPROXIMATE MILEAGE:			
DIESEL CONSUMED:			
PER KILOMETER DIESEL CONSUMPTION:			
S.N	LOCATION OF CONTAINERS	NUMBER OF CONTAINERS	TIME OF LIFTING
1	Barkat chowk	3	7:25 am
2	Abubakkar road	1	7:30 am
3	Alkareem chowk drain nalla	6	7:47 am
4	Main peeco road	0	7:50 am
5	Mocha pura	1	7:53 am
6	Al madina road	5	8:10 am
7	Mandi	7	8:57 am
8	Qabaristan	1	9:09 am
9	Kashmir road	2	9:46 am
10	Aslam chowk	2	10:04 am
11	13 block	0	
12	Pakka ground	2	10:30am
<b>Total</b>		<b>30</b>	<b>175 min</b>

COMPACTOR NUMBER: 1137 (7 m3, 2 trip)			
Shift: 1 <sup>st</sup>			
DRIVER NAME : Rasheed			
CONTACT NUMBER:0313-4143957			
APPROXIMATE MILEAGE:			
DIESEL CONSUMED:			
PER KILOMETER DIESEL CONSUMPTION:			



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S.N	LOCATION OF CONTAINERS	NUMBER OF CONTAINERS	TIME OF LIFTING
1	5 block	1	6:53 am
2	7 block	1	7:51 am
3	Samoso wali main	2	8:05 am
4	3 block	0	8:15 am
5	13 block	2	8:32 am
6	14 block	0	8:40 am
7	15 block	2	8:53 am
8	12 block	0	0
9	9 block	1	9:10 am
10	6 block	1	9:25 am
11	2-2 B-2 block	1	10:07 am
S.N	LOCATION OF CONTAINERS	NUMBER OF CONTAINERS	TIME OF LIFTING
1	Market	7	10:15 am
2	7 block school	0	
3	Samosian wali main	0	
4	Qabaristan	1	10:22 am
5	Al-madina road	5	10:37 am
6	Nala	6	10:45 am
<b>Total</b>		30	247 min

COMPACTOR NUMBER: 1090 (7 m3, 1 trip)

Shift: 2<sup>nd</sup>

DRIVER NAME :Javaid Yousaf

CONTACT NUMBER:0312-1258994

APPROXIMATE MILEAGE:

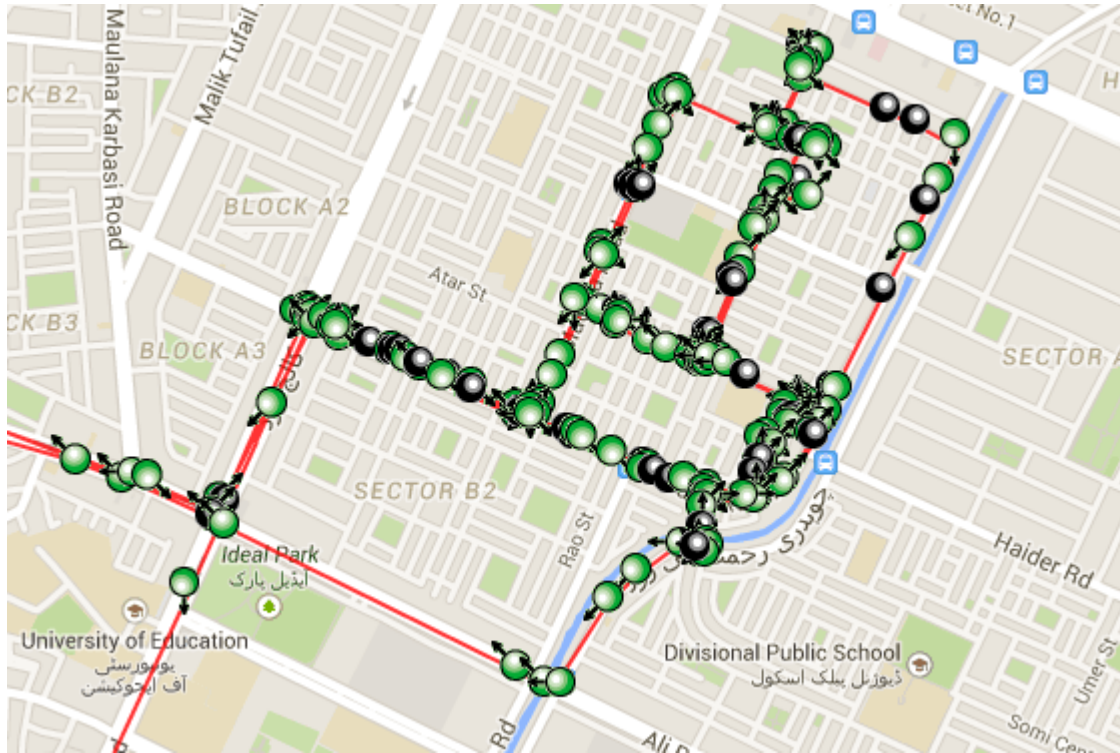
DIESEL CONSUMED:

PER KILOMETER DIESEL CONSUMPTION:

S.N	LOCATION OF CONTAINERS	NUMBER OF CONTAINERS	TIME OF LIFTING
1	main peeco road	0	4:18 pm
2	Block number 5	1	4:31 pm
3	College road	3	4:46 pm
4	Samoso wali main	2	5:01 pm
5	Qabristan	1	5:06 pm
6	Al madina road	5	5:21 pm
7	Kashmir road	2	5:29 pm
8	13 block pakka ground	2	5:41 pm
<b>Total</b>		16	83 min

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### 8.1 Staff Deployment for Compactor Vehicle

Zone-22						
SR.NO	Driver Name	Computer No.	Shift	Vehicle No.	UC	Contact No.
1	Muhammad Akbar S/O Muhammad Hayat	HR.216	1ST	C-13-1008	133	0321-4162613
2	Jahangir Masih	HR.670	1ST	MD-51	132	0315-4249958
3	Amanat Masih S/O Laal Masih	HR.751	1ST	C-13-1029	1191 20	0305-4716028
4	Sadeeq Masih S/O Sayd Masih	9064	1ST	C-13-1061	116	0321-4275659
5	Khurram Shahzad S/O Muhammad Nazir	30227	1ST	C-13-1062	116	0321-4588900
6	Waris Ali	HR.741	1ST	C-13-1067	132	0324-4977517
7	Saleem Mukhtaar S/O Mukhtaar	13748	1ST	C-13-1085	120	0323-4988212
8	Akbar Khan S/O Ayyub Khan	HR.487	1ST	C-13-1005	120	0306-4660447
9	Naeem	HR.842	1st	C-7-1137	132	0305-4043194
10	Khalid Hussain Butt S/O Ghulam Hussain	HR.765	1ST	C-7-1136	133	0300-4975662
11	Nazaqat Ali S/O Rayasat Ali	25229	1ST	MD.13	120	0343-4907789
12	Rehman Syd. S/O Muhammad Syed	26615	1ST	1082	132	0346-4642047
13	Amanat Ali	HR.455	1ST	MD.66	119	0312-4357635

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14	Kamran Niamat	29881	1ST	MD.68	116	0322-4643677
15	Imran Barkat	HR.587	1ST	MD-002	120	0300-4926964
16	Muhammad Sharif	HR.737	1ST	MD-23	133	0322-4273850
17	Nasir	HR-863	1st	Spare		0316-4093814
<b>2nd shift</b>						
1	Hameed	HR.792	2nd	C-7-1029	118-119-120	0311-6516412
2	Akram Ali S/O Hashmat	29185	2nd	C-13-1069	116	0307-4799566
3	Muzammail Hussain S/O M.Nawaz	13547	2nd	C-13-1085	120	0313-8184111

## 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

<b>Mini Dumper / Suzuki Pickup</b>			
<b>Block 1</b>	6:00 am to 8:00 am	<b>Block 2</b>	8:00 am to 10:00 am
<b>Block 3</b>	10:00 am to 11:00 am	<b>Block 4</b>	11:00 am to 12:30 pm
<b>Block 5</b>	12:30 pm to 2:00 pm		

<b>Block</b>	<b>Major Areas/ Mohalla's</b>
<b>Block 1</b>	Block No. 1, B 1 Township, Block No. 2, B 1 Township, Block No. 3, B 1 Township, Govt. High School Girja 3 Block

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Block 2	Block No. 4 Imam Bargah, Block No.5 Girja Chowk, Block No. 6, 1 B, Block No. 7, 1 B, Block No. 8, 1 B, Block No. 9, 1 B
Block 3	Block No. 10, 1 B, Block No. 11, 1 B, Block No. 12, 1 B, Block No. 13, 1 B, Block No. 14, 1 B, Block No. 15, 1 B
Block 4	Block No. 16, 1 B, Block 2, B2 Township, Ganda Nalla Peco Road to Akbar Chowk, Akbar Chowk to Muhammad Ali Chowk
Block 5	Abu bakar road to al kareem chowk, Akbar Chowk to Ganda Nalla Peco Road, Ganda Nalla Peco Road 9 Block