

To –Investment commission in Basrah province .

Sub-A study about the situation & cleaning .

A comprehensive study have been prepared in the center of Basra municipality directorate the amount of threw waste to one person and in one day have been

Restricted in the center of Basra and here is a summery for this study.

1- City center people with homeless families are about (1500, 000).

2- Each 200 person needs one worker and according to the prepared study the total number to the workers 7500.

3-according to the approximately study the one person is threw in one day one kg. Of garbage and the commercial rubbish about 20% kg, industrial 10%, and the total threw garbage for one person 1.2 kg.

4- The daily threw to the city in general 2340 ton daily.

Public and sub-streets

Through the realism study and the comparison between the number of the heart of the city and what its roads need of cleaning workers so every 200 individual needs one worker so the approximately number of worker is 7500 worker .

Were prepared from the above table shows the comparison between the robotic and human effort which is required to provide access to the real situation of cleaning in the city .

The current reality of how to work in residential areas :

<b>Number of mechanisms</b>	<b>Cargo tonnage rate</b>	<b>Total down loads</b>	<b>Total tonnage per day</b>
<b>250</b>	<b>3 ton</b>	<b>2</b>	<b>1500</b>

**Therefore the deficit was 800 tons of waste would need to back-up mechanisms to make up the shortfall in provision the services .**

Seq.		No.	Proposed actual load	The number of time	Tonnage daily throw
1.	Squeezer of waste the container lifting mechanism	80	3ton	2	720
2.	Dump truck	2	35ton		Use for industrial cleaning
3.	Middle excavator	4			"
4.	8 ton car	10			"
5.	8 ton container	80			"
6.	Big street broom	30			"
7.	Middle street broom	10			"
8.	Middle bulldozer	4			"
9.	grader	2			"
10.	Street container	4			"
11.	Dump Laurie	28			"
12.	Excavator	14			"



Seq.	Material type	Actual need	Quantity at the official exchange rate	Quantity at the trading exchange rate	Total price of both
1.	Gas oil	350,000 LTR	160x350=56000000	190x750=142500000	198500000
2.	Diesel oil	20,000	6000x1000=6000000	14000x2000=28000000	34000000
3.	Gasoline oil	5000	400x750=300000	4600x2000=9200000	9500000
4.	Hydraulic oil	5000	800x750=600000	4200x2250=9450000	10050000
5.	C oil	1000	350x750=262500	650x2000=1300000	1562500
6.	Grease	300kg	540kg =3 barrel	1 barrel x 110000	614000
the Total of a full year				254226500x12=3,050,718,000	

Actual need for fuel and oil

### **Cleaning equipments**

Seq.	Type of material	Actual need yearly	Cost
1.	Iron wheel barrow	1200	42000,000
2.	Handle shovel	4000	22,000,000
3.	Garbage collector stick	3000	165,000,00
4.	Manual sweeper	15000	60,000,000
5.	Business suit	18000	52000,000
6.	Stick of handle shovel	2000	4,000,000
7.	Stick of broom	2000	2,000,000
			198,500,000

**Actual need of found for spare parts**

Seq.	Type of work and material	Cost in Iraqi dinars per year
1	Tires of different size	500000000
2	Batteries of different size	100000000
3	Spare parts and repairs	600000000
The Total cost in Iraqi dinar		1200000000

	rewards and incentives for the market and the effort of the workers (morning and evening )	
1	Dangerous for the drivers who are in the cleaning staff.	300000000
2	Wages for over time	540000000
3	The salaries of drivers with employment contract	720000000
	Total	2,160,000,000

**Summary of the amounts**

1.	Wages of the cleaners (5980) workers	15,069,600,000
2.	Cleaning material	198,500,000
3.	Maintenance of machines	1,200,000,000
4.	Bonuses , salaries ,dangerous, and additional hours for The drivers	2,160,000,000
5.	The purchase of diesel oil	2,380,000,000
6.	Oils	668,718,000
7.	Fuel	2,382,000,000
	Total	24,058,818,000

**The actual need for the working machine in cleaning field**

Seq.	Machine	No.	Assessment value
1	Waste squeezer 8 ton with lifting machine	80	8,000,000,000
2	Dump trailer 35 ton	2	6,00,000,000
3	Medium shovel with steel track	4	1,000,000,000
4	Container lifter truck	10	8,00,000,000
5	Waste collector container	80	4,00,000,000
6	Big streets wiper truck	30	9,000,000,000
7	Medium streets wiper truck	10	2,000,000,000
8	Medium bulldozer	4	1200,000,000
9	Grader with steel track	2	700,000,000
10	Steel flatter with shovel	4	800,000,000
11	Dump Lurie six wheel	28	42,00,000,000
12	Circular shovel	14	62,00,000,000
Total			34,900,000,000
Nylon bag plant			3,500,000,000
Total			38,400,000,000