



Karak Composting Facility

The Facility Manager

Eng. Mohammad Ma'aitah

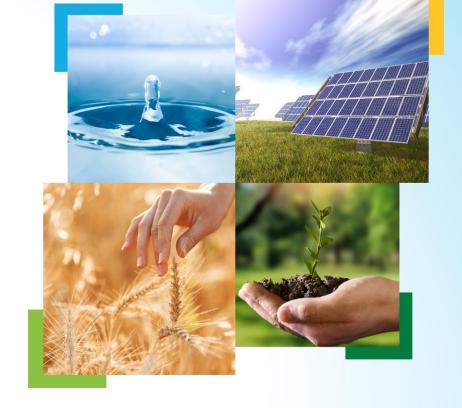
Coordinate • Collaborate • Co-create











Supported by







Historical Background





The German-Jordanian Cooperation

- The rationale behind establishment of the facility is to implement the cashfor-work mechanism to support the WtpE project target beneficiaries; the Syrian refugees and the Jordanian vulnerable in hosting community, while enhancing waste management in partners municipalities.
- The facility serves as a tool to demonstrate an economically and environmentally sound management of organic waste in Jordan.
- Precious organic waste materials are collected, sorted, and processed into marketable high-quality compost. In so doing, this opens avenue for jobs opportunities and reduces mounting pressure on landfill

An Overview of Karak Composting Facility





- Established on a total area of 20 dunums.
- The current design capacity of approximately 5 metric ton a day and still expandable to process 30 metric ton a day
- Equipped well with necessary basic infrastructure and machinery
- Operated in September 2019
- Right now, only one-third of this capacity is fulfilled (1.7 metric ton a day)

Feedstock (Botanical Waste & Animal Manure)





1. Locally generated botanical waste



Feedstock (Botanical Waste & Animal Manure)





2. Animal manure



Infrastructure





1. Hangars and offices





Infrastructure





2. Composting operation platform The expansion plan is underway









Shredding Machine







Wheel Loader







Turning Machine







Screening Machine







Final Product (Compost)





 C.O.A No.: F20/02/19
 Date of certificate: 16/02/2020

 مساحب العينات: WTPE project / GIZ
 عدد العينات: عينة كمبوست

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 تاريخ البدء بتحليل العينات: 2020/29

 القائم بالتحليل : الهام ابورمان / م. هجة الشويكي

اسم العينه:	رقم التشغيله:F/20/ 044	الرقم المخبري:2020/097

No.	Test Name	Result	Unit	Test Method No.
1.	рН	7.8		AOAC 973.04,DM
2.	EC	2.8	dS/m	AOAC 973.04,DM
3.	Ash	49.5	wt/wt %	AOAC 967.04,DM
4.	Moisture	17.7	wt/wt %	AOAC 967.03,FM
5.	Organic Matter	50.5	wt/wt %	AOAC 967.05,DM
6.	N	1.8	wt/wt %	AOAC 955.04,970.02,978.02,DM
7.	P ₂ O ₅	0.8	wt/wt %	AOAC 957.02,958.01,977.01,DM
8.	K ₂ O	1.9	wt/wt %	AOAC 983.02,DM
9.	Ni	15.3	ppm	AOAC 965.09,DM
10.	As	<0.15	ppm	AOAC 965.09,DM
11.	Se	<0.06	ppm	AOAC 965.09,DM
12.	Cd	<0.0012	ppm	AOAC 965.09,DM
13.	Pb	5.4	ppm	AOAC 965.09,DM
14.	C/N	16:1		
15.	Foreign particles (glass,plastic) after seiving with 10 mm mesh	0.8	wt/wt %	Gravimetric , Fresh weight

ملاحظة: النتيجة لا تمثل إلا العينة المستلمة

مديو مديوية المختبرات

ه سيل بني هاني

4725071 Fax 4196364736095 P.O.Box639-Baq19381 Jordan

Web site: www. narc .gov.jo

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نوع العينات :كمبوست	ت /د نبيل بني هاني	صاحب العينات: مشروع الكومبوس
ــي ،میساء درویش	القائم بالتحليل: سمسر قدوه	تاريخ استلام العينات 2/2/2020
	Batch No. M/20/15	

Lab No.	Fecal coliform/g	E.coli/g	Salmonella/g
34	Zero	Zero	Negative

النتيجة لا تمثل الا العينة المستلمة

رئيس قسم الأحياء النقيقة مبير مديرية اله

د. نبیل بن

Director of Laboratories





Quality of Compost

Higher than the required Jordanian Standard

Feedback of End-User on Karak Compost





Satisfaction is leading to increased sales







Vision of Karak Municipality

1. Moving forward with the facility from pilot level to commercial level especially that the compost produced has been tested and tried through NARC.

2. Partnership with Private Sector for sustainable operation of the composting facility.





Contact Details

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Manager of Composting Facility

Municipality of Karak

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