

Wadi Misr Compost

About Wadi misr Company:

We are one of the largest companies in the region to supply Organic fertilizer in all types and sizes. **Our company** operates and maintains five (Converting waste into organic fertilizer) factories (compost) which are created by the Egyptian government that are within the state's plan to recycle solid and agricultural waste into organic fertilizers.

Our factories are working with a collective capacity of 1000 tons (compost) per day in order to supply the growing agriculture market with Organic fertilizer and to contribute to the economic development in this region In addition to 250 tons RDF per day. Now new factories are established.

These factories are strategically located at our branches all over Egypt to ensure swift service to all our customers wherever they are.

The amount of organic fertilizers which produced from our plants during 2015 and up to the time of 2016 estimated **by about 50,000 tons**

Moreover, the amount of waste which has been collected, composting and recycling, transport and supply locally and exported abroad during 2015 and up to the time of 2016 estimated **by about 70,000 tons' waste** (20,000 tons of solid waste, 20,000 tons of rice straw, 10,000 RDF and rubber waste and 20,000 tons of wood cotton, fruits and citrus residues) which supplied for the Egyptian Ministry of Agriculture and cement companies.

We are committed to the satisfaction of our customers by constantly working to elevate the level of our services as well as our products. Our team of employees are well trained and highly educated to provide our customers with the latest information in the field and the best service possible.

We are equally dedicated to the community where we live and work in, so we have invested in environmentally friendly systems to help preserve our country. Wadi Misr Company is a supplier whom customers and the community can depend on as a trusted leader in The products that we manufacture and supply.

Our Vision: it is the vision of Wadi Misr Company to be a leading producer of a large diversity and high standard products in the region. Our qualified team using the latest machinery and expanded production lines plus an extensive infrastructure will enhance our products to achieve and maintain ISO standards.

Our Mission: Wadi Misr Company's mission is to produce high quality products that conform to international and local standards. Our knowledgeable and highly professional team handles the needs of our customers by supplying aggregates on time and at reasonable prices

Our Values: The core values of Our Company are at the center of every decision made by all. Our values are central to our success.

We believe in:

- The Highest Quality Products
- Excellent Customer Service
- Creating Shareholder Value
- Employee Development
- Health and Safety
- Giving to Our Communities

Our products:

1- Compost and Organic fertilizers: -

About Compost and Organic fertilizers:

➤ Terminology:

Compost (/ˈkɒmpɒst/ or /ˈkɒmpoʊst/) is organic matter that has been decomposed and recycled as a fertilizer and soil amendment. Compost is a key ingredient in organic farming.

Compost is a Fertilizer municipal industrial which can be obtained from the fermentation operation (Composting) for plant organic waste (such as rice straw and the thrones of vegetables and outputs tree pruning) or animal organic waste like (bird droppings) or a mixture of plant organic waste, animal organic waste or municipal waste (garbage)

At the simplest level, the process of composting simply requires making a heap of wetted organic matter known as green waste (leaves, food waste) and waiting for the materials to break down into humus after a period of weeks or months. Modern, methodical composting is a multi-step, closely monitored process with measured inputs of water, air, and carbon- and nitrogen-rich materials. The decomposition process is aided by shredding the plant matter, adding water and ensuring proper aeration by regularly turning the mixture. Bacteria requiring oxygen to function (aerobic bacteria) and fungi manage the chemical process by converting the inputs into heat, carbon dioxide and ammonium. **The ammonium (NH₄)** is the form of nitrogen used by plants. When available ammonium is not used by plants it is further converted by bacteria into **nitrates (NO₃)** through the process of nitrification.

Compost is rich in nutrients. It is used in gardens, landscaping, horticulture, and agriculture. The compost itself is beneficial for the land in many ways, including as a soil conditioner, a fertilizer, addition of vital humus or humic acids, and as a natural pesticide for soil. In ecosystems, compost is useful for erosion control, land and stream reclamation, wetland construction, and as landfill cover (see compost uses).

Ingredients

Carbon, nitrogen, oxygen, water

Composting organisms require four equally important ingredients to work effectively:

- **Carbon** — for energy; the microbial oxidation of carbon produces the heat, if included at suggested levels

High carbon materials tend to be brown and dry.

- **Nitrogen** — to grow and reproduce more organisms to oxidize the carbon.

High nitrogen materials tend to be green (or colorful, such as fruits and vegetables) and wet.

- **Oxygen** — for oxidizing the carbon, the decomposition process.
- **Water** — in the right amounts to maintain activity without causing anaerobic conditions.

The most efficient composting occurs with an optimal carbon: **nitrogen ratio of about 10:1 to 20:1** Rapid composting is favored by having a **C/N ratio of ~30 or less.**

The Importance and Uses:

- Importance:

Research and studies have shown that the element nitrogen comes on the top of nutrients that determine crop production in the world.

optimum rates fertilizing of nitrogen increases crop productivity which is important to provide the world food security. The phosphorus falls in second place in the standings after the nitrogen in terms of the needing for fertilizing this element, followed by the element potassium. The advantage of organic fertilizers that it contains nutrients, whether major or micro in a balanced and soft image for the plants. The organic material influence on a lot of physical and chemical characteristics of the land and its importance due to the following:

1. **organic material** is like a store for the nutrients growth for the plants which Comes out carbon dioxide during the decomposition and this in turn enter into the process of representation of chlorophyll and also it helps to convert nitrogen, phosphorus, sulfur and other nutrients to the valid image for The use of plant.
2. **the Gluten parts in the organic material** have a great importance to the improvement of the natural qualities of the land where they prevent cohesion in blocks and thus increase the ventilation of the ground and facilitates root penetration and growth in the sandy land and thus reduce the porosity. Converting nutrients to the soft image for the plants plays an important role in the transformations taking place in the land where Insoluble compounds that containing potassium turns into soluble compounds such as carbonate and potassium nitrate, And Insoluble phosphate vehicles turn into more soft pictures for the plant, particularly both iron and calcium, and the organic acids Precipitates in combination with calcium, manganese, and therefore it does not implement water exchange and it is also working on converting microelements to safe images to feed the plant through chelation or reducing the pH addition it works on the revitalization of terrestrial organisms where it supply the needed energy to build their bodies and increase the exchange capacity for the land

● **Uses:**

Compost is generally recommended

- ✓ **As an additive to soil**
- ✓ **as a tilth improver**
- ✓ **providing the support and nutrients in which plants can flourish**
- ✓ **can be tilled directly into the soil to boost the level of organic matter and the overall fertility of the soil.**
- ✓ **well known to destroy many unwanted seeds and nearly all types of pathogens.**

organic fertilizer features which are producing in our Company: -

- 1. are manufactured with the latest equipment and expertise in the company's various factories.**
- 2. Improves building sandy ground and dismantle the
The clay soil land.**
- 3. increase the ground's capacity to retain water.**
- 4. contains necessary grand elements such as nitrogen, phosphorus, potassium and micronutrients such as iron, zinc, copper, cadmium and various elements.**
- 5. reducing the amount of chemical fertilizer that is added in different crops.**
- 6. contains growth regulators and natural hormones and antioxidants.**
- 7. necessary to produce safe food and healthy and fit for export and domestic consumption.**
- 8. completely free from weed seeds and fungal and bacterial pathogens and more particularly nematodes.**
- 9. packed into bags solid closed.**
- 10.increase water holding capacity of the soil**
- 11.increase biomass (crop) production**
- 12.increase soil carbon levels**
- 13.increase soil pH**
- 14.decrease Aluminum toxicity**
- 15.decrease tensile strength**
- 16.change microbiology of the soil**
- 17.decrease emissions from soil of the greenhouse gases CO₂, N₂O and CH₄**
- 18.improve soil conditions for earthworm populations**
- 19.improve fertilizer use efficiency**

20. it holds a permit from the Egyptian Ministry of Agriculture through the acceptance of the analyzed samples of the Agricultural Research Center - Soil, Water and Environment Unit on 11/12/2015 invoice repay No. 15, dated 15/08/2015 invoice repay No. (402).

The Organic fertilizers available in our company:

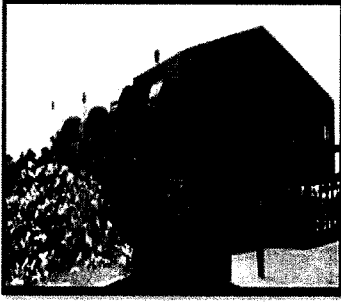
1. **Nile valley (1):** - Output of aerobic composting of municipal solid waste.
2. **Nile valley (2):** - Output of aerobic composting of medicinal and aromatic plants.
3. **Nile valley (3):** - Output of aerobic composting animal waste and agricultural residues.

Wadi misr compost is available in 25kg and 50kg bags, 500kg, 1-ton bulk bags and in bulk. Please contact me for bulk pricing.

Compost Chemical analyses:-

	Wadi Misr fertilizer	Unit	Nile valley 1 Food waste compost	Nile valley 2 Medical ,Aromatic Plants compost	Nile valley 3 Plant and animal waste compost	Optimal border
1	Weight per cubic meter	Kg	650-750	600-700	650-750	750+40 at most
2	moisture	%	15%-25%	15%-25%	15%-25%	30%+2 at most
3	Organic matter	%	47	42	30	20% at least
4	OC (carbon)	%	24	24	21	25% At most
5	Nitrogen	%	1.82	1.71	1.20	0.5% At least
	Ammonia	PPM	1436	131	177	
	nitrate	PPM	63	56	56	
6	Carbon / nitrogen	%	13.18/1%	14.03/1%	17.5/1%	18/1%-25/1%
7	ph.	%	7.7	7.24	8	8.5at most
8	DM/s		2.5-4	3.5-5	3.5-5	
9	Total dissolved salts	%	0.42	0.42	0.42	0.5%+1at most
10	Potassium (U 2 a)	%	0.51	0.65	0.82	
11	Phosphorus (P 2 O 5)	%	2.80	1.77	2.25	
12	Magnesium	%	0.29	0.57		
13	Sodium	%	0.8	0.4	0.7	0.5%+1at most
14	Chlorides	%	0.18			0.5%at most
15	Bicarbonate	%	0.11			0.5%at most
16	Sulfates	%	0.13			0.5%at most
17	Iron	PPM	1200-3000	800-1200	1000-1300	1300
18	Manganese	PPM	250-400	100-150	80-120	300

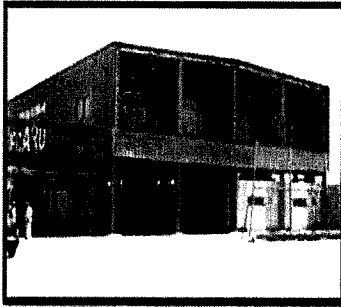
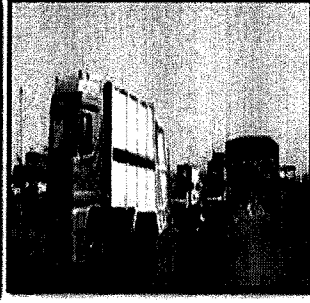
19	Zinc	PPM	250-440	40-80	30-50	200
20	Copper	PPM	69-80	160-180	100-120	60
21	Cadmium	PPM	1-1.20			100+15 at most
22	Weed seeds, nematodes		No detected			No detected



١. إستقبال المخلفات بمصنع ١٥ مايو



٢. تنقل المخلفات إلى سيور التغذية الصاعدة بواسطة اللوادر



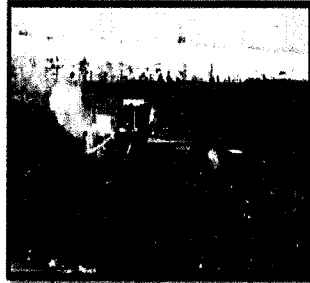
٣. تتم عملية الفرز المبدئي للمخلفات، وتفتيح الأكياس



٤. تنقل المخلفات لسيور الفرز



٥. يتم التقاط المواد الحديدية



٦. تنقل المخلفات إلى المنخل الثابت حيث يتم فصل المادة العضوية من المرفوضات



٧. تجمع المادة العضوية ويتم تكوين مصفوفات السماد

٨. نخل سماد القمامية العضوى

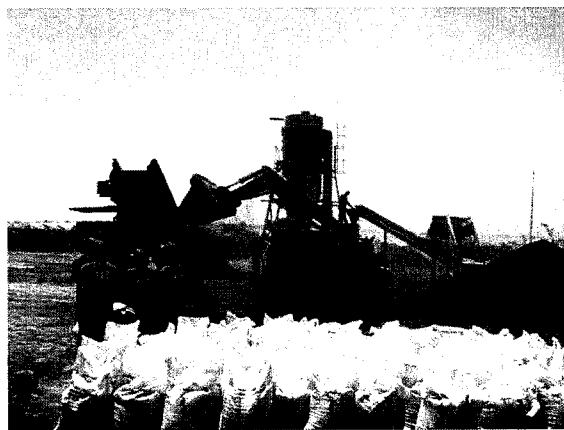
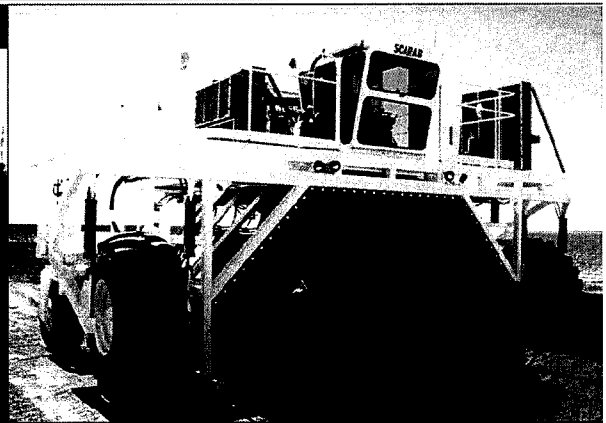
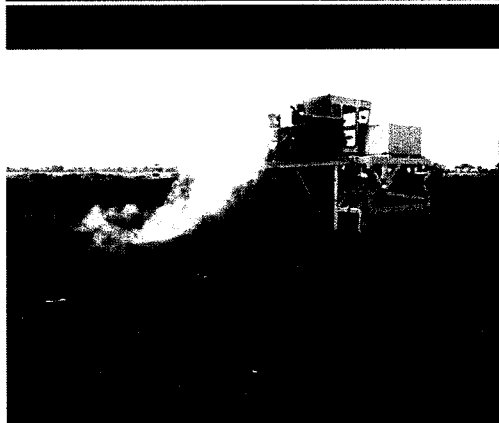
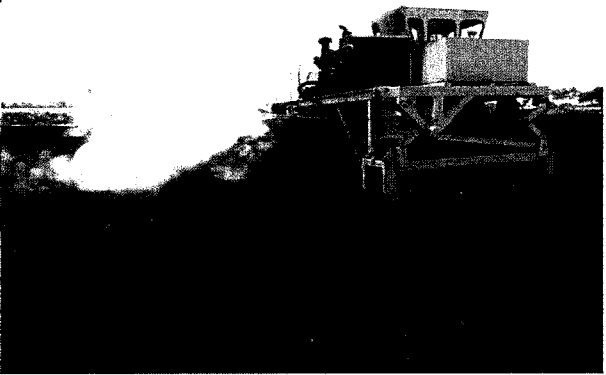
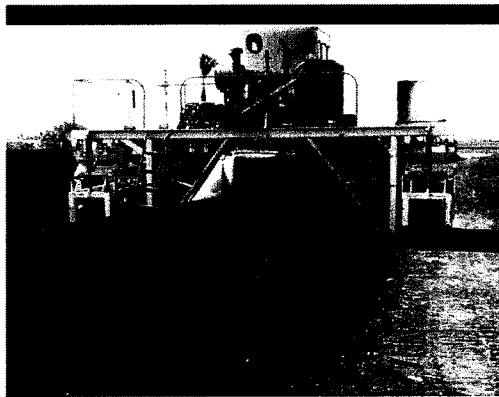
٩. نخل سماد القمامية العضوى



١٠. فصل الزجاج وتنقية سماد القمامية



١١. نعيبة سماد القمامية العضوى



Quick Details:-

- 1- Classification: Organic Fertilizer
- 2- Type: Manure/fertilizer
- 3- Place of Origin: Alex- Dakahila, Egypt
- 4- Purity: 100% Natural
- 5- Brand Name: Nile Valley
- 6- Color: Black/Dark Brown
- 7- Moisture:15% to 25%
- 8- Potash:0.5% - 0.8%
- 9- Phosphorus:1.2% - 2.2%
- 10-Nitrogen: 1.20% -1.80%
- 11-Size:8-14-25 mm
- 12-PH Value:6-8
- 13-Supply Ability: 3000 Ton/Tons per Month
- 14-Price:

	Item	unit	Price/Ex works
1	Nile valley (1)	\$	70 /Metric Ton
2	Nile Valley (2)	\$	85 /Metric Ton
3	Nile Valley (3)	\$	80 /Metric Ton

- 15-Packing: HDPE Bags -25 kg/ 50 kg
- 16-Load ability: 18 MT per 20 ft. Container>> We also pack according to the customer's requirement
- 17-Benefits: Free from pathogens, toxic elements, weed seeds etc.,
Enhances plant growth, Higher quality crops and better yields,
Improves water retention and aeration
- 18-Where this can be used: (for all agricultural needs)
Nurseries, Landscape, Orchid Nursery, Vegetable Growers,
Greenhouses, Flower Nursery, Home Garden, Indoor Plants,
Ornamental Plants, Potted plants-All Types Home improvement centers.

HQ:

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