miyay process





HUMIC ACID FERTILIZER PLANT

General

Humic acid is a soil conditioner, the main servant of the soil. It does not pollute the environment, has no side effects on the products. Because it is organic above all else. One of the most economical and rapid solutions to the organic matter problem in modern agriculture is the direct application of Humic Acid to the soil or plant. Humic Acids stay in the soil for a long time and gradually break down over time. Humic acid is recognized as the medicine of organic agriculture and regenerates the soil.

Plant

Humic acid fertilizer plant is a complex facility established on an area of approximately 3 decares.



Major Production Divisions are listed below.

1- New Coal Drying Site
2- Coal Drying Plant
3- Leonardite preparation and feeding system
4- Additive unit
5- Water unit
6- Reactor Unit
7- Filtration and Separation Unit
8- Humic Acid Storage Unit
9- Humic Acid Filling Unit
10- Compressor Station
11- Steam Generator Station
12- Electrical Automation System

New Coal Drying Site

Coal Drying Plant. Leonardite is brought to the site by trucks, it is laid on the coal field and left to dry by taking its natural moisture with the sun.





Coal Drying Plant

Leonardite is brought to the site by trucks, it is laid on the coal field and left to dry by taking its natural moisture with the sun. The coal taken from the coal field with a loader is loaded into the feeding bunker and fed to the drying facility by conveyor belts. The drying plant is transferred to the leonardite preparation unit as its moisture is removed by reducing the moisture value in the dried coal in the field.





Leonardite Preparation and Feeding System

In the Leonardite preparation unit, the coal is sieved and taken to the weighing bunker to be fed to the reactor. The coal above a certain scale is crushed again and transferred to the feeding bunker. According to the given recipe value, the leonardite is weighed for feeding into the reactor.





source:www.tkihumas.tki.gov.tr











Additive Unit

The special chemical is prepared in the additive preparation unit depending on the process values. It is transferred to the weighing unit according to the recipe by means of pumps.





Water Unit

The water fed to the reactor according to the recipe is prepared in these units. Equipped with special counters and valves.



Reactor Unit

The reactor is designed to be resistant to temperature and pressure, in accordance with safety regulations. It is manufactured equipped with temperature sensors, pressure sensors, safety valves, steam control valve and meters. With the special Impeller system, the mixing regime has been increased and the efficiency of the process has been raised. The process is started by feeding the prepared water, special additive and leonardite to the reactor according to the recipe. After the completion of the batch time, the reactor discharge valve is opened and discharged.



Filtration and Separation Unit

The products coming out of the reaction are fed to Humic Acid specially designed decanters for separation, and solid-liquid separation is made. Solid material is transferred to the landfill by augers. Depending on the factory capacity, separation equipment and sub-systems can increase or decrease.





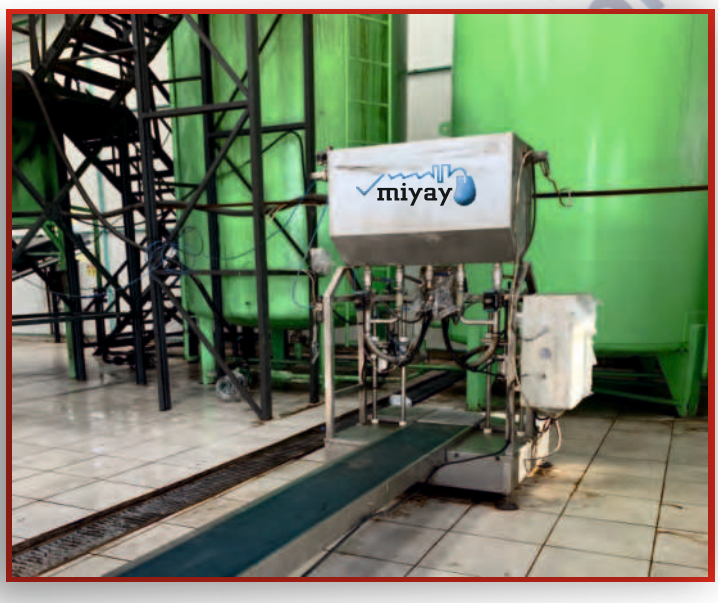
Humic Acid Storage Unit

The liquid product coming out of the decanters is sent to the storage tanks by means of pumps for storage. Storage tanks and sub-systems can increase or decrease according to the factory capacity.



Humic Acid Filling Unit

With the specially designed filling unit, the products drawn from the storage tanks are filled into 25 kg humic acid drums. The product is labeled and made ready for sale.





Compressor Station

It is for the air requirement of the valves and equipment in the field.





Steam Generator Station

It meets the steam needed by the Coal Drying Plant and the Reactor Unit. It is designed as mobile or stable.

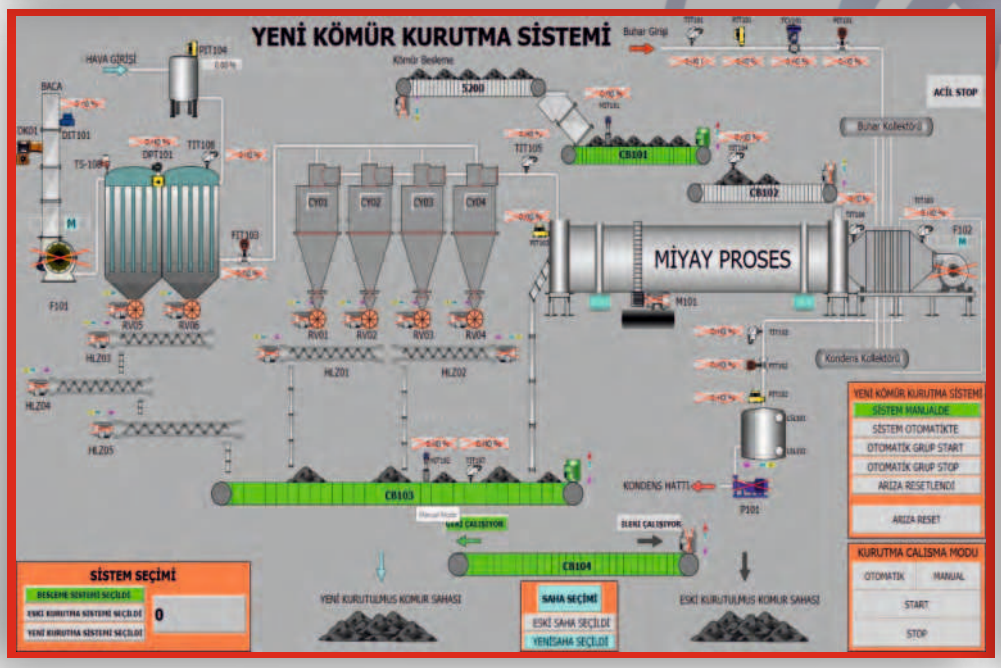


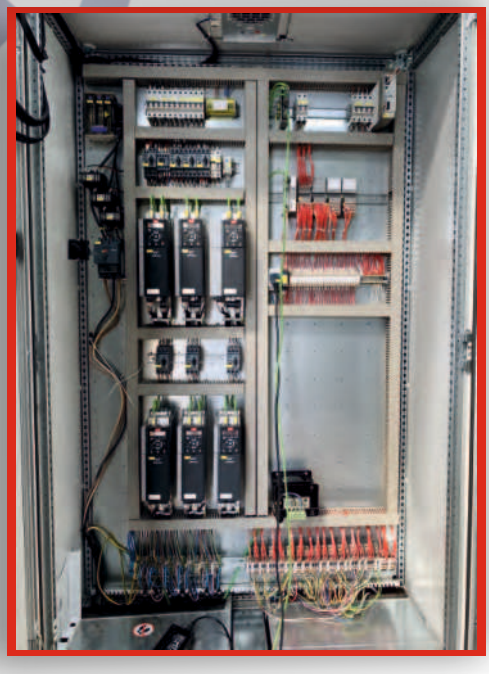


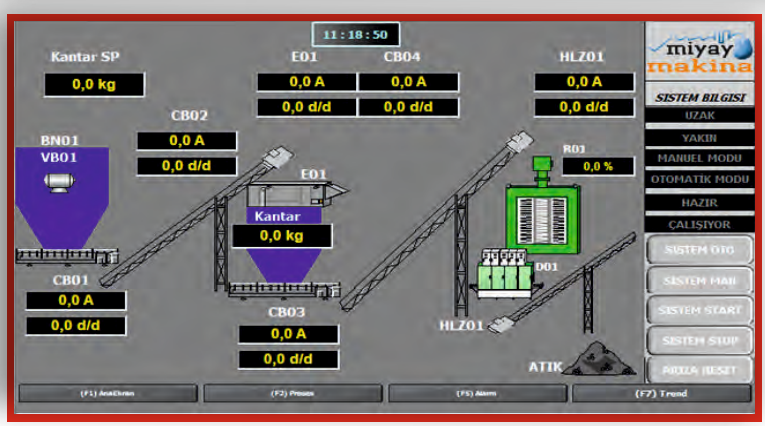
Electrical Automation System

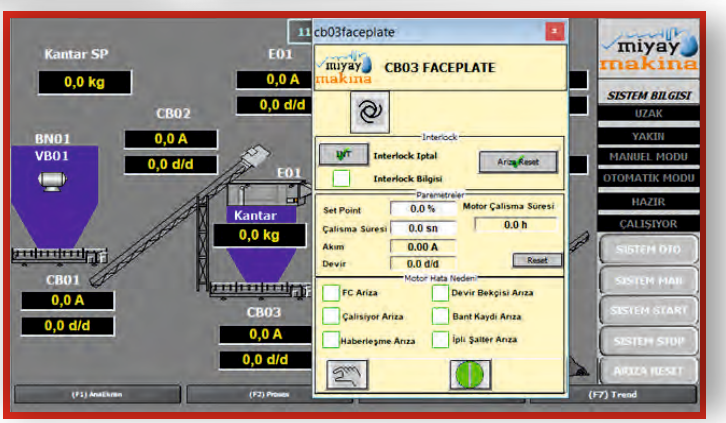
With a special software developed by Miyay company, all control and data communication for the humic acid plant is done via SCADA computers.











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Machine Optimization and modernization

TRAINING
Operation and Maintenance with the Operator
Personnel Trainings

SPARE PARTS
Machine Spare Parts Stock and Supply

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Preventive Maintenance Service Contracts

PROCESS OPTIMIZATION
Process Optimization Services

LAB AND ON-SITE TESTS
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