AN ISO 9001 : 2015 CERTIFIED COMPANY

EXCELLENT

EN FAB INCORPORATION

We are one of the Leading
Manufacturer & Engineering
company in India serving
more than **700+** Clients worldwide.

www.excellentnfab.com

We are one of the Leading
Manufacturer and Engineering
Company in India

20+ YEARS EXPERIENCE

- Ethical transactions & transparency
- Fulfillment of commitments
- Experienced professionals

Company **Profile**

We at Excellent En-Fab Incorporation, Located in Ahmedabad- Gujarat, are One of the Recognized Process & Construction Equipment Manufacturing hubs of India.

"Excellent En-Fab Incorporation" has been Known for its customer-friendly policies and ethical practices since its inception.

We are Supplying Equipments & Plants with Turnkey Basis Solution.Our Proactive approach to technical issues enables our Customers to understand and Implement cost-effective solutions in Design, Manufacture, and Supply.

AAC BLOCK PLANT

EXCELLENT
EN FAB INCORPORATION

About Us

Excellent En-Fab Incorporation Produces AAC Block Plants in India The finest engineering quality AAC Block Plants are manufactured and supplied, and they comply with all international standards. AAC plants with capacities ranging from 30 cubic meters per day to 750 cubic meters per day can be installed.

AAC blocks are made of fly ash (pond ash or sand) as the main raw material, cement, gypsum, and lime as cementing materials, and aluminum powder as the foaming agents. The main forming procedures are Material crushing, measuring, mixing, pouring, curing, cutting, and steaming.

AAC Plants Raw material and Batching section consists of, Cement Silo, Lime Silo, Gypsum Silo, Fly ash Silo, or Pond Ash Loading Screening and Transfer system. AAC Block Machines manufactured by us are designed as per the capacity of each plant. AAC Block raw materials are safely and accurately transferred to prepare an accurate mix of AAC Blocks in every batch. So all the AAC blocks Manufactured by Our AAC machines are consistent in quality.

- Construction Industry
- Real Estate Development
- Infrastructure Projects
- Commercial Buildings
- Affordable Housing

- ☑ Fire Resistant
- ☑ Pest Resistant
- ☑ Sound Proof
- ☑ Earthquake Resistant
- ☑ Faster Construction
- ☑ Long-lasting
- ☑ Cost Saving
- ☑ Versatile
- ☑ Non-toxic
- ☑ Thermal Insulation
- ☑ Environment-Friendly
- ☑ High Resistance

An AAC (Autoclaved Aerated Concrete) block plant is a manufacturing facility that produces AAC blocks, a highly sought-after construction material known for its lightweight, insulating, and durable properties. These blocks are made from a mixture of sand (or fly ash), lime, cement, water, and a small amount of aluminum powder. The mixture undergoes a chemical reaction that causes it to expand and form a light, porous structure, which is then autoclaved to achieve its final strength.

AAC is one of the major achievements of the 20th century in the field of wall construction.AAC is a high-quality, non-load-bearing, and extremely well-insulating building material produced as standard or mega blocks or panels.

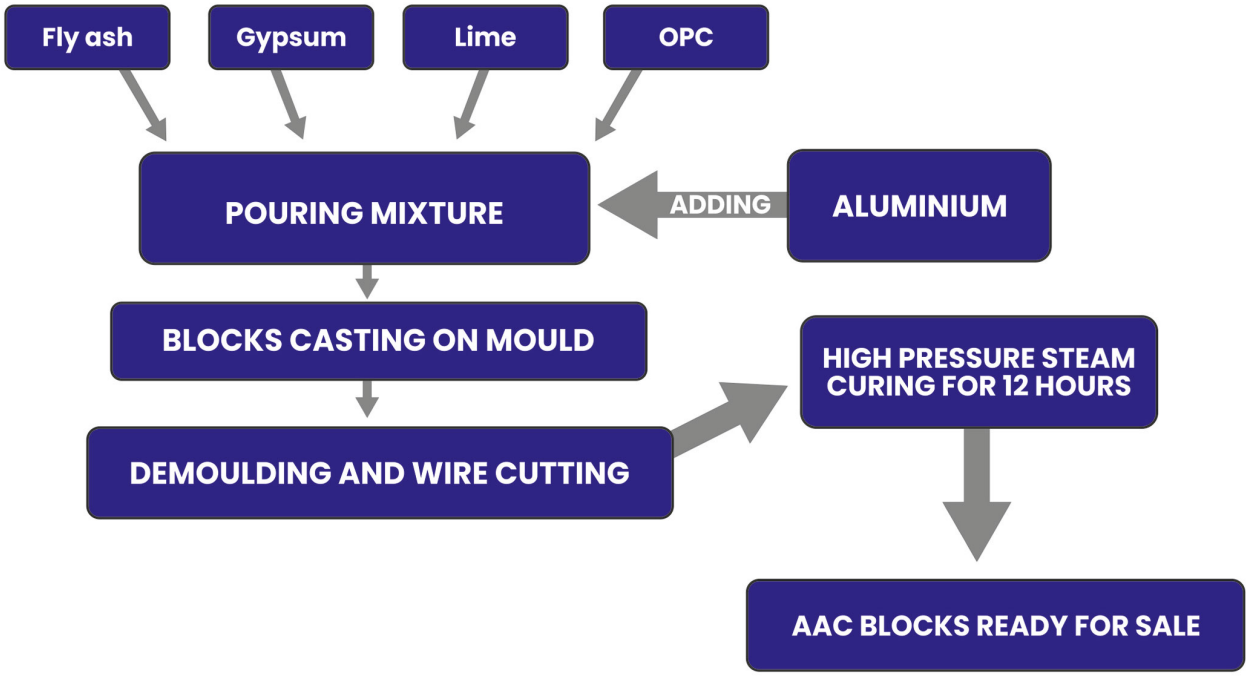
Our Products

EXCELLENT
EN FAB INCORPORATION

- AAC Raw Material Storage
- AAC Raw Material Preparation
- AAC Batching System
- AAC Tilting Machine
- AAC Wire Cutting Machine
- AAC Autoclave
- Boiler
- AAC Finished Block Handling System
- AAC Demoulder machine
- AAC - Curing trolley, Mould box & Ferry trolley

The plant can be modified based on the level of automation and production volume required. Future upgrades are possible at any time. Overall, AAC block plants play a crucial role in the production of lightweight, durable, and energy-efficient building materials used in various construction projects worldwide. They combine advanced technology, efficient processes, and quality control measures to produce AAC blocks that meet the demanding requirements of modern construction practices.

MANUFACTURING **PROCESS**



AGRO WASTE PYROLYSIS PLANT

[Bio-char making plant]

EXCELLENT
EN FAB INCORPORATION

What is Bio-Char?

Bio-char is a stable, carbon-rich material derived from the pyrolysis of organic biomass. It has several environmental benefits, including improving soil fertility, enhancing water retention, and sequestering carbon to mitigate climate change. Bio-char's porous structure and high surface area make it an excellent soil amendment, promoting microbial activity and nutrient retention in soils.The Bio-Char Production Process.

Feedstock Preparation

Biomass feedstock such as agricultural residues, wood chips, or organic waste is collected and prepared. This may involve drying and size reduction to ensure uniform feedstock input.

Pyrolysis

The prepared biomass is feed into a pyrolysis reactor, where it is heated in the absence of oxygen. This thermal decomposition process converts the biomass into bio-char, bio-oil, and syngas.

Cooling and Collection

The bio-char produced in the reactor is cooled and collected. The bio-oil and syngas are also collected for potential use as energy sources or for further processing.

Post-Processing

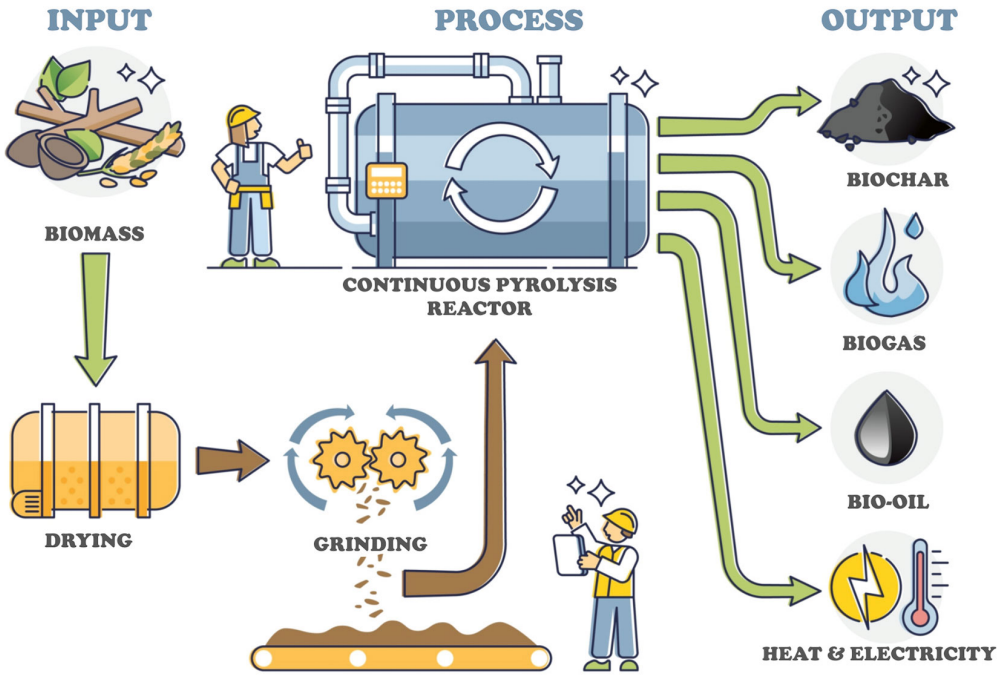
The collected bio-char may undergo additional processing such as grinding, screening, or pelletizing to meet specific application requirements.

Soil Improvement | **Carbon Sequestration** | **Waste Management** | **Renewable Energy** | **Economic Opportunities**

EXCELLENT
EN FAB INCORPORATION

Bio-char making plants represent an innovative approach to sustainable agriculture, waste management, and climate change mitigation. By converting organic waste into valuable bio-char and renewable energy, these plants contribute to a circular economy and promote environmental stewardship. The benefits of bio-char, coupled with the versatility of its applications, make bio-char production a promising industry for the future.

- ☑ Energy recovery from waste depending upon input waste calorific value.
- ☑ Sterilization of residue
- ☑ The system is compact as compared to other waste disposal facilities.
- ☑ PPS facilitates elimination of carbon content in the waste.
- ☑ The ash content does not require any post treatment.
- ☑ Requires less time to preheat the pyrolysis reactor.
- ☑ PPT can even be used to destroy
- ☑ Metallized plastics
- ☑ Polyethylene plastic
- ☑ Soiled plastic
- ☑ Multi-layer plastics in an environment friendly manner



SPRAY DRYER

This procedure is carried out using spray dryers. A spray dryer removes water from a product by using an atomizer, a unique kind of nozzle that may break down a substance into incredibly tiny particles. After separating the liquid components from the solid ones, heated air is used to evaporate the liquids.

EXCELLENT
EN FAB INCORPORATION

ATOMIZER TYPE SPRAY DRYER

An atomizer type spray dryer is a device used to produce dry powders from liquid solutions, suspensions, or emulsions by rapidly drying with a hot gas. It employs an atomizer to disperse the liquid feed into fine droplets, which are then exposed to a hot air stream that evaporates the moisture, leaving behind dry particles.

High Efficiency | Heat-Sensitive Materials | Automated Operation

NOZZLE TYPE SPRAY DRYER

A nozzle type spray dryer is a drying system where the liquid feed is atomized into tiny droplets using high-pressure nozzles. Their ability to produce fine and uniform particles, handle a wide range of materials, and provide high product quality makes them invaluable in food processing, pharmaceuticals, chemicals, and other sectors.

Pharmaceutical Industry | Chemical Industry | Biotechnology

SPIN FLASH DRYER

The dry material is subjected to shearing, rotating, collision, friction, etc., resulting in the material being pulverised and refined and being highly dispersed, accomplishing the effect of efficiently and quickly evaporating water. The flash dryer body is equipped with a rotary cutting device. The dryer can be modified to meet user requirements.

The dryer has an air filter to ensure that the hot air is pure and to create production settings that meet the hygienic standards of the food industry. The device configures the cyclone separation and material collection. To boost the rate of material recovery, a receipt for bag dust removal is also incorporated. It can increase an organization's economic efficiency.

- ☑ Acetanilide
- ☑ Fatty acids
- ☑ Caustic Soda
- ☑ Phenolic resin
- ☑ Chlorinated Wax
- ☑ Nickel catalyst
- ☑ Benzoic
- ☑ Organic resins
- ☑ Magnesium chloride
- ☑ Sodium Sulphide
- ☑ Monocholoro Acetic acid
- ☑ Phosphorous Penta Sulphide

In the chemical, pharmaceutical, construction materials, food, feed, and other industries, the flash dryer is frequently used for dispersing and drying false agglomerates that are granular, powdery, paste-like, and filter cake-like.

EXCELLENT
EN FAB INCORPORATION

ROTARY DRYER is a type of industrial dryer that is widely used to reduce or minimize the moisture content of various materials. It operates by bringing the material into direct contact with a heated gas.

FLASH DRYER also known as a pneumatic dryer, is designed to dry materials almost instantaneously by using a high-speed hot air stream. The material is dispersed into the hot air, and the moisture is quickly

ROTARY DRYER

The rotary dryer also known as tumbling dryer is an equipment employed to minimize the moisture content of feed materials by bringing it in direct contact with a heated gas. It consists of an inclined long drum or cylindrical shell often fitted with internal flights or lifters; rotated slowly upon bearings through which the material to be dried flows with a tumbling/cascading action in concurrent (for heat-sensitive materials) or counter-current flow with the heating air or gases.

- ☑ Sturdy Construction & Simplicity in design.
- ☑ Capable to handle very large through-puts
- ☑ Can handle very large size of articles/ materials
- ☑ Sealing arrangements to suit applications
- ☑ Heavy duty tyres & support roller assemblies Drives for Drums

FLASH DRYER

An industrial dryer called a flash dryer is used to quickly dry wet products including pastes, sludge, and food items. By blowing hot air through the wet material, the flash drier operates. The wet material is quickly dried by the hot air, and the dried product is collected at the bottom of the flash dryer. A piece of machinery frequently used in chemical processing applications is a flash dryer, usually called. An enclosed chamber with one or more heating components within makes up this kind of dryer.

- ☑ Very short retention time,
- ☑ Ideal for heat sensitive products
- ☑ Instant drying of the material,
- ☑ Simple drying system with few mobile parts.
- ☑ Enables energy savings and system integration

Chemical Industry | **Construction Industry** | **Food Industry**

Paper Industry | **Pharmaceutical** | **Textile Industry**

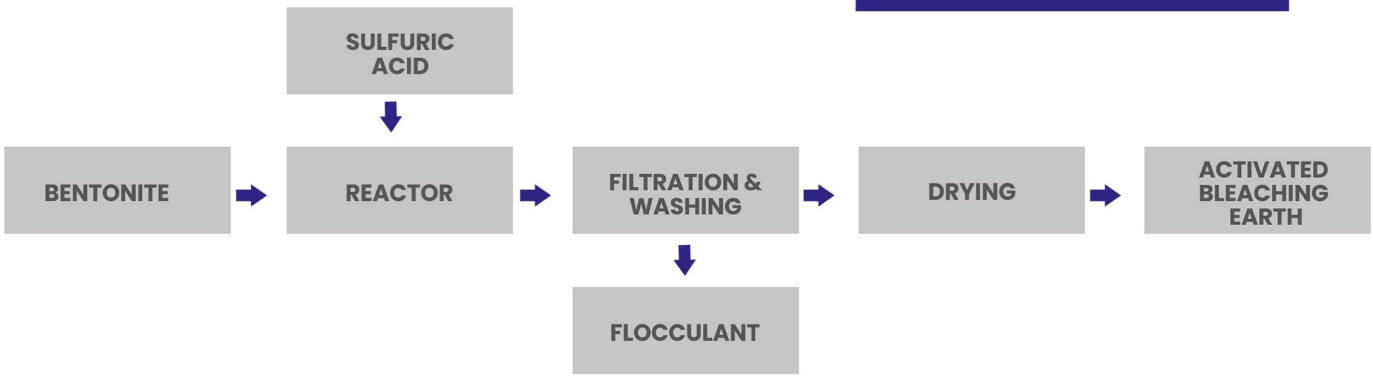
ACTIVATED BLEACHING EARTH PLANT

EXCELLENT
EN FAB INCORPORATION

Activated Bleaching Earth is created through the activation process of a specific type of clay, such as Bentonite. This process involves applying acid or heat at temperatures ranging from 200°C to 250°C. As a result, the clay expands, forming a complex and porous structure. These plants were designed by our experts while taking into account cutting-edge technology. The Bleaching Plant is rigorously tested on several quality factors from engineering to final shipping. Additionally, the plants are sold to customers at very competitive costs.

An activated bleaching earth plant is a specialized facility designed to produce bleaching earth, a fine, naturally occurring clay that has been chemically altered to increase its adsorptive properties. Bleaching earth is widely used in the refining and

- ☑ Low oil residual
- ☑ Fast filtration rate
- ☑ Ability minimise the increase of free fatty acids
- ☑ Removing impurities like soap, trace metals
- ☑ Juice and wines' clarifying.
- ☑ Remove water
- ☑ Decolorization of plant oils
- ☑ Decolorization of mineral oils
- ☑ Enhance stability of the Refined Oil



EXCELLENT
EN FAB INCORPORATION

IMPORTANCE OF AN ACTIVATED BLEACHING EARTH PLANT

ENHANCED PURIFICATION

Oil Refining: Activated bleaching earth is essential in the refining process of edible oils and fats. It removes impurities, colorants, and other unwanted substances, resulting in clear and high-quality oils.Industrial

Applications: It is also used in the purification of various industrial products, including lubricants, biodiesel, and waxes.

IMPROVED PRODUCT QUALITY

Color Removal: Bleaching earth effectively removes pigments and color bodies from oils and fats, improving the appearance and quality of the final product.

Contaminant Adsorption: It adsorbs contaminants such as heavy metals, phospholipids, and soaps, enhancing the purity of the refined products.

ECONOMIC BENEFITS

Cost-Effective: Using activated bleaching earth is a cost-effective method for oil refineries to achieve high-quality end products without significant capital investment in alternative purification technologies.

Waste Minimization: The use of bleaching earth reduces waste and by-products, contributing to a more sustainable refining process.

ENVIRONMENTAL BENEFITS

Natural Material: Bleaching earth is derived from natural clay, making it an environmentally friendly option for purification processes.

Reusability: In some cases, spent bleaching earth can be regenerated and reused, reducing the environmental footprint of the refining process.

EXCELLENT
EN FAB INCORPORATION

SPRAY DRYER

AAC BLOCK PLANT

AGRO WASTE PYROLYSIS PLANT

ACTIVATED BLEACHING EARTH PLANT

ROTARY DRYER

OUR MISSION

To become a leading manufacturing company in designing & manufacturing Turnkey Projects & Equipments, providing services and becoming a one-stop reliable hub of technical resources for providing complete solutions to the requirements of the industry. To Focus on meeting in terms of product quality and on-time delivery.

OUR VISION

Our Vision is to provide highly energy efficient and Cost-effective Projects / Equipments for Construction, pharmaceuticals, Nutraceuticals, Foods & Ceramic Industries across the global through Development of latest technologies by Innovative R & D activities.

www.excellentnfab.net

EXCELLENT
EN FAB INCORPORATION

PRODUCES
RELIABLE, EFFICIENT, SAFE & SUSTAINABLE
PRODUCTS RANGE

372/3/2, Gamdi Gam Road,
Near Gandhi Farm, Village: Gamdi,
Taluka.: Daskroi, Dist.: Ahmedabad

+91 73832 12300
+91 81281 85779
+91 99986 78239

info@excellentenfab.net