



COMPANY PROFILE

Arrowcon Energy Pvt. Ltd.

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INTRODUCTION

ABOUT THE COMPANY

Environmental sustainability and Energy efficiency is the most pressing need of our time. Our Director Mr. Pankaj Tiwari has great vision to protect our environment and efficiently utilization of energy.

With this concept we started Arrowcon Energy Pvt Ltd.

We are manufacture and supplier of Pollution control equipment and Heat energy generating equipment's Such as ESP, scrubber system, Dust Collector, Bag Filter, Hot air generator, Boiler, Dryer etc.

By optimizing the knowledge and experience of our team of experts we have created a single window for providing solutions to all the problems faced in power industry such as quality services, lead times for supply, quality of supplies etc.

OUR VISION

To become a most reliable and trusted brand catering engineering solutions for a vast variety for industries comprising of all sectors in amost cost-effective manner without any compromise in quality and having minimum impact on environment.

OUR MISSION

Optimize our resources and churn out our knowledge and experience so as to bring out the most cost-effective solution that can be applied by our customers in a shortest possible duration hence increasing their productive time leading to their overall growth.



ARROWCON ENERGY

Safety And EHS Policy

QUALITY POLICY

The Arrowcon Energy team is committed to design, develop and provide quality supply and services so as to meet all the quality standards as per requirements of the customer as well as regulatory and accrediting bodies.

Prepare a framework in which each employee is effectively communicated about companies' quality standards in details and motivate them for implementing the same in most effective manner.

Continuous improvement of our quality management system so as to meet the day to day upgradations in quality and technology to cater the customer needs in a more effective manner.

Periodical audits so as to ensure all the procedures are being followed and quality ensured at all the levels.

Collecting customer feedbacks and preparing a process so as to incorporate the changes required on that basis in all our future supplies as well as services.



ENVIRONMENT, HEALTH & SAFETY

At Arrowcon Energy we recognize that Health, Environment and Safety is of utmost importance and all possible efforts in the direction of its improvement needs to be implemented on priority.

Our employees are adequately trained so to ensure our policy related to Health, safety and conservation of environment are implemented in the most effective manner.

We identify and eliminate hazards to prevent accidents, incidents and redesign unsafe work practices. All the necessary resources required for the implementation are made available. Develop a process in which there is a least effect on the environment and priority is given to safety and health of all individuals.

Educate each individual about the importance of our health, environment and safety policy and motivate them so as to implement it in the most effective manner.

Regular audits to ensure compliance with laid down policies, benchmarked standards and requirement of laws, regulations and applicable codes of practice.

Periodic review and improvement in our policy so as to meet the day to day challenges.



WHAT WE OFFER FOR YOU

OUR PORTFOLIO

Boiler Combustion Systems

Section A



Pollution Control Systems

Section B



Fuel and Ash Handling System

Section C



Engineering Services

Section D



Thermic Fluid Heaters and Hot Air Generators

Section E



Heat Exchanger, Vessels, Stacks and Tanks

Section F

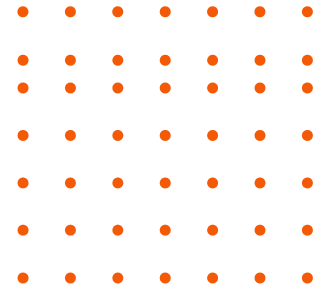


Biogas CNG Waste Management System

Section G



BOILER COMBUSTION SYSTEMS



SECTION A



ENGINEERING SOLUTIONS

Inspection to find the best solution to solve the problem of boiler combustion system and improve combustion efficiency. Combustion modification & Improvement. Replace Travelling grate/Step grate stoker. Design CFBC air-nozzle & burner



MATERIAL SUPPLY

All type of the Travelling grate, Step grate, Fixed grate, and Vibrating grate stoker with suitable and quality spare part supply along with effective delivery.



RETROFIT / MODIFICATION

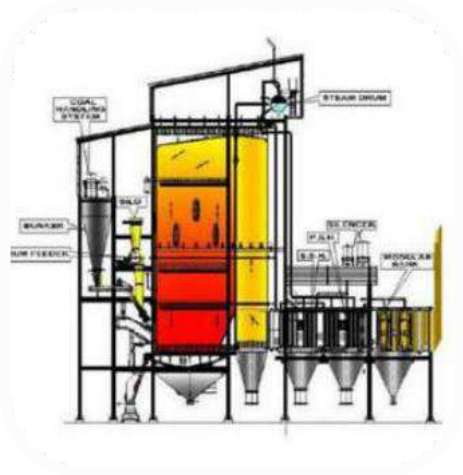
Retrofit and modification of exiting boilers for improvement in efficiency, modification required due to change in input and output parameters, capacity enhancements etc.



EXPERT SERVICE AND MANPOWER DEPLOYMENT

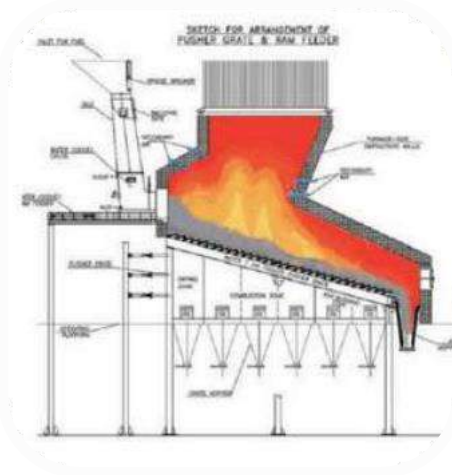
Boiler combustion inspection, combustion tuning, project management, material handling and new boiler commissioning. Manpower deployment for construction including spare part replacement and maintenance

TECHNICAL EXPERTISE



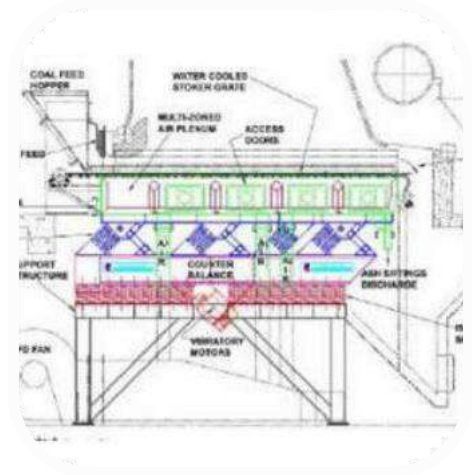
TRAVELLING GRATE

The travelling grate is different from other boilers because travelling grate can be used for various fuels, for example biomass or coal. However, travelling grates are widely used in factories that use biomass as fuel (Rice husks, bagasse, sugarcane leaves, etc.)



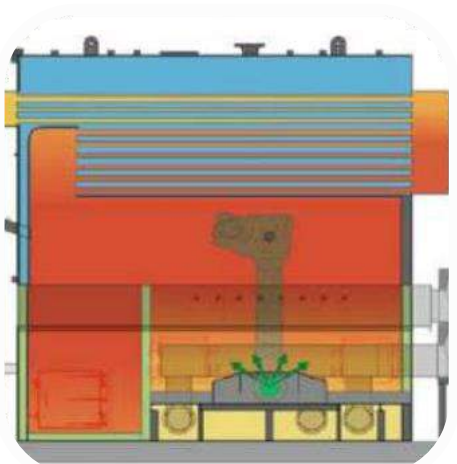
STEP GRATE BOILER

This combustion system is characterized by the conveying of fuel into the combustion chamber by a sloping sieve like a ladder. The coal will fall from the top to the bottom, along the steps. Coal will be burned to ash, and the area at the bottom of the stairs is used for ash collection.



VIBRATING STOKER BOILER

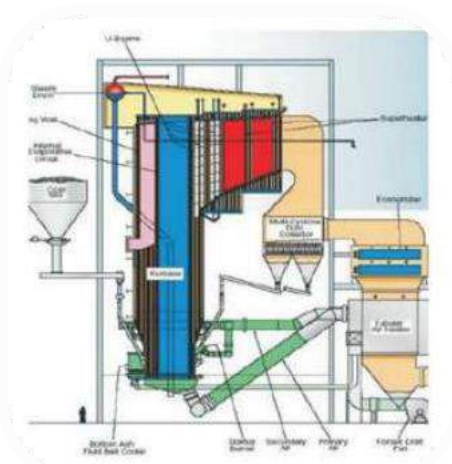
It is a fuel feeding system in which the grate will vibrate to allow the fuel to move into the combustion chamber by shortening the grate to allow the burning ash to flow down conveniently to increase combustion efficiency.



FIXED GRATE BOILER AND SPREADER FIRED

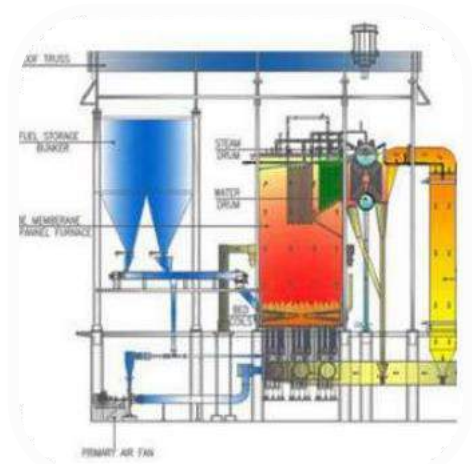
FIXED GRATE: It is a fuel feeding system in which the furnace basket is fixed and has a tilted structure to allow the fuel to move downwards. However, the disadvantage is that the combustion efficiency is low due to the ash residue.

SPREADER FIRED: This structure was developed from the Travelling grate stoker by crushing the fuel and spraying it into the furnace. The combustion efficiency is higher because the fuel is exposed to air thoroughly. However, the disadvantage is the high cost of construction and fuel.



CIRCULATING FLUIDIZED BED COMBUSTION BOILERS (CFBC)

Circulating Fluidized Bed (CFB) is a boiler system which recirculates fuel for improved boiler efficiency. This system heats 400 °C silica sand to keep heat radiation after that silica sand will generate heat radiation to fuel (800 – 900 °C) which is burned and transformed into particles. It moves at a speed of 4 – 6 m/s along with the flue gas, after which it enters the solids separation system and recirculates into the furnace, a process known as the Circulating Fluidized Bed (CFB).



ATMOSPHERIC FLUIDIZED BED COMBUSTION BOILERS (AFBC)

Atmospheric Fluidized Bed Combustion Boilers (AFBC) is a widely used technology in industrial boilers. The purpose of burning coal and other fuels (AFBC) suitable for burning low-quality fuels. Boiler combustion (AFBC) takes place at 850 – 950 degrees. This type of furnace produces a higher amount of NOx than CFBC.

BOILER GENERAL SPARES



OIL GAS AND DUAL BURNERS



CHAIN LINKS



GRATE CASTINGS



TG MOTORS



SOOT BLOWERS



AIR NOZZLES



ECONOMISER COILS



SAFETY VALVES



WATER WALL PANELS



TG GRATE CASTINGS



METALLIC EXPANSION BELLOWS



HEADERS



DUCTING



RAVS



FINNED TUBES



COAL MIXING NOZZLES

POLLUTION CONTROL SYSTEMS



SECTION B



ENGINEERING SOLUTIONS

Supply of new ESP, Bag filter, Multi-cyclone and Wet scrubber with lowest Emission. Turnkey responsibility including supply, installation & commissioning of new ESP, Bag filter, Multi-cyclone and Wet scrubber.



MATERIAL SUPPLY

All type of the ESP, Bag filter, Multicyclone and Wet scrubber quality spare part supply with effective delivery.



RETROFIT/MODIFICATION

Redesigning of existing ESP to reduce emission and improve performance



EXPERT SERVICE AND MANPOWER DEPLOYMENT

Project management, material handling and commissioning test. Professional engineering, experience technician with skill manpower for Construction including spare part & structure.

POLLUTION CONTROL OFFERINGS



ELECTROSTATIC PRECIPITATOR (ESP)

Electrostatic dust collector system electrostatic forces consist of a negatively charged wire and a positively charged metal plate, when connected to a high voltage potential causes the air between the metal plate and the wire to ionization. Dust aerosols moving through the particles are ionized, the dissociated particles are trapped on the metal plate by an electrical force known as the Coulomb force, thus purifying the air. This principle is applied. Used with dust collection systems in large industrial plants.



WET SCRUBBER

Wet Scrubber system using water or liquid spray down from the top counter to the air flow direction from the bottom up. The advantage is that it is cheap and easy to maintain. But the disadvantage is the management of wastewater and sludge that occurs from the system because when water droplets come into contact with dust, it will turn into liquid sludge, while the soluble gas will become acidic or alkaline. Water used to circulate in the system. When the saturation point is reached, it must be drained and then re-filled with water. This system is particularly good for dust and gas contaminants, especially soluble gases. For the direction of air and water flow may be Both counter flow, concurrent flow, or cross flow. Generally, Counter Flow and Cross Flow are commonly used.



BAG FILTER

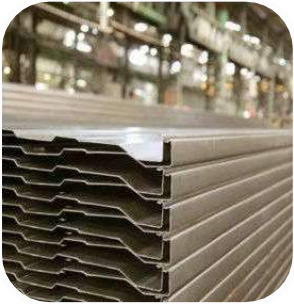
Bag Filter collector works by filtration principle. Air containing contaminants flows through the filter cloth or filter bag that is fine enough to allow only air to pass through. The bag can be filtered, the rain will be attached to the surface of the filter cloth. The advantage is that this filter cloth or bag filter dust collector has a very high dust separation efficiency. But the disadvantage is that the system is quite large, requires a lot of space to install, the filter bag is quite expensive, and the service life of the filter cloth is limited. It must be replaced at the specified time.



MULTI CYCLONE

Multi Cyclone is a device for separating large particles from the gas stream by using the centrifugal force generated by the vortex. Axis via Vanes. In any case, the function of the cyclone depends on the inertia of the particles moving in a straight line when the gas changes direction, the centrifugal force will throw the particles towards the cyclone wall and down the hopper. No particles will spin up through the pipe out to the top of the cyclone.

POLLUTION CONTROL SPARES



COLLECTING PLATES



DISCHARGE ELECTRODES



INSULATORS



TRANSFORMERS



RAPPER COILS



ESP CONTROL PANELS



RAPPING PANELS



ESP CONTROLLERS



HOPPER HEATERS



FILTER CAGE



FILTER BAGS



CYCLONE TUBES



GUIDE VANES



CIRCULATING PUMPS



CHEMICAL DOSING PUMPS



WATER SPRAY NOZZLES

FUEL AND ASH HANDLING SYSTEM



SECTION C



ENGINEERING SOLUTIONS

Engineering and supply of new conveying and feeding systems for coal, bagasse and other bio mass. Setting up new ash handling systems as per plant requirements.



MATERIAL SUPPLY

Supply of spares and equipment for all type of material handling equipment such as conveyor, drag chain, screw feeders, rotary feeders, pneumatic conveying systems.



RETROFIT/MODIFICATION

Technology upgrade on existing equipment, capacity enhancement as per current plant requirements, design improvements for better reliability.



EXPERT SERVICE AND MANPOWER DEPLOYMENT

Engineering study of current equipment for assessing any repeated failures and recommend correction and improvements. Professional engineering, experience technician with skill manpower for Construction including spare part & structure.

FUEL AND ASH HANDLING SYSTEMS



LIVE BOTTOM FEEDING SYSTEMS FOR BIOMASS FEEDING

Conventional feeding, conveying, and storage systems for dry bulk solids are generally not suitable for lignocellulosic feedstocks because of their low densities and elastic nature. Live bottom feeders can play a decisive role in optimizing feeding of biomass into the boilers eliminating most of the feeding issues in other type of feeding systems.



BUCKET ELEVATORS

A bucket elevator is vertical lifting equipment. It can transport bulk materials to a high distance with a wide range of uses, long service life, large capacity operation, customizability, small footprint, and other advantages. It is a conveying system widely used in mining, metallurgy, cement, grain, chemical, electric power, and other industries.



DRAG CHAIN FEEDERS / CONVEYORS

Drag Chain feeders / Conveyors can be used for feeding and transporting bulk materials including biomass, it has vast application and customization options depending on material to be feed. Easy maintenance and operation with control on conveying and feeding speeds are some of its advantages.



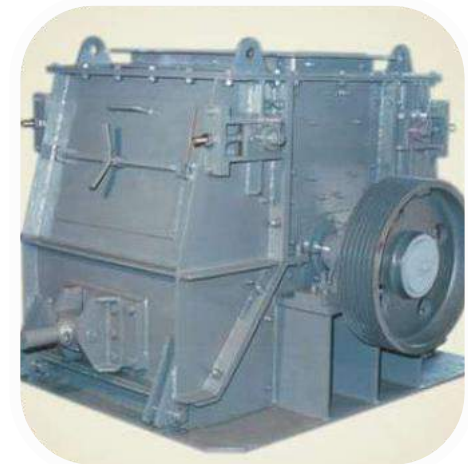
PNEUMATIC CONVEYING SYSTEMS

We offer various types of pneumatic conveying systems, both positive pressure and vacuum system. Each conveying system is selected after carefully evaluating various factors such as your product characteristics, plant layout, conveying capacity, product residual limitation, cleanliness, easy maintenance access, cost, cycle time and any other special requirement.



BELT CONVEYORS

Belt conveyors are long proven mode of conveying applicable for different type of solid medium, also we can modify these conveyors as per application and surrounding requirement such as pipe conveyors, portable conveyors, Z belt conveyors for steep inclinations, high speed.



CRUSHERS

Crusher form an important part of material handling systems, there are various types of crushers as per the applications like impactors, reversible hammer crushers, double roller crushers. ring granulators etc.

ENGINEERING SERVICES



SECTION D



TECHNOLOGY UPGRADES

Technology upgrades of the existing equipment, such as upgradation in combustion technology, automation, field instrument upgrades, safety level and BMS upgrades, metallurgy upgrades for improved reliability.



CAPACITY ENHANCEMENTS

De-Bottlenecking of the overall system by identifying the lower efficiency/output equipment and providing solutions for the same such as redesigning of heat transfer area, auxiliaries, instrumentation etc.



ENERGY CONSERVATION AND OPTIMIZATION

Carry out energy audits and make recommendations related to energy conservation and optimization, application of best available resources for optimum and effective results.



CONDITION ASSESSMENT

Carry out condition assessment of equipment through detailed investigation with the help of NDT services like UTG, MPT, Oxide scale mapping etc.



THERMIC FLUID HEATERS AND HOT AIR GENERATORS

SECTION E



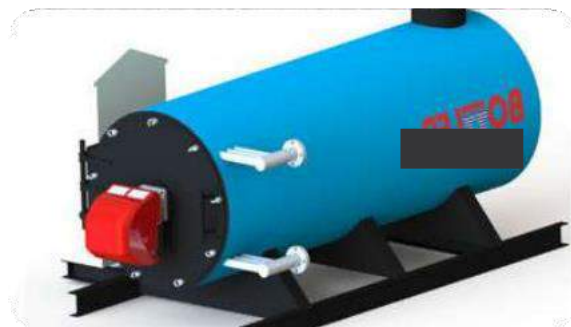
THERMIC FLUID HEATERS

Thermic fluid heaters are worldwide used process heating equipment. Thermic fluid heater is a non-pressurized system delivers process heat efficiently and cost effectively. It can be classified on basis of fuel type.



EDIBLE OIL HEATERS

Edible oil heaters are Modern and direct heating solution for Food processing industries. Best solution for multi-product manufacturing food processing and namkeen industries



HOT WATER GENERATORS

Designed to cater the hot water requirements of modern industry. With a Pressurized hot water generator option we can have hot water up to 140 Deg C. Very compact design for easy accommodation in lesser space convenient to small scale industries.



HOT AIR GENERATORS

Best in class hot air generation by two pass and multi pass options of Hot Air Generator. Precise selection of FD fan to meet exact volume requirement of Process.

HEAT EXCHANGER, VESSELS, STACKS AND TANKS



SECTION F



HEAT EXCHANGERS

We design fabricate and supply most of the types of heat exchangers like shell and tube type heat exchanger, double pipe heat exchangers, also according to the flow cocurrent flow, countercurrent flow, crossflow, cross/counter flow (Hybrid)



VESSELS

Design, fabrication, supply and installation of process vessels, pressure vessels, reactors etc for various application and different MOCs as per requirement from client.



TANKS

Design, fabrication, supply and installation of various sizes of tanks for various application and different MOCs as per requirement from client. Also with different types of inner lining as per applications.

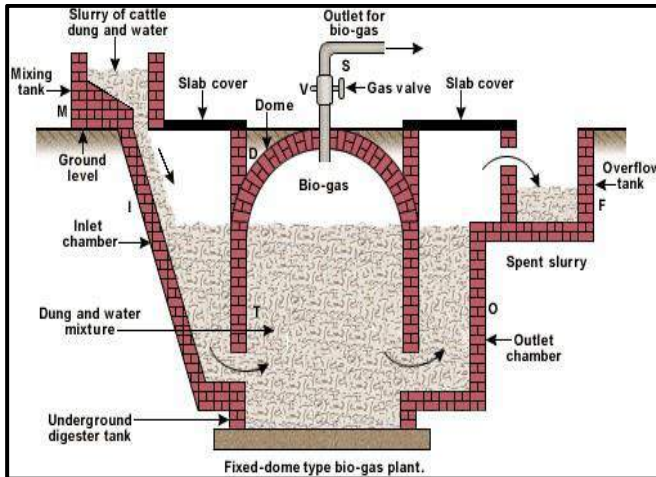
STEEL STACKS

Design, fabrication, supply and installation of various sizes of chimney, dismantling of existing stacks and erection of new stacks, partial replacement of stacks etc.

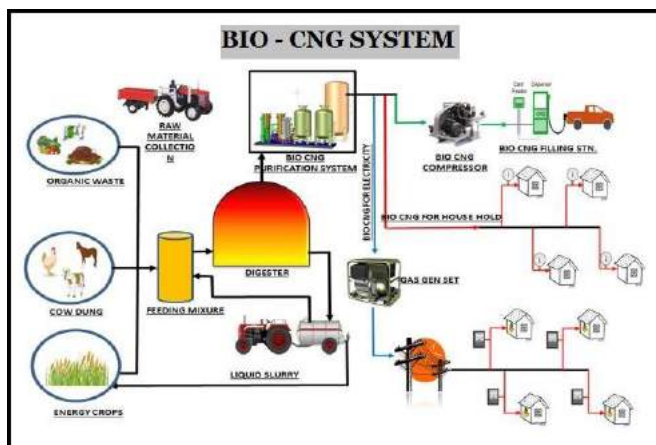
BIOGAS, CNG & WASTE MANAGEMENT SYSTEM



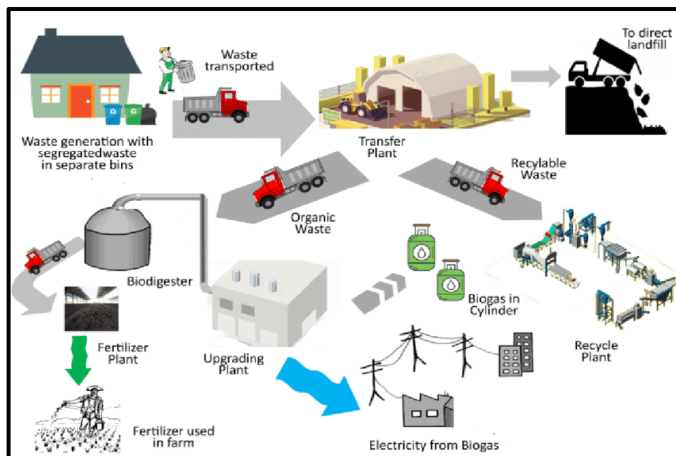
SECTION G



BIOGAS



CNG SYSTEM



WASTE MANAGEMENT SYSTEM

CLIENT REFERENCE



Domestic Client Reference



COMPANY ADDRESS

CONTACT US



“ Leadership of innovations & Best Energy
Solution with Most Customer



Head office

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393002, Dist-Bharuch, Gujarat, India.



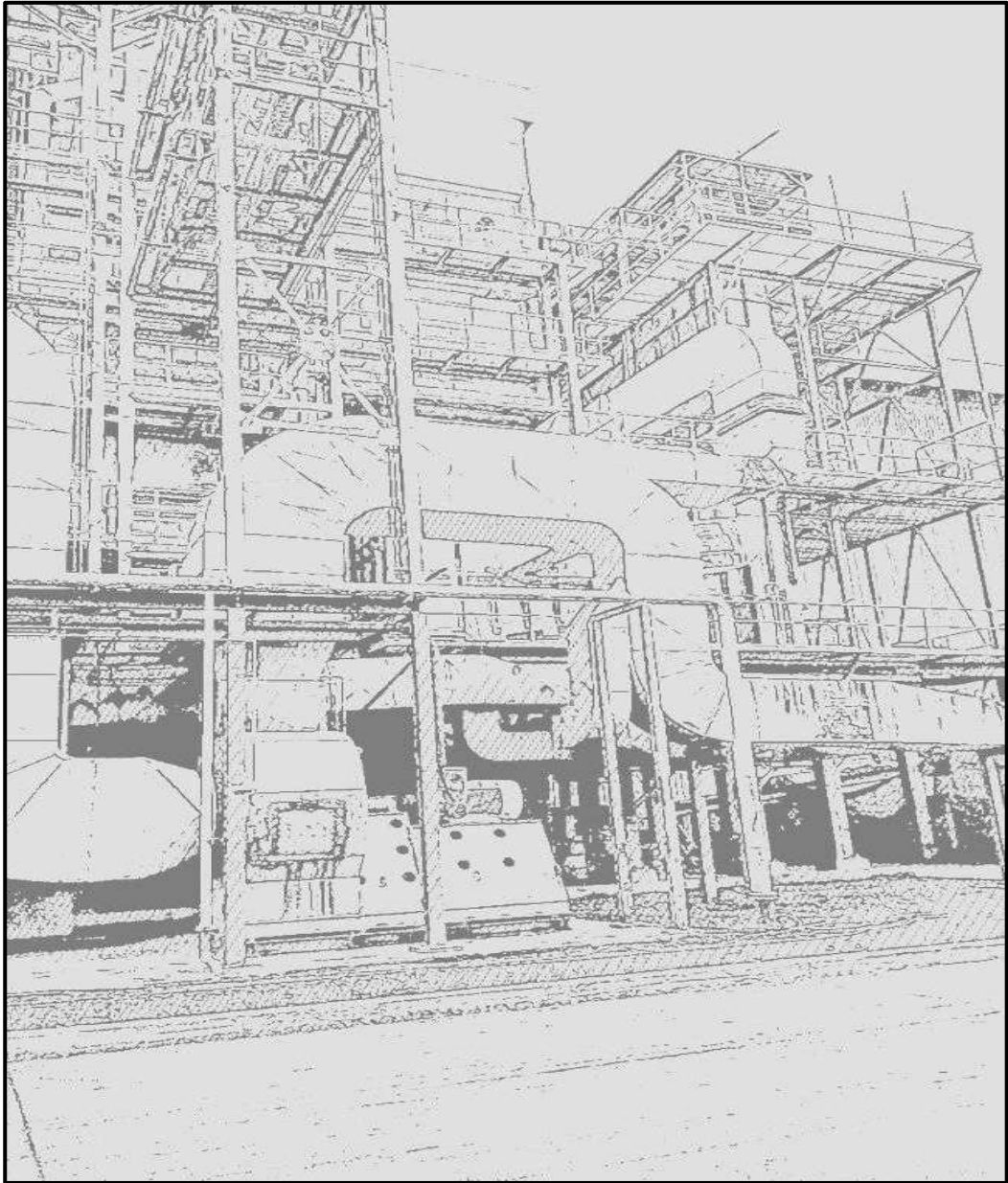
Warehouse

Address : Plot No.21,
Gurukrupa Industrial park, bakrol, panoli,
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Manufacturing

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