

COMPETENT SERVICES

ABOUT CEO

The main organiser of the company, Mr. Rajiv Sharma, is a chemical engineer having a rich experience of around 30 years. He has worked with well-reputed names who are engaged in manufacturing plastic, sugar, alcoholic beverages, and food products, etc. Mr. Rajiv Sharma is also well-versed with the latest technological developments related to combustion, retrofitting of incinerators and boilers, designing, and many more.



COMPETENT SERVICES

We design and supply Incinerators for Industrial, Hospital and Municipal wastes. These rapidly reduces the waste volume, reduces the waste into carbonaceous gases by the process of pyrolysis, maintaining recommended temperatures. These ensure safe and comfortable operations efficiently burns the hospital and chemical wastes. These keep the environment clean and safe for human beings. Our expertise lies in manufacturing, exporting and supplying high grade incinerators. The industrial incinerators that we offer are made using high grade material under the expert's supervision.

Incinerators are one of the demandable products of our company. The main function of these Incinerators is to burn up the solid / liquid hazardous wastes of Industry and keep environment clean. These Incinerators are equipped with **waste heat recovery unit** to produce steam / power to save on cost and better payback. These products are designed and manufactured under the supervision of our experienced engineers who have industrial experience of more than 20 years on this subject. We undertake Annual maintenance and operation of these systems / units installed by us,

- **Bio-medical Waste Incinerators** :- We are a renowned manufacturer, supplier and exporter of premium quality **Biomedical Waste Incinerator**. This product of ours is designed and fabricated in compliance with the set industrial quality standards. It is quite efficient in performance and hence is widely demanded by customer. Our bio-medical waste incinerators are suitable for all type of hospital wastes. The automatic material feeding systems are offered on demand.
- **Liquid Waste Incinerator** :- We offer liquid waste incinerator etc.the company is a renowned liquid waste incinerator manufacturer, exporter, and supplier, based in india. The liquid waste incinerator, offered by us, is made as per the set industrial standards only. The liquid waste incinerator is known for its excellent efficiency and longer working life.
- **Solid Waste Incinerator** :- We are offering solid waste incinerator etc. We are a renowned solid waste incinerator manufacturer, exporter, and supplier in india. The solid waste incinerator, provided by us, is designed and fabricated in compliance with the set industrial quality standards. The solid waste incinerator, which we offer, is efficient in performance and thus demanded by widespread clients.

Hazardous Waste Incinerator

- Incinerators designed by us ensure safe and comfortable operations. These efficiently burns up the hazardous wastes of the industry and help in keeping the environment clean.
- **Industrial incinerators** :- Our expertise lies in manufacturing, exporting and supplying high grade incinerators. The industrial incinerators that we offer are made using high grade material under the expert's supervision. These industrial incinerators are designed by the industry experts that ensure safe and comfortable operations. We have carved out a leading position in the market for manufacturing, exporting and supplying high grade **Incinerators**. They efficiently burn up the hazardous wastes and help in keeping the environment clean. The equipment is very safe to use and can be handled easily by the operators. These Incinerators can be used for the recovery of the materials from the waste.

Product details:

- Incinerators are one of the demanded products of our company. The main function of these Incinerators is to burn up the solid/ liquid hazardous wastes of Industry and keep environment clean.
- These Incinerators are manufactured with waste heat recovery system to produce steam / power for better payback and save cost. These products are designed and manufactured under the supervision of our experienced engineers who have industrial experience of more than 20 years on this subject. We undertake Annual maintenance and operation of these systems / units installed by us.
- These Incinerators are designed to reduce the waste into carbonaceous gases by the process of pyrolysis, which is supported by low oxygen in the primary combustion, where the temperature fluctuates from 800°C + 100°C. After the primary procedure, the carbonaceous gases are completely burnt down at the temperature of about 1000°C + 100°C. The temperature, the turbulence created and the extended retention of the gases thereof, provides total oxidation.

Some of the salient features of these incinerators are as follows:

- Conforming to CPC Band & EAP specifications
- Residue time 1 - 1.8 sec
- Environment friendly
- Suitable for animal houses, hospitals, pharmaceutical and bulk drug units
- Fully automatic, oil fired, twin chamber
- Our designed Incineration systems have been proved and widely appreciated as the most viable solution for hazardous waste disposal
- The hazardous components are completely oxidized and destroyed
- It instantaneously reduces the waste volume
- Waste can be disposed as it is generated, saving valuable space, transport cost & hazard of misuse
- Tailor made designs to suit Industrial needs
- Colorless and odorless emissions
- Emissions conforming to PCB norms
- Complete thermal oxidation of all hydrocarbons
- Safe disposal of hazardous solid / liquid wastes
- Use of high quality and proper MOC for long life
- Use of easily available components for low cost maintenance
- Incorporation of waste heat recovery system for faster payback
- Proper design for safe and comfortable operation



OUR PRODUCTS

Biomass Gasifier

The 'COMPETENT' gasifiers designed by us are an engineering marvel. These produce tar free gas that is suitable as fuel for internal combustion engine or thermal working. These are suitable for burning wood or any other agricultural wastes. Five standard types are available with a capacity range of 120 to 850 Nm³/Hr to feed Power Generator of 25 to 400 KVA. Larger sizes can be supplied on demand. 'COMPETENT' gasifiers can operate continuously without any trouble. These do not require shut down for refueling or ash removal. For larger plants fully or semiautomatic options are available. Process effluents are recycled and these are non-toxic. 'COMPETENT' gasifiers downdraft technology utilizes the principle that all tar is cracked at high temperature with long gas residence time in preheated refractory hearth. It is designed for varying load demands. The Gas is thus tar free. These Gasifiers are suitable to convert all kind of bio-mass into combustible gases for utilisation in the boilers / power generators. We can offer plasma Gasifiers even. These are suitable for recovery of energy from solid wastes or bio-mass to produce clean energy.



OUR PRODUCTS

High Temperature Furnace Coating

We are marketing ZQTB, a newly developed high temperature, erosion / corrosion resistant ceramic refractory coating compound. Looking at the acute need of industries for a suitable refractory coating compound, which can withstand high temperatures and also control erosion / corrosion of refractory linings, monolithic, ceramic fibre boards, modules and steel shells

Physical Properties

Colour	Creamish
Density	3.28 gm/cc
Wt. per cft.	210 lbs / 95 kgs
Bulk Factor	2.11
Cold crushing strength	350 kg / cm ²



Thermal expansion 0-1800°C	< 1.0%
Shrinkage at 1800°C	< 0.25%
Thermal shock resistance	Excellent
Electrical properties	Good Insulation
Temperature resistance	> 1800°C

OUR PRODUCTS

High Temperature Furnace Coating

Main Characteristics & Advantages

- Easy to apply by toweling, brushing or spraying
- Good adhesion to metals, refractory bricks, monolithic, cast-able and ceramic fibre modules etc.
- Excellent dry strength, Excellent resistance to powdering
- Good adhesion, Chemical resistance, Easy to mix, Gas-tight surface without spalling or cracking at 1800oC, Reduction in slag adhesion
- Porosity approximately 22% at service temperature 1350oC
- Resistant to severe attack and sand blasting effect of burning fuel oil
- Considerable increase in service life of refractory linings and heating systems
- Resistant to the influence of steam, acids, alkalis, fumes of sulphur and Vanadium compounds and molten metals, Odourless and non-hazardous

ZQTB : Compound refractory coating is exceptionally stable and durable under conditions of thermal, mechanical and chemical onslaught encountered in the pulping process. It enhances the life of refractory many fold.

ZQTB : Compound coating can increase the service life of heating systems by many folds. It is specially useful on boiler imbed tubes, main bank tubes, or ares where direct heat or flame hits.

ZQTB : Compound has unlimited applications and is used in the following areas where continuous and high temperature heating is found hazardous, especially in the heating chambers constructed with conventional materials.

OUR PRODUCTS

Rolling Mill Furnace

We are among the acclaimed names in the industry for providing **Pusher Type Furnaces**. The off ered furnaces are designed in strict compliance with the established industry standards using high-grade materials and sophisticated technology. Given their high capacity and high operational efficiency, these furnaces are highly regarded by the customers.



COMPETENT SERVICES

We offer an extensive range of **Air pollution control systems** like:

1. **Wet Scrubbers.** These are Water and chemical scrubbers for dissolving obnoxious gases & particles from the air
2. **Multi-Cyclone Dust Catcher** for arresting particles being carried over by air / flue gases.
3. **Bag Filters,**
4. We also provide **customize solution** as per the **customer requirement.** The features of these are:-

- Pollution parameters as per PCB Norms
- Trouble free and low cost Operation
- Durable and long life

• **Wet Scrubber: -**

We supply like Wet Scrubbers for air pollution control for washing off the suspended particles and soluble obnoxious gases. We totally concentrate on the quality of the products in order to keep the customer satisfaction in mind. Backed by a team of experts, we are able to manufacture, export, and supply **Air Pollution Control Scrubbers.** The Air Pollution Control Scrubbers, offered by us, are made using Fibre-reinforced plastic and Stainless Steel and are manufactured under the supervision of the experts. Our assortment of Air Pollution Control Scrubbers encompasses Wet Scrubber and Chemical Scrubber.

The salient features of our wet scrubbers are: -

- These are low-energy scrubbers have pressure drops of less than 12.7 cm of water.
- No secondary dust sources, Handles high-temperature, High-humidity gas streams,
- Minimal fire and explosion hazards as water eliminate the possibility of explosions.
- Ability to collect both gases and particulate matter
- As corrosion can be a prime problem associated with chemical industry fibre-reinforced plastic and stainless steel are used as most dependable materials of construction.
- These neutralize corrosive gases & Parameters as per PCBs norms
- Small space requirements, Trouble free and low cost operation & long life



OUR PRODUCTS

Air Pollution Control Equipment

Multi-Cyclones: -

We are designing and manufacturing an **extensive range of Air pollution control systems**. These are Bag filters and Multi-Cyclones to arrest fine suspended particles from gases / air, water / chemical scrubbers to clean up the waste gases and washing off all suspended particles and soluble obnoxious gases and Multi-cyclones type dust catcher to arrest slightly bigger sized suspended particles from Industrial waste gases. The Multi-cyclones type dust catcher are very high efficiency dust catchers collecting particles sized up to 10 microns

The salient features are:-

- These are with **Low-energy requirements**
- Once particulate matter is collected, it cannot escape from hoppers or during transport.
- **Handles high-temperature,**
- **Small space requirements**



OUR PRODUCTS

Boiler Furnaces

We manufacture, supply and export the best quality **Multi Fuel Biomass Furnaces** for Boilers. We also provide best quality service of maintenance and operations of these systems. Our main area of operation is to upgrade existing boilers to make them pollution free and smokeless. The offered furnaces are characterized by their optimal design.

Our specialization is in the field of up-gradation of existing **boiler furnaces for pollution free performance. We retrofit** existing boilers to **pollution free and smokeless multi-fuel furnaces** to save fuel costs and steam production cost.

Furnaces are modified so that different kind of fuels can be burnt up efficiently in a single furnace. These fuels can be agricultural wastes from farms - like wheat hay / rice husk / mustard husk or wastes from food processing units, Industrial combustible wastes, coal or PET Coke

Our major areas of operation are:

1. Design and erection of **multi fuel / Pet-coke furnaces** for existing boilers
2. Installing waste heat recovery systems to reduce fuel consumption
3. Utilize proper M.O.C. to increase the life of combustion systems / Furnaces
4. Provide protective coatings to safeguard against high temperature conditions
5. Optimize design parameters to reduce power consumption



Pet Coke Furnace

We are operating as a manufacturer and supplier of **PET Coke Furnace**. These furnaces are precision engineered by domain experts and deliver optimal performance. Premium quality materials are sourced from established vendors for manufacturing these furnaces. Owing to their long-term functionality, these furnaces are highly appreciated by the customers.

OUR PRODUCTS

Boiler & Furnace Accessories

- ID Fans
- FD Fans
- Membrane Walls
- FBC Nozzles
- Refractory Bricks & Mortars

We offer a **wide collection** of boiler and furnace accessories like:

- Boiler Tubes with IBR Certification or manufactured as per the needs of the clients and with IBR Certification
- Gas / Oil Burners of LPG / Bio-Gas and HSD burners for use in the boilers, Incinerators or other kind of furnaces.
- Blowers - ID, FD & PA Fans of various sizes are manufactured by us. These are so designed to save on power consumption. We manufacture centrifugal blowers in various materials as per requirements. The company is a well-reckoned centrifugal blowers manufacturer, exporter, and supplier in india. The centrifugal blowers, offered by us, are known for their outstanding quality and long lasting nature. Our centrifugal blowers are made from the high-grade materials and as per the set industrial standards.
- Bed Nozzles – We manufacture and supply all kind of fluidized bed / Combustion bed air nozzles in SS 410, SS 304, Graded Cast Iron for all kind of fuels like PET Coke, Agro-wastes, Coal etc.
- Refractory of all kind and shapes as per the demands of the client. These can be refractory bricks (Complete Range), blocks of all shapes and sizes (Including tailor made patterns), Accoset Type Fire cement (All Types), Fire Crete Supers (All Types), Whytheats (All Types), Grouting materials (All Shrinkomp range) and other related range.



OUR PRODUCTS

Consultancy

- **Furnace Designing** - We undertake designing of all kind of furnaces. Our major areas of operation are:
 1. Designing and erection of all type of Incinerators.
 2. Installing waste heat recovery systems to reduce fuel consumption.
 3. Utilize proper M.O.C. to increase the life of combustion systems / Furnaces.
 4. Provide protective coatings to safeguard against high temperature conditions.
 5. Optimize design parameters to reduce power consumption.
 6. Designing and erection of all type of Incinerators.
- **Construction of Furnaces** - We undertake construction with the best work force we have with us. Our furnaces are highly efficient and give best performances. The furnaces are specially treated with different materials for long life and trouble free operations.
- **Machinery erection** – We undertake all type of plant and machinery at sites. Our team is equipped with best tools and tackles and have capability of completing jobs within the stipulated period.

COMPETENT SERVICES

CONTACT

COMPETENT SERVICES

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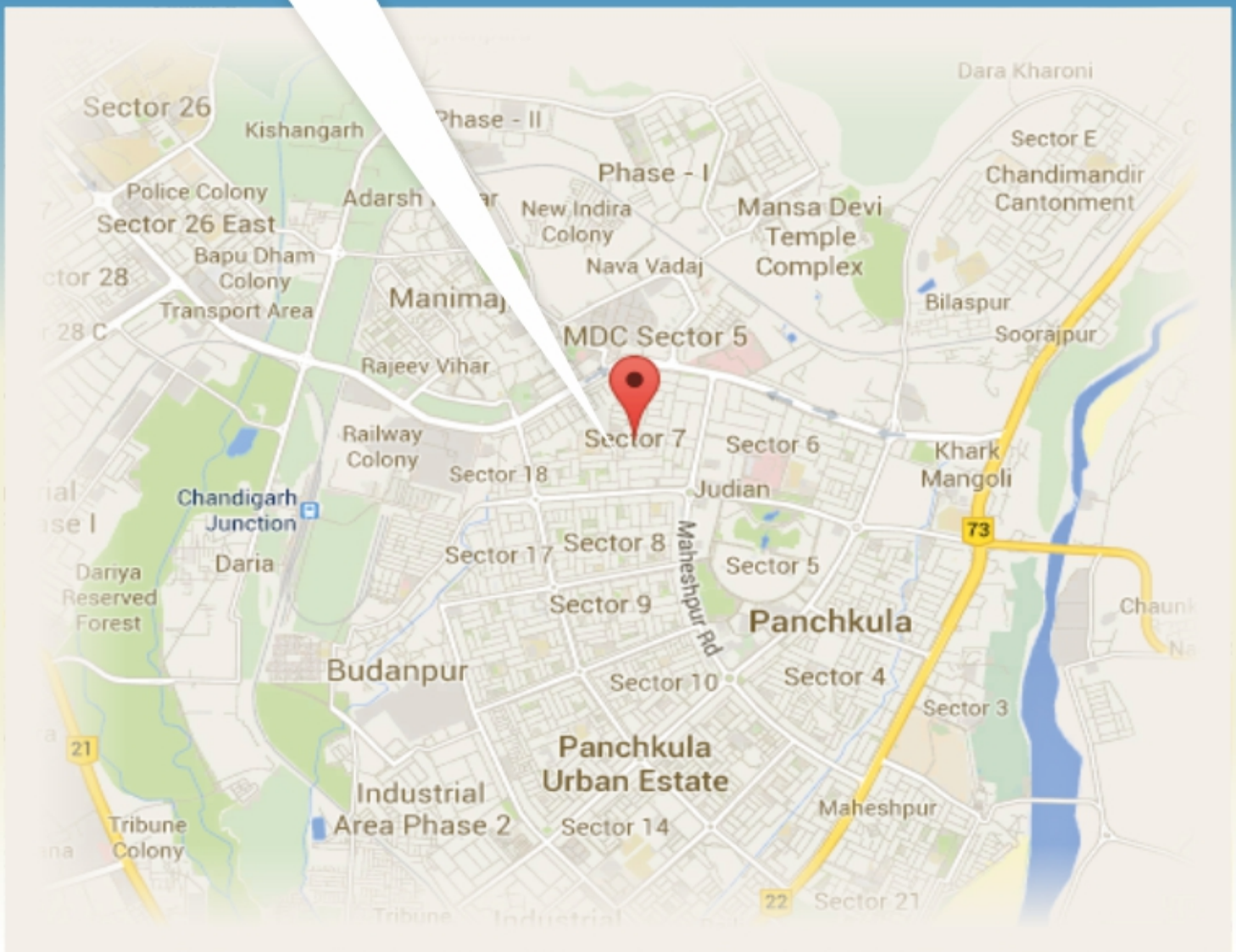
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