



SMB Engineers Pvt. Ltd.

Since 1995

**Engineering Experts in
Solid-Liquid-Gas Separation**

**A dynamic and customer-centric organisation with
a strong sense of environmental protection**

600+
Clients Worldwide

25+
Countries

A well recognized firm in the
field of pollution control and
process engineering technology.

About Us

With a strong conscious to conserve our shared environment, SMB Engineers was founded in 1995 to tackle the ongoing crisis of industrial air pollution control in India. Since then, our pioneering solid-liquid-gas separation equipment designs have been repurposed to cater to a variety of process applications. Equipped with a state of the art manufacturing facility spread across 30,000 sqft in Mumbai and a team of class-leading engineers, we are dedicated to meet the needs of our clients in Sugar Paper and other Process industries.

Our core values allow us to fulfill the visions of our founders by remaining a dynamic and customer-centric company with a strong sense of environmental protection. With clients in over 25 countries worldwide and having successfully completed 600 system installations, SMB has become a well recognized firm in the field of pollution control and process engineering technology.

Air Pollution Control

For over two decades, SMB Engineers has been at the cutting edge in the development, design and installation of emission reduction systems and technologies for customers in the Sugar and other process industries. Our unparalleled innovation and expertise enable us to closely examine your needs, listen to your challenges and explore the most suitable technology to achieve the agreed-upon performance of your emission control solution. Not only does this provide lasting benefits for the environment, but keeps you competitive and compliant, now and for the future.

SMB's Venturi Wet Scrubber

SMB Engineers are the proud introducers of the Venturi Wet Scrubber system for arresting fly ash from Bagasse fired boilers in India. Our offerings include Packed bed and Sieve Tray Scrubbers for combined desulphurization and denitrification. With multiple design enhancements to the original principle of Wet Scrubbing, SMB's Scrubbing systems offer consistent performance as an efficient gaseous and particulate pollution control equipment with negligible maintenance over its entire life.

Key Advantages

300+ successful installations ranging from 15,000 m³/hr to 575,000 m³/hr flue gas capacities.

Specialized gold standard venturi design to maximize gravimetric efficiency with lowest pressure drop.

Guaranteed achievement of pollution control norms set by relevant government authorities.

50 mm WC or lower pressure drop across the entire scrubbing system.

1/5th the operational cost compared to other power demanding emission control equipment

Suitable for boiler capacities 5 TPH to 150 TPH.



SMB's Sugar De-dusting System

As our very first clients, SMB Engineer's roots lie in the sugar industry. Flying dust in the sugar house poses a health hazard to workers as it is highly flammable and creates inhospitable working conditions. SMB's Sugar De-dusting system tackles these critical issues and ensures a dust free environment in the sugar house.

Key Advantages

210+ system installations where this serious issue of dust accumulation has been successfully solved.

99% dust capture is guaranteed and brought back to production which otherwise is lost to the environment.

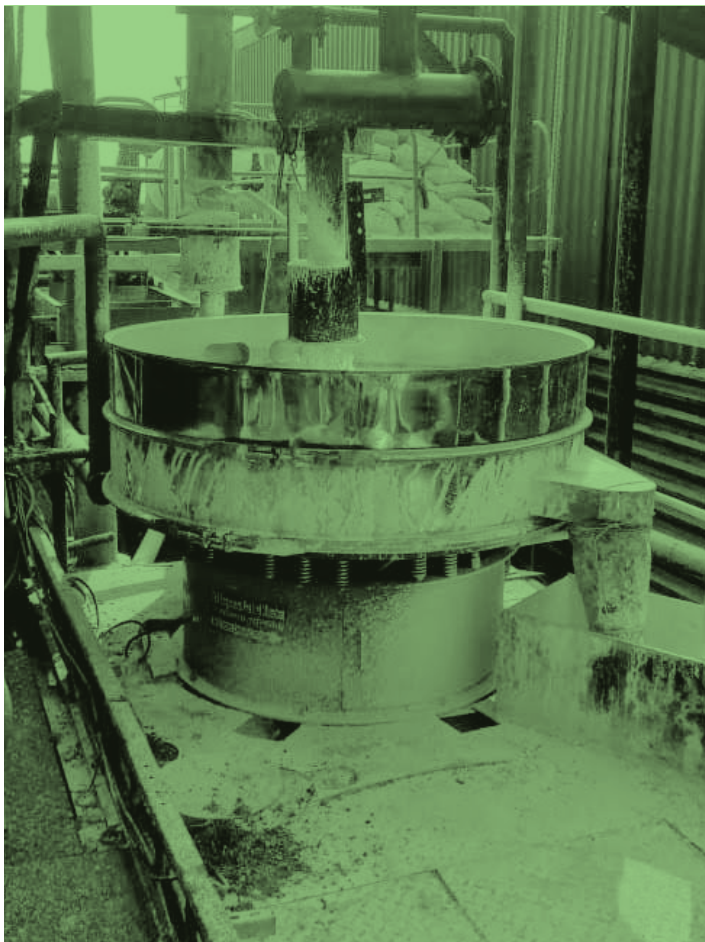
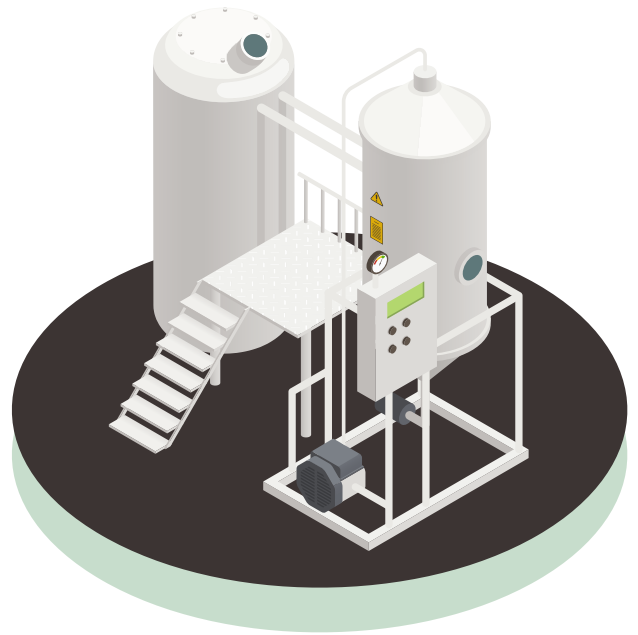
Sparkling white sugar is available at bagging which fetches a higher market price.

25 years of experience helps decide the key dust emanating areas for suction hood placement.

Computerized duct network design using our proprietary inteli-flow software to arrive at the most optimal design.

Process

At SMB we design and manufacture a range of process equipment primarily for Sugar, Paper and Power Generation industries. Our deep and comprehensive understanding of the manufacturing process allows us to tackle a range of process related issues and deliver low cost and effective solutions to our clients. With 25 years of experience in these industries, our goal is to eliminate uncertainty and guarantee uninterrupted process handling for years and beyond.



SMB's Vibro Screens

SMB's innovative design improvements over the years have paved the way for a rugged multi-purpose screening equipment which is easy to service, self-cleaning, incurs no maintenance and provides uninterrupted performance for days.

- 2700+ installations worldwide in the last 25 years to 500+ clients.
- Low cost spares and dedicated on call machine experts to reduce down time.
- Specially developed reinforcement design prevents tearing of wire screen.
- Self-cleaning arrangement ensures online, continuous cleaning of screens.
- Adjustable screening pattern maximizes the throughput and screening efficiency.

Sugar House Equipment



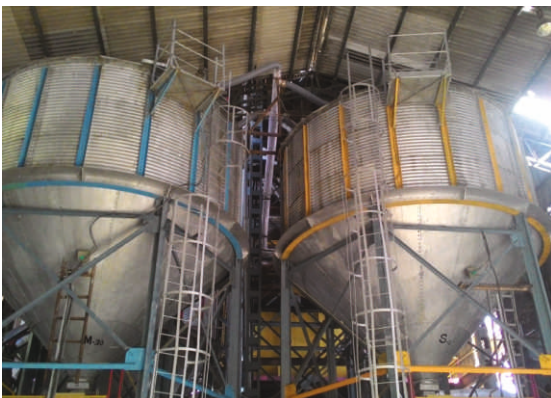
SMB's Plain/Multi tray Grass Hopper

SMB's high efficiency grass hoppers are designed with special computerized designing software to give highest rate of heat transfer between the heating medium and the sugar crystals thereby reducing moisture content and cooling them simultaneously. A heavy-duty connecting rod delivers proper vibration to the hopper plates for sugar crystal displacement.



SMB's High Efficiency Grader

SMB's heavy-duty grader offers a perfect engineering solution for screening of fine sugar particles. The screens are vibrated by unbalanced vibrating mechanism or are direct force excited, depending upon the application and the capacity of inlet feed. The machine comes with Isolation frame which reduces vibration to the support structure significantly. Models available for 10 T / 20 T / 25 T / 30 T / 35 T



SMB'S Sugar Silo / Bin

We design and manufacture Sugar Silos (Bin) in different type of MOC ranging from MS / SS 304 / SS 409 / Aluminum / Galvanized Steel as per client's requirement and regional demand. Our Sugar Silos are well accepted in Sugar Industries in India and abroad having clientele of more than 200+ Sugar / Paper / Process Industries.



SMB's Bucket Elevator

SMB's high efficiency sugar elevator provides faster lift of sugar from any level to any height. The Buckets are in PVC food grade/ stainless steel and are directly bolted to the belt. The bottom and the upper parts of the casing are made with heavy-duty steel section with suitable stiffener/ flanges for proper fitting to the required height.

SMB's Induced Draft Fans (ID Fans)

SMB's high efficiency, low power consumption ID / FD / SA Fans offer maintenance free operation for a wide range of purposes and needs based on your process requirements.

Key Advantages

Designed for flow rates from 10,000 m³/hr to 2,50,000 m³/hr and heads from 50 mm WC to 750 mm WC.

In-house static and dynamic balancing machines which eliminates inherent vibrations during operation.

Computer aided design and analysis ensures the performance of each unit.

20% less power consumption compared to conventional designs.

3000+ million revolutions guaranteed owing to the heavy duty construction of all accessories.



SECTORS WE WORK



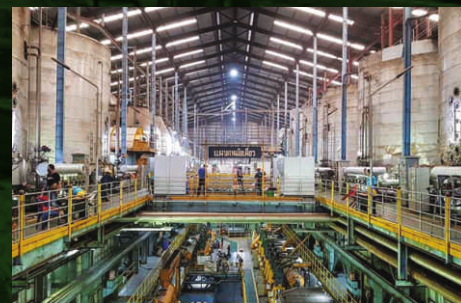
Air Pollution Control

- Venturi Wet Scrubber
- Sugar De-dusting Systems
- Fabric Filter / Bag Filter - PJBFB
- Flue Gas Desulphurisation / Fumes Scrubbing
- Induced Draft Fans (ID Fans)
- Ventilation System



Water treatment

- Effluent Treatment Plants
- Oil Skimmer Unit
- Fly Ash Slurry Handling System



Process

- Vibro Screens
- Rotary Drier and Fluidized Bed Drier
- Sugar House Equipment
- Air Heaters
- Lime Grit Separator
- Bagacillo Separator
- Cooling Towers

SUGAR | PAPER | PROCESS



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