



# ENVIROPOL

AN ISO 45001:2018 CERTIFIED

**AIR POLLUTION CONTROL EXPERTS**



## OUR CONTRIBUTION TO THE MOTHER NATURE "REDUCED OVER"

**20+ Million  
Tonnes**

Particulate  
Emissions

**300+ Million  
Tonnes**

Gaseous  
Emissions

[www.enviropolengineers.in](http://www.enviropolengineers.in)



# COMPANY INTRODUCTION

**Enviropol** is a group of Technocrats who are involved In Designing, Manufacturing, Supplying, Erection and Commissioning of **Air Pollution Control Devices** and **Biomass Drying** through Low temperature waste heat recovery systems. Started in the year 2003 we have come a long way with more than **400+ Installations** spread over **30+ Countries** and marking our presence in the broad spectrum of industries and applications.

What we have started few years back has now become a revolution. Enviropol stands with the Vision of India at COP 15 and Glasgow Conference 2021 in contributing to the reduction of Carbon footprints across Industries. We are continually improving ourselves through a dedicated R&D team to meet the present Norms of CPCB and remain future ready to follow European Standards.

## VISION



Creating Sustainable and Heathier Environment for future generations.

## MISSION



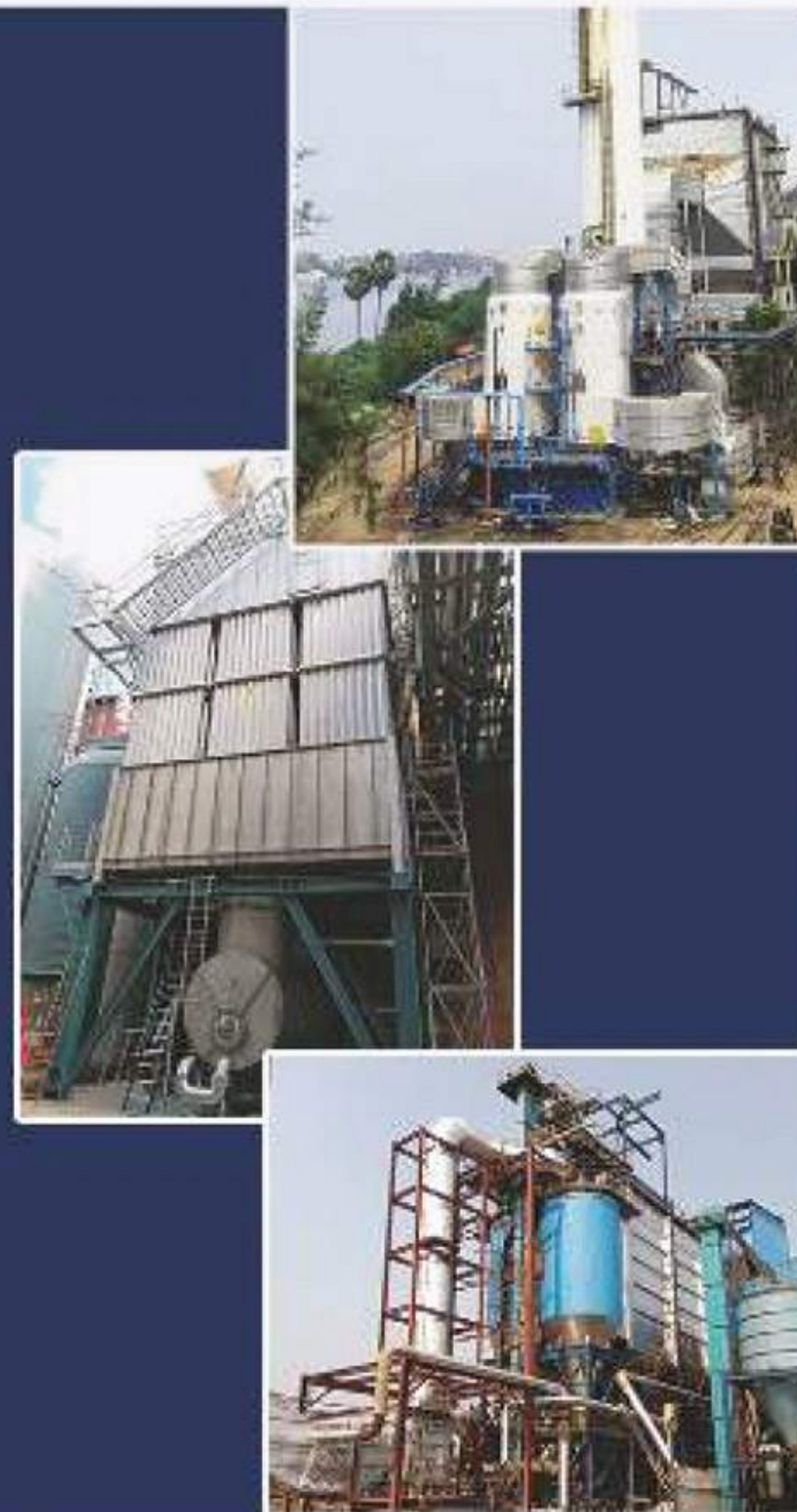
To control the emissions from the Industries and to protect our "Mother Nature" for our future generations by deploying most advanced innovative technologies

## OUR PRODUCTS



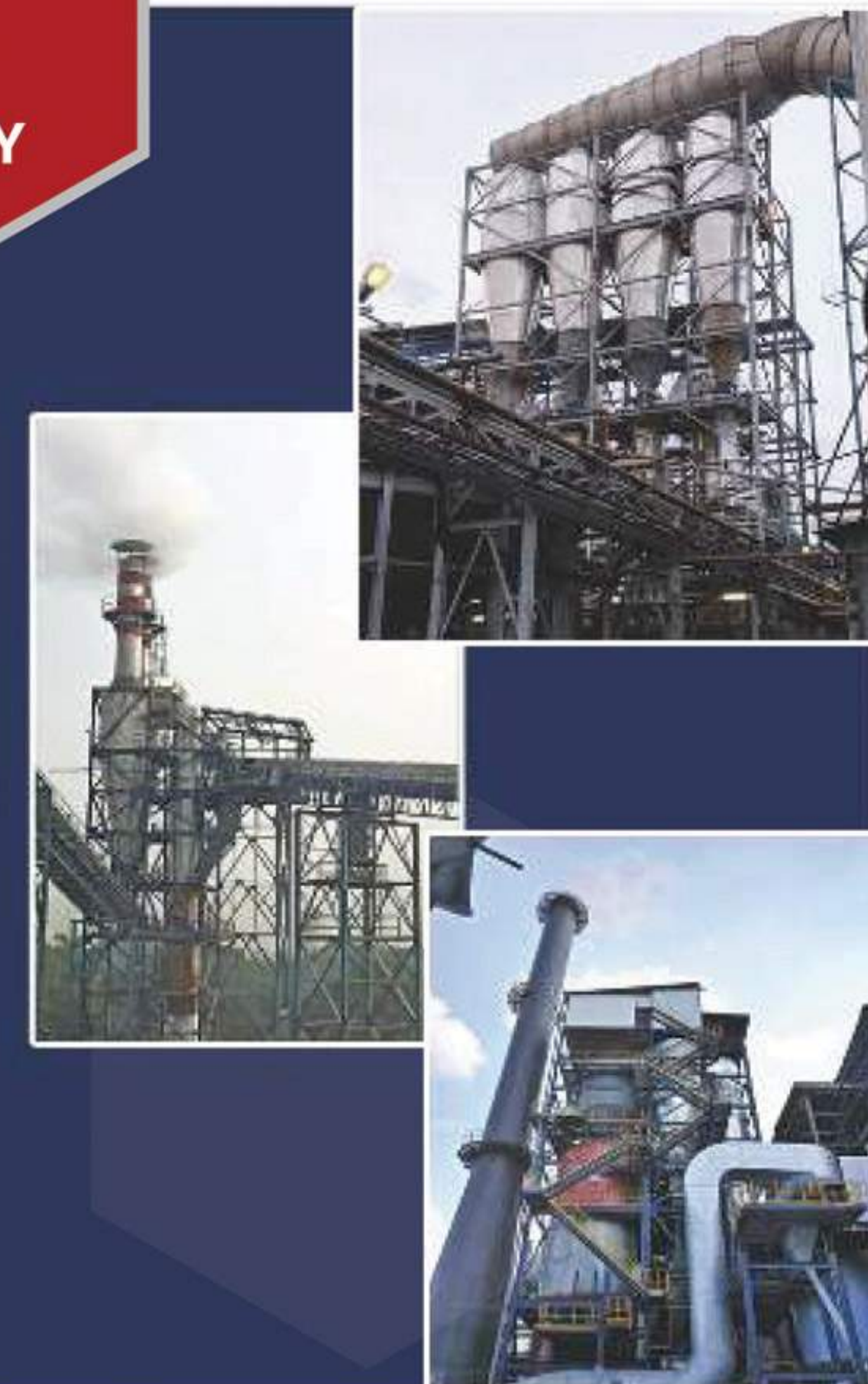
### ENVIRONMENT

- WET SCRUBBERS
- WESP (WET-ESP)
- BF (BAG FILTER)
- DUST SUPPRESSION SYSTEM
- DUST AND FUME EXTRACTION
- SLURRY DE-WATERING SYSTEM
- EGB (ELECTRIFIED GRAVEL BED)
- ESP (ELECTROSTATIC PRECIPITATOR)
- FGD (FLUE GAS DESULPHURIZATION)



### ENERGY

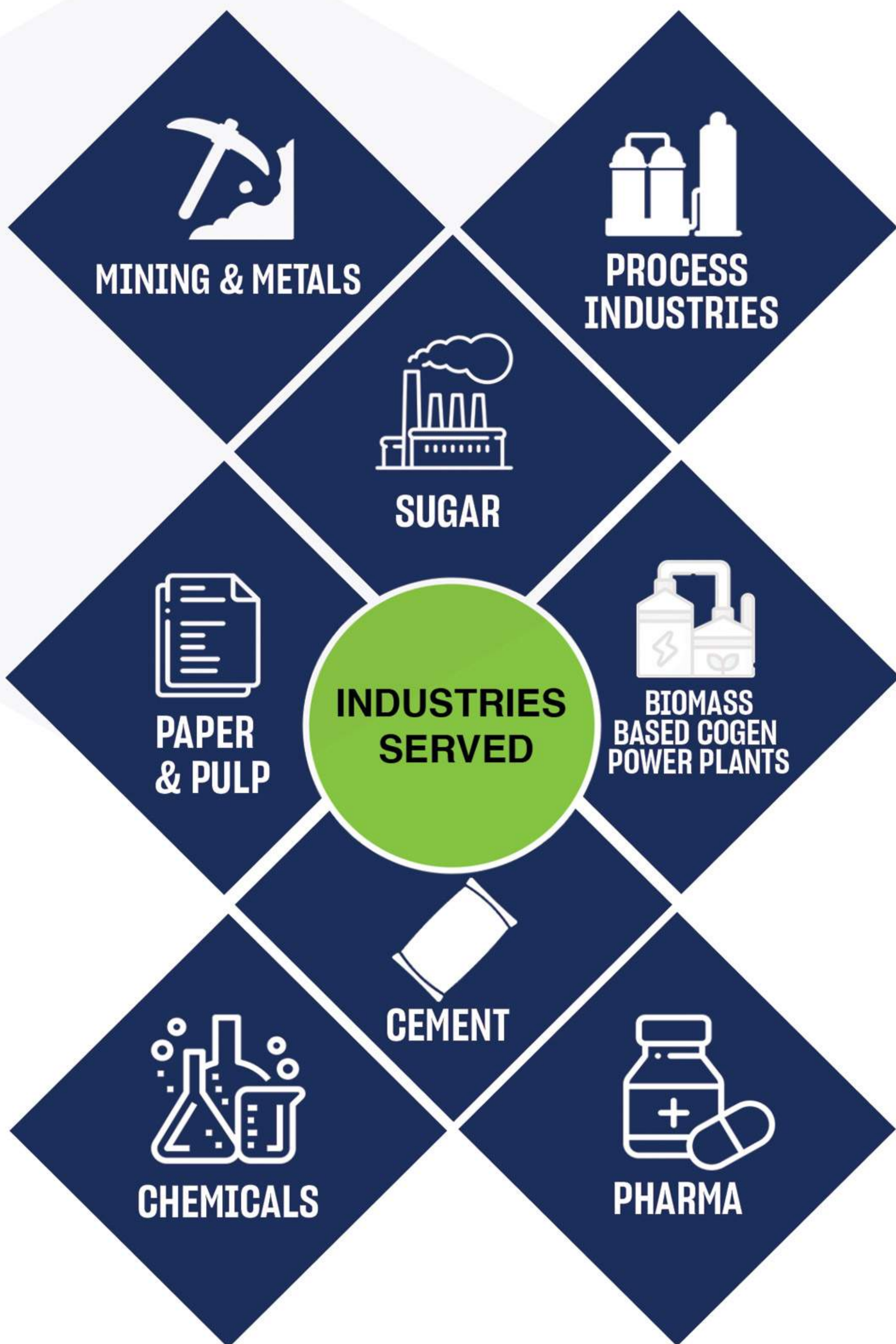
- HYBRID DRYER
- BIOMASS DRYER
- CO-GEN POWER PROJECTS (EPC BASIS)



## ENVIROPOL'S JOURNEY







## AWARDS

INDUSTRY EXCELLENCE FOR 2020.

INNOVATIVE PRODUCT OF THE YEAR 2021.



**“HYBRID BIOMASS DRYER”**

**CII AWARDED**

*“MOST INNOVATIVE ENERGY SAVING PRODUCT”*

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ISO CERTIFIED

**ENVIROPOL**  
ENGINEERS PVT. LTD.

*“Pollutants are Inevitable but Pollution is not”*

ENVIRONMENT

ENERGY

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# WET SCRUBBER

HIGHLY ADVANCED, INNOVATIVE AND EFFICIENT TECHNOLOGY

## MANUFACTURING RANGE

- ✓ Fixed Vane Scrubber
- ✓ High Energy Venturi Scrubber
- ✓ Packed Bed Scrubber
- ✓ Multi Jet Spray Scrubber
- ✓ Dynamic Scrubber
- ✓ Fluidized Bed Nye Tray
- ✓ Wet Scrubber Internals

GET EMISSION BELOW  
**50 mg/Nm<sup>3</sup>**

## APPLICATIONS

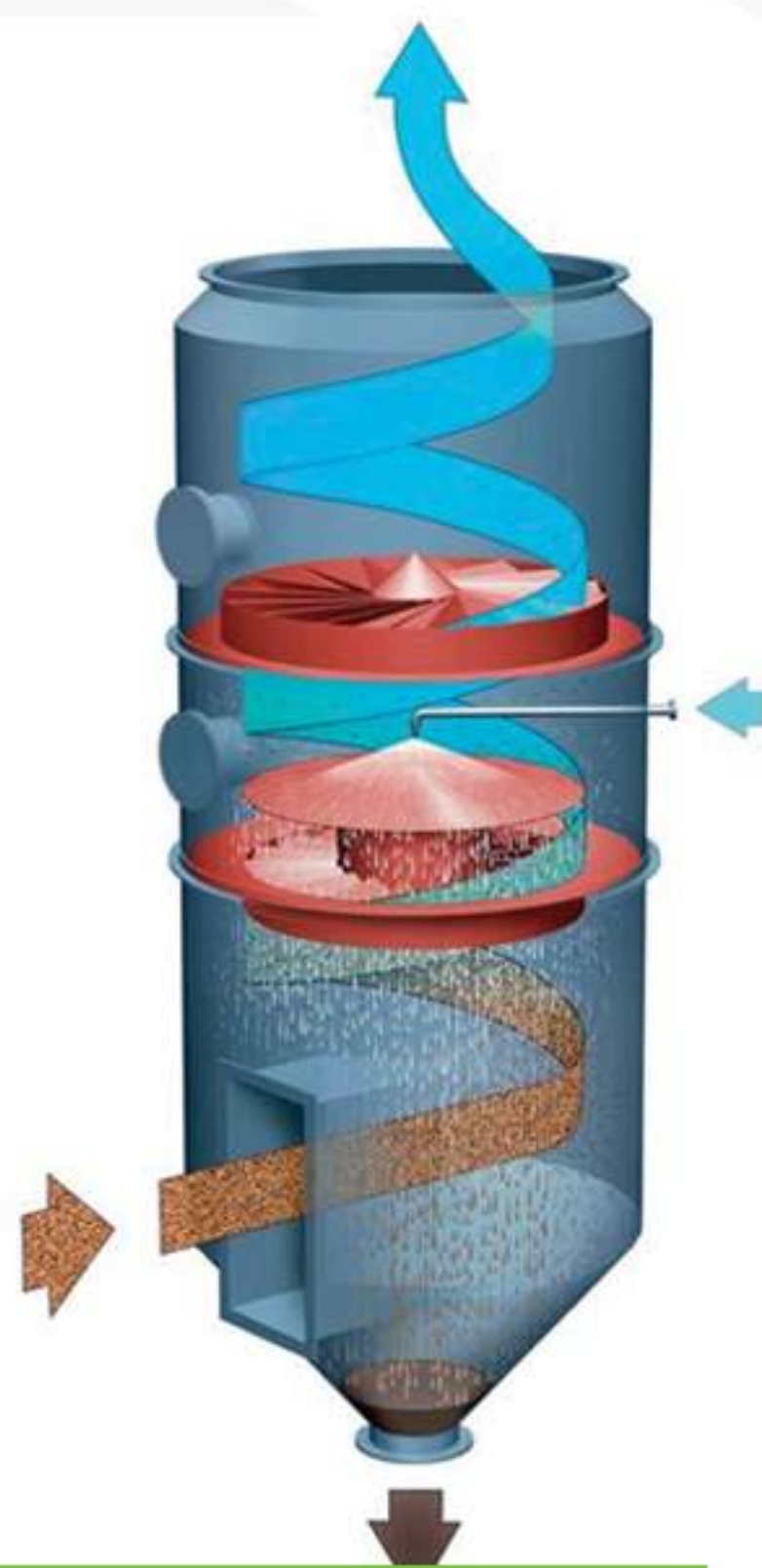
- ✓ Biomass Fired Boilers
- ✓ Chemical Applications
- ✓ Coal Fired Boilers
- ✓ Inorganic Fumes
- ✓ Volatile Organic Compounds
- ✓ Particulate Matter Control



**ENVIROPOL** "Pollutants Are Inevitable But Pollution is Not"  
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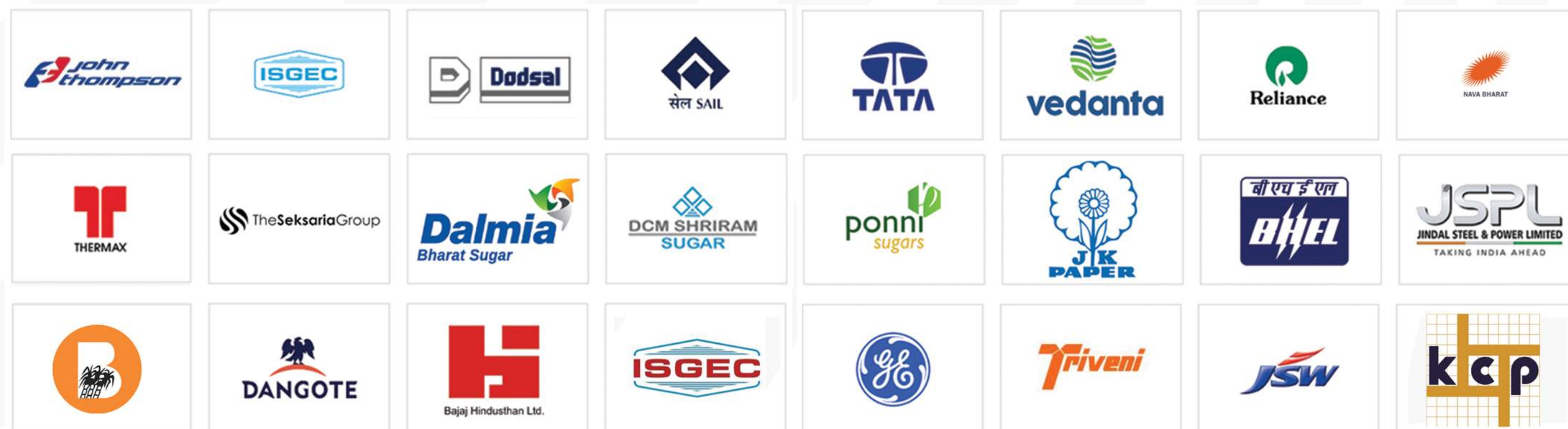




## OUR USP

- ✓ Experience on Most Variants
- ✓ 350+ Installations Across India
- ✓ Upgradability To Remain Future Ready
- ✓ Installation on Largest Boiler Capacity 220TPH
- ✓ Hybrid Technologies for Better Efficiency  $<50\text{mg}/\text{Nm}^3$
- ✓ Widest Spectrum of Wet Scrubbers
- ✓ Introduced FVS in India for the 1<sup>st</sup> time, which can run on high TSS

## CLIENTELE



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# WET-ESP

## WET ELECTROSTATIC PRECIPITATOR

ADVANCED TECHNOLOGY FOR ULTRA CLEAN GAS

### MANUFACTURING RANGE

- ✓ Square Construction
- ✓ Round Construction
- ✓ Honeycomb/Circular/Concentric Electrodes

### APPLICATIONS

- ✓ Sticky Dust
- ✓ Incinerators
- ✓ TAR Removal
- ✓ Flammable Dust
- ✓ Recovery Boilers
- ✓ Industrial Boilers
- ✓ High Resistivity Dust
- ✓ Blue Haze Abatement
- ✓ Ultra Fine Gas Cleaning
- ✓ Condensed Acid Aerosols
- ✓ Rice Husk and Solid fuel Fired Boilers

GET EMISSION BELOW  
**5 mg/Nm<sup>3</sup>**

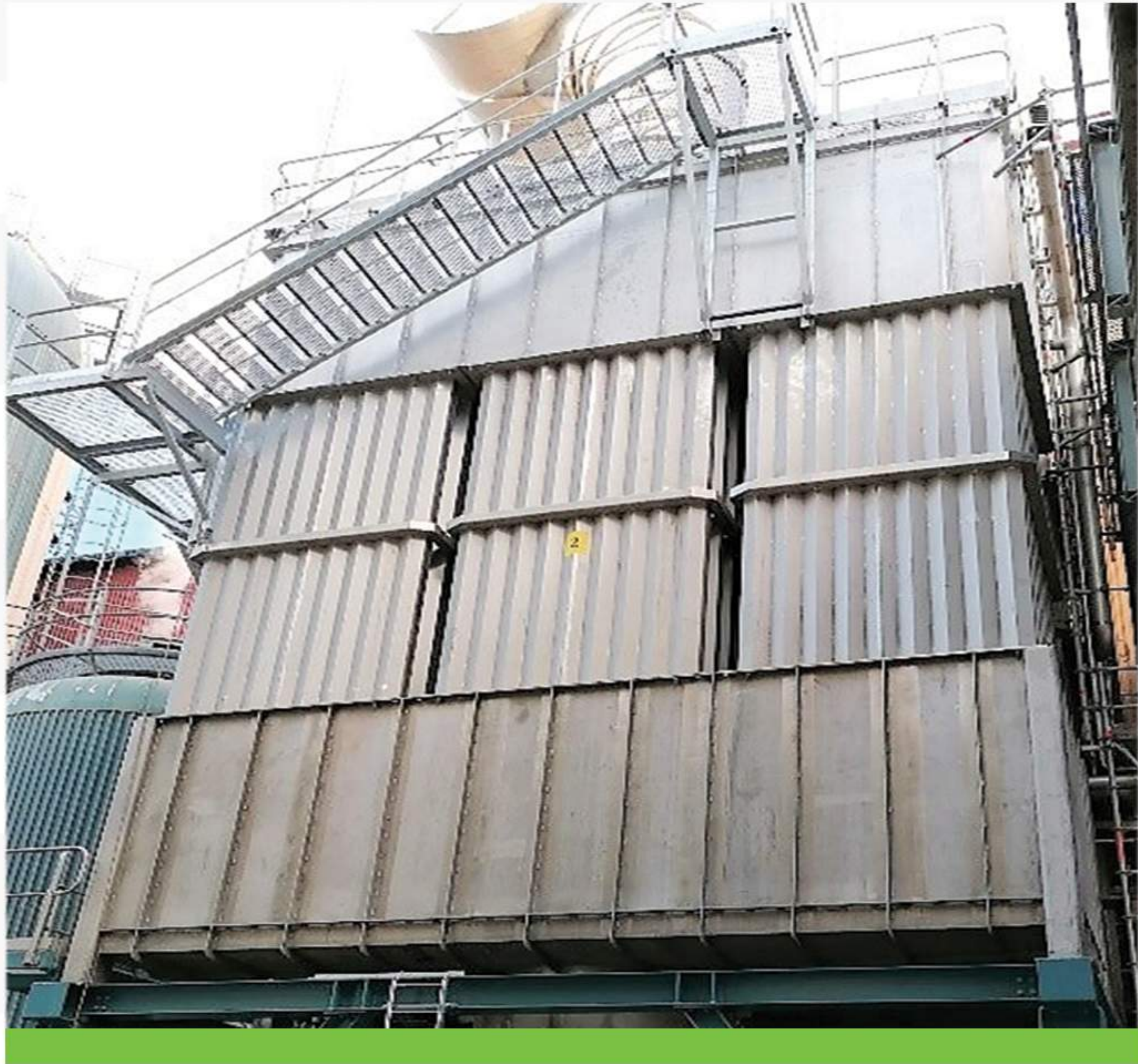


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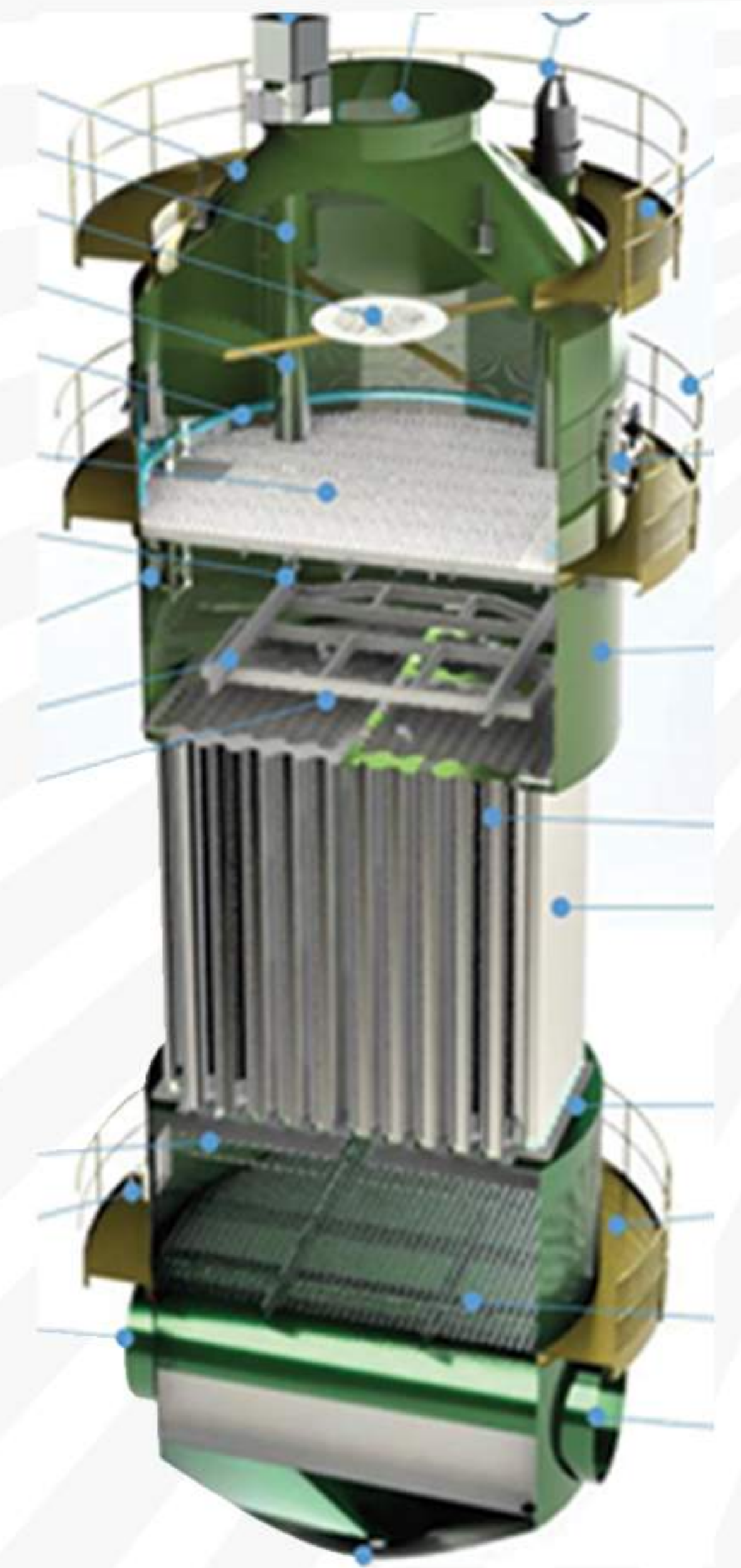
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**1<sup>st</sup>**  
**Installation in  
the World on  
Chemical Recovery  
Boiler in  
Pulp & Paper Plant**



## OUR USP

- ✓ Emissions Achieved  $<5\text{mg}/\text{Nm}^3$
- ✓ Good Experience in Smelters/Coke Ovens/Fe & Non Fe
- ✓ Technology Tie up with Swedish Company
- ✓ Competitive Pricing  $>90\%$  Manufacturing in India
- ✓ Worlds 1<sup>st</sup> Installation in the Sugar Industry/Pioneered
- ✓ World 1<sup>st</sup> Installation on Chemical Recovery Boiler (Pulp & Paper) with less than  $1\text{mg}/\text{Nm}^3$

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# BAG FILTER

FOR EFFECIENT DRY SEPARATION

## MANUFACTURING RANGE

- ✓ Online Cleaning Bag Filter
- ✓ Offline Cleaning Bag Filter
- ✓ Cyclo Bag Filter (Cyclone+Bag Filter)

GET EMISSION BELOW  
**50 mg/Nm<sup>3</sup>**

## APPLICATIONS

- ✓ Dust Extractions
- ✓ Fume Extractions
- ✓ Spentwash Fired Boilers
- ✓ Product Recovery

## ADVANTAGES

- ✓ Trouble Free Operation
- ✓ High Collection Efficiency
- ✓ Can Capture Ultra Fine Particulate
- ✓ Mechanized Down Stream
- ✓ Low Compressed Air Requirement



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# ESP

## ELECTROSTATIC PRECIPITATOR

### MANUFACTURING RANGE

- ✓ VEP - Vertical ESP
- ✓ DRY & WET ESP

### APPLICATIONS

- ✓ Dust Extractions
- ✓ Fume Extractions
- ✓ Spentwash Fired Boilers
- ✓ Process Industries

### ADVANTAGES

- ✓ Highly Durable
- ✓ Less Pressure Drop
- ✓ Low Operating Cost
- ✓ Advance Rapping System
- ✓ Can Handle Large Volume of Gases



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# EGB

## ELECTRIFIED GRAVEL BED PRECIPITATOR

**BEST SUITED TECHNOLOGY FOR STICKY AND  
HYGROSCOPIC SUB-MICRONIC PARTICULATE MATTERS**

### MANUFACTURING RANGE

- Stand alone EGB
- MEPA (ESP+EGB)
- Cyclo EGB (Cyclone+EGB)

GET EMISSION BELOW  
**30 mg/Nm<sup>3</sup>**

### APPLICATIONS

- Incineration Boilers
- Wood Based Boilers
- Wood Fired Boilers
- Mustard Husk Fired Boilers
- Spentwash Fired Boilers
- Chemical Recovery Boilers
- Husk Fired Boilers
- Agro Waste Fired Boiler
- ESP Upgradation



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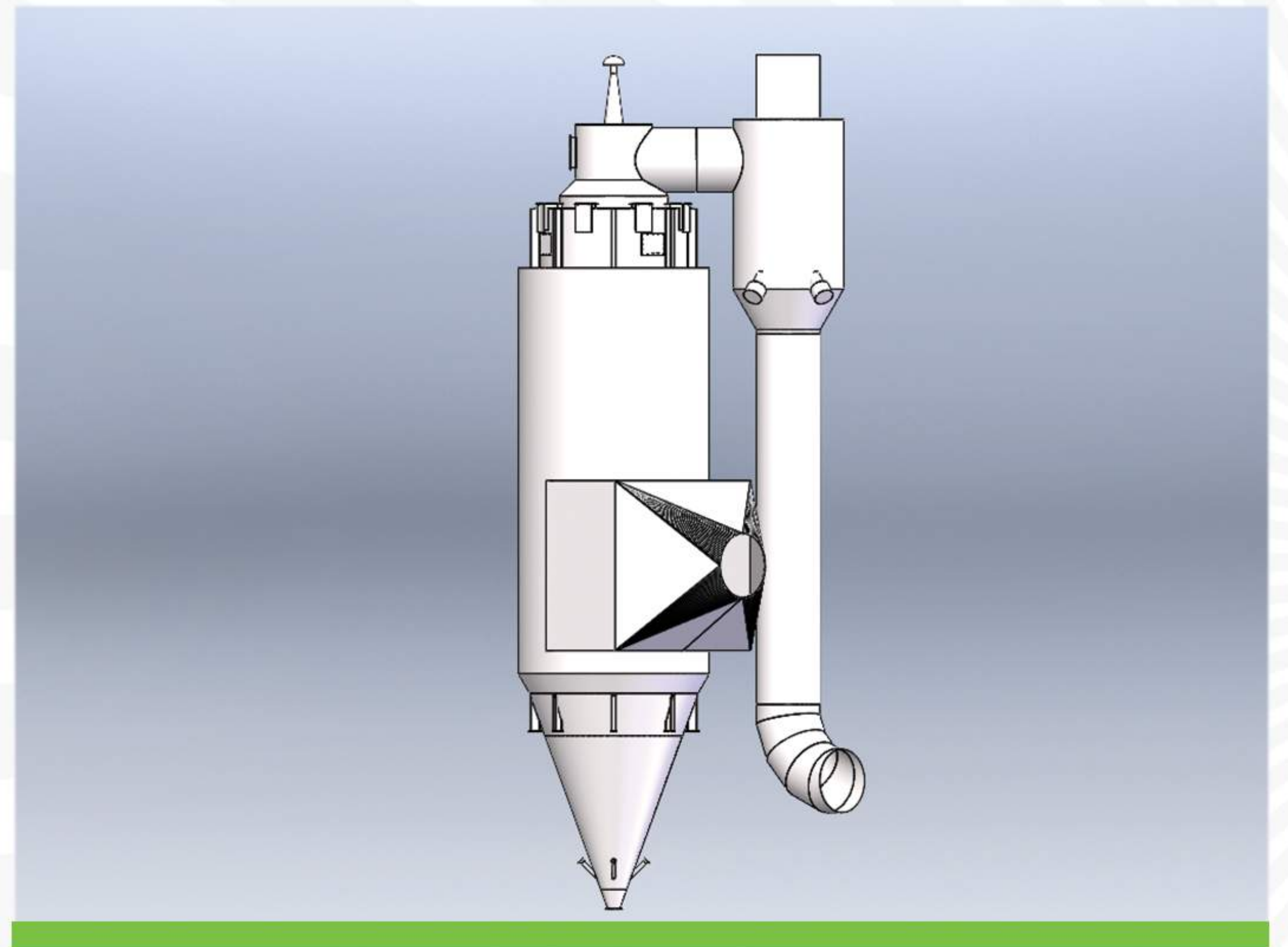
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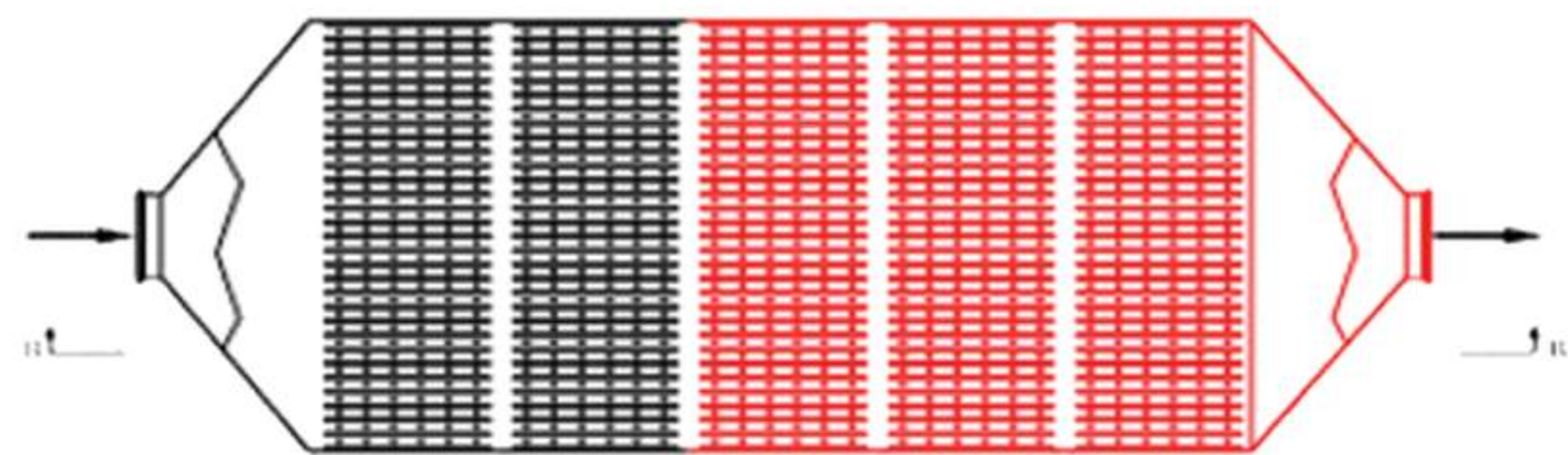
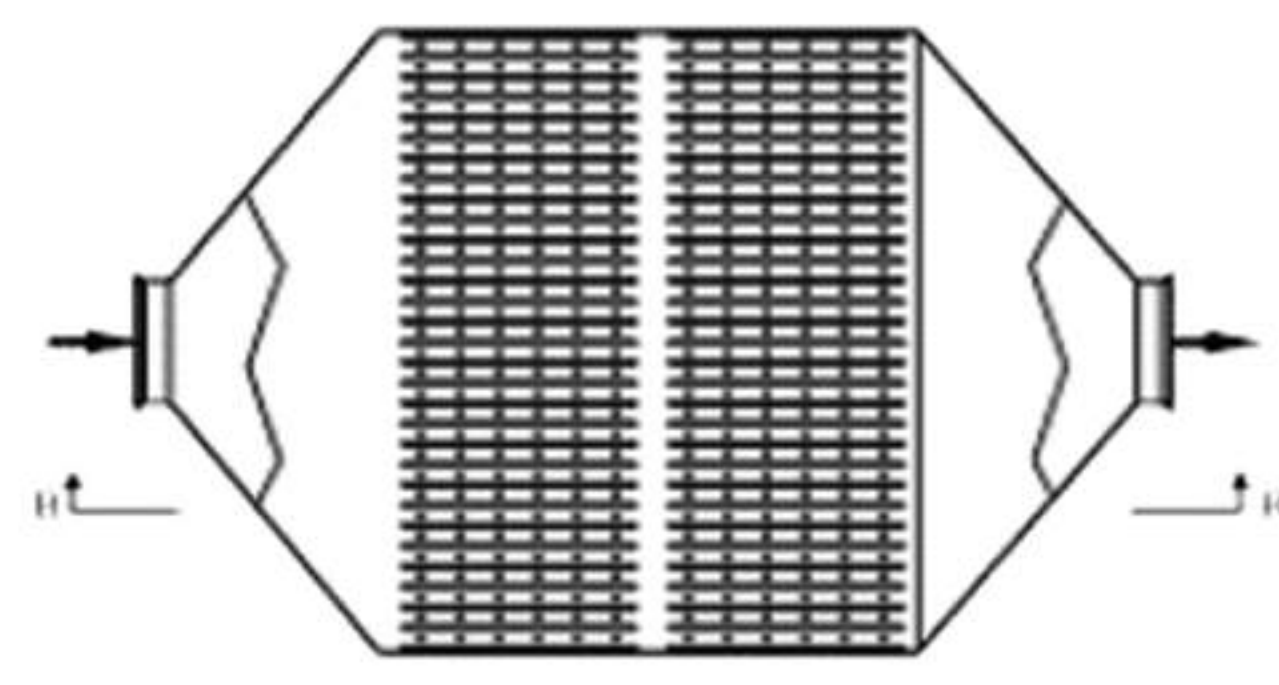
# MEPA (ESP+EGB)

## Maximum Efficiency Particulate Abatement

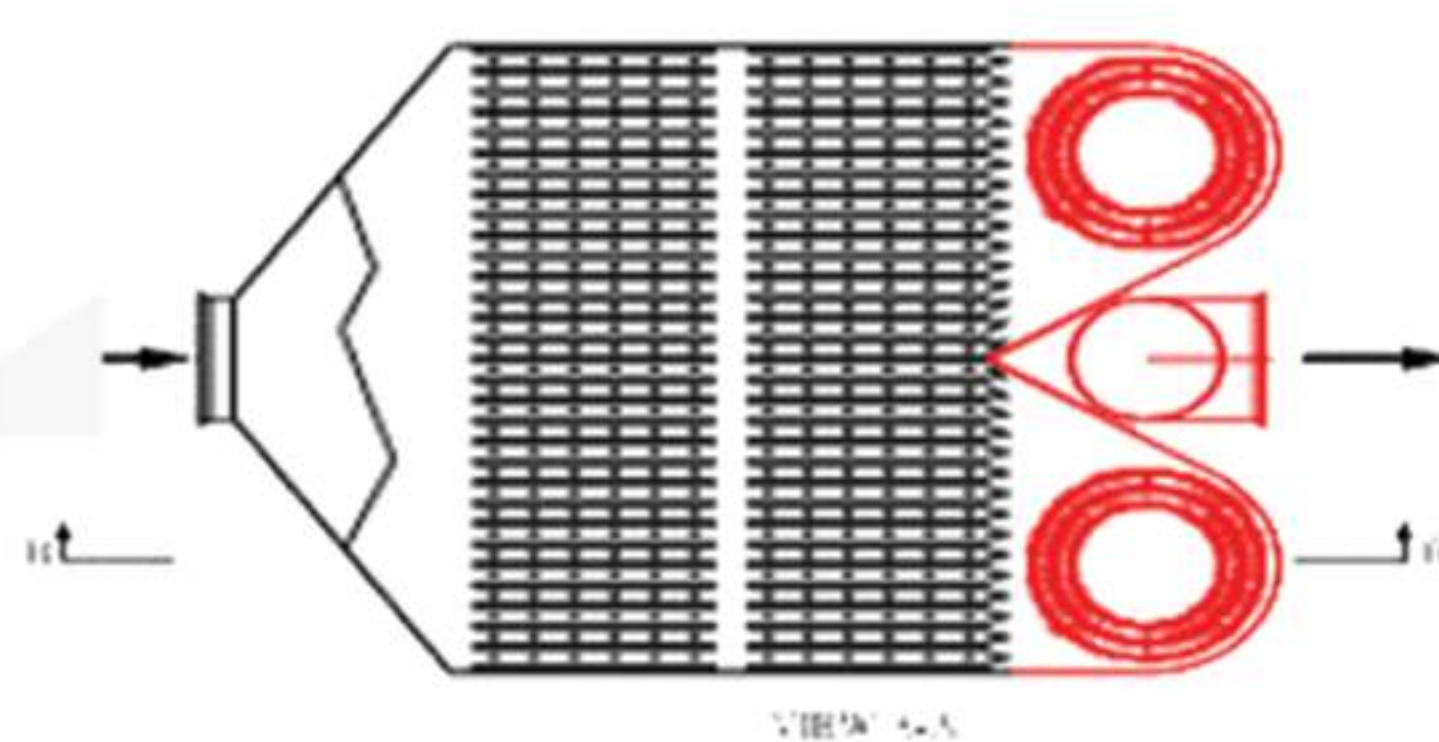


## Upgrade Your Existing ESP/Cyclone with EGB

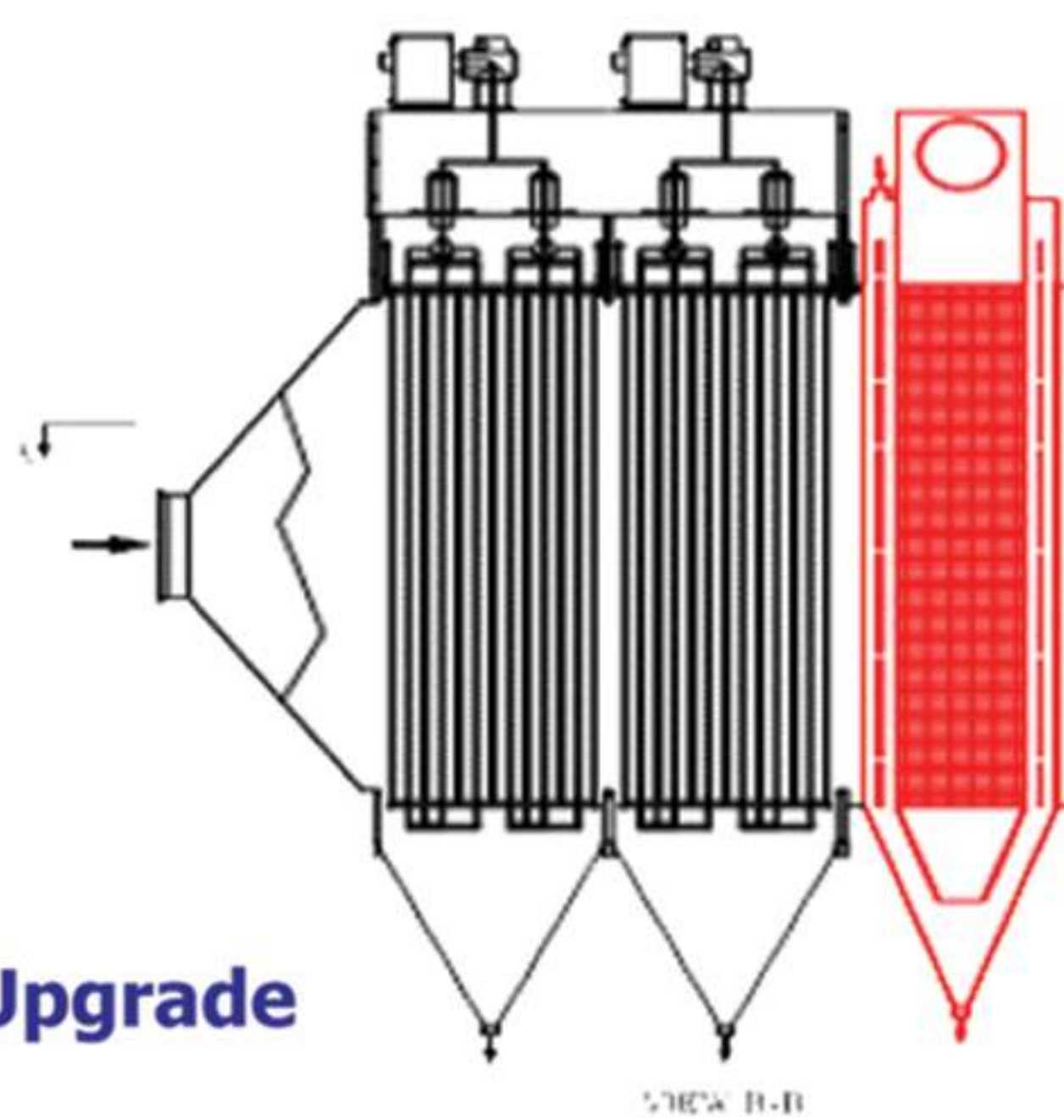
EGB can be integrated with Existing ESP/Cyclone to Capture Escaping Ultra-Fine Particulates



Option-1 : Conventional Upgradation of ESP



Option 2 : EGB Filter Upgrade



SMALLER FOOTPRINTS

## OUR USP

- ✓ Suitability with Agro Based Fuel Fired Boilers
- ✓ Enviropol Patented Technology for MEPA
- ✓ Collaboration with the US Innovator
- ✓ Worlds 1<sup>st</sup> Installation on Spent Wash Fired Boiler
- ✓ Manufacturing >95% within India
- ✓ Upgradability and Smaller foot print



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# FGD

## FLUE GAS DESULFURIZATION

**MOST WIDELY USED TECHNOLOGY FOR SOX CONTROL**

### MANUFACTURING RANGE

- ✓ Dry FGD
- ✓ Semi-Dry FGD
- ✓ Wet FGD (Lime/Caustic/Sea Water)

### ADVANTAGES

- ✓ High SOx Removal Efficiency (Over 95%)
- ✓ Multi-Pollutants Emission Control
- ✓ UpGradable To Meet Future Emission Norms
- ✓ Low Power Consumption
- ✓ Optimum Cost Of Operation



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# FLUE GAS DESULFURIZATION

Dry and semi-dry flue gas desulfurization equipment includes a range of technologies in which SO<sub>x</sub> reacts with limestone particles in a humid environment to form sulphite.

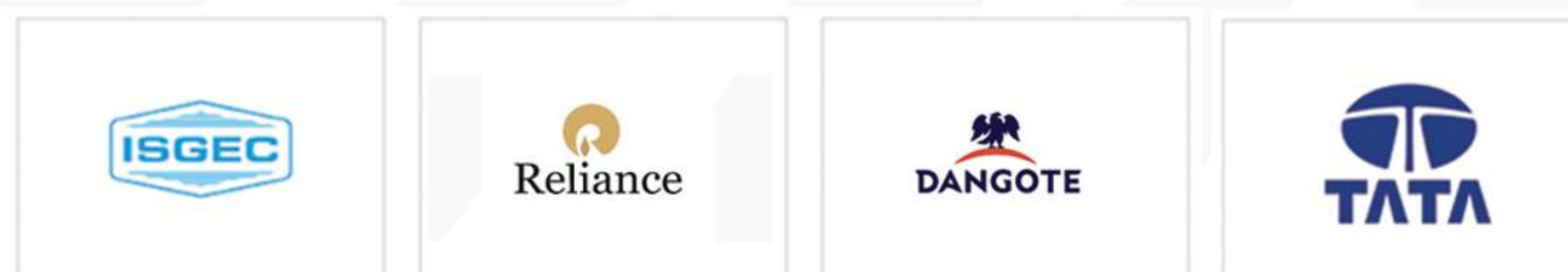
Broadly, dry and semi-dry FGD processes include furnace/duct sorbent injection using sodium/calcium-based reagent and the spray drier absorber (SDA) technology using slaked lime or limestone as reagent.



## OUR USP

- ✓ In collaboration with Internationally acclaimed provider
- ✓ Focus on CPP up to 100MW
- ✓ Project experience for dual alkali based FGD
- ✓ Experience of over 5+ Projects
- ✓ Plastic waste incineration low cost solution for emission control

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**THE MOST  
INNOVATIVE  
ENERGY SAVING  
PRODUCT OF 2021**

**Awarded By-**



Confederation of Indian Industry

# HYBRID BIOMASS DRYER

## ENVIRO-FRIENDLY ENERGY SOLUTION FOR CAPTIVE POWER PLANTS

The Mill Biomass is used as dry scrubbing agent in the pre-dust collector to absorb the dust particulates. The partially cleaned flue gas is then made to pass through a top entry Wet ESP which can handle the moist gases (unlike Conventional Dry ESP) as a polishing filter to bring down the emissions well below 30mg/Nm<sup>3</sup>.

During the process of pre-dust collection, the waste heat from the Boiler flue Gas is recovered to evaporate moisture from the Biomass thereby increasing the GCV of Biomass by over 20%. This increases the Boiler efficiency and save

*"Gaining While Greening"*

GET EMISSION BELOW  
**30 mg/Nm<sup>3</sup>**

### MANUFACTURING RANGE

- Hybrid Model-A : Biomass Dryer+ WESP
- Hybrid Model-B : Biomass Dryer + WSS

### APPLICATIONS

- Biomass Drying
- Cogen Power Plants



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# BIOMASS DRYER

## BIOMASS DRYING WITH WASTE HEAT RECOVERY FROM FLUE GAS

Particulars	Improvement (%)
Bagasse Moisture Reduction	20-27
Bagasse Saving	06-10
Excess Air Reduction	20-30
Effluent Gas Reduction	09-12
Increase in Burnt Bagasse GCV	18-24
Increase in Thermal efficiency	09-12
Reduction in CO Concentration	80-90
<b>Reduction in Particulate matter</b>	<b>90-95</b>
Reduction in Nox Concentration	20-25

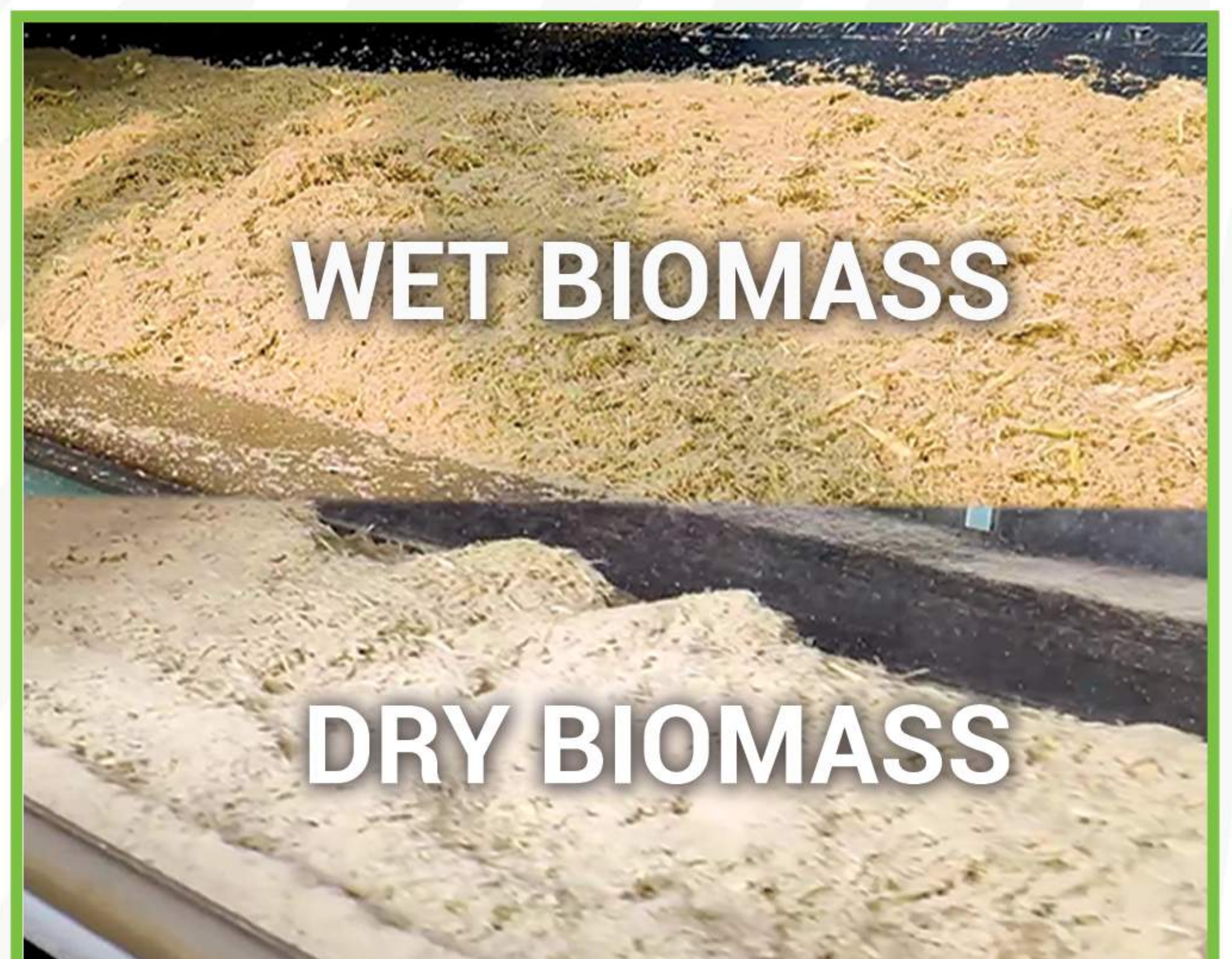


**Moisture  
Reduction of  
10-13 Units**

**ROI within  
200-280  
Working Days**

## ADVANTAGES

- Waste Heat Recovery
- Enhanced Steam Generation
- Improved Boiler Efficiency
- Simplified Fly Ash Management



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# FEW OF OUR CLIENT'S



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## OUR GLOBAL PRESENCE



.....& many more

## CONTACT US

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### MANUFACTURING WORKS

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ECOTECH EXTENSION-1  
GREATER NOIDA, 201306  
UTTAR PRADESH, INDIA

#### UNIT II

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FOUNDED  
IN 2003



TECHNOCRATS  
PROMOTED GROUP



TOTAL TEAM  
STRENGTH 150+



GLOBAL PRESENCE  
IN 25+ COUNTRIES



MORE THAN  
400+ INSTALLATION

