

# ENVIRO INTERNATIONAL CORPORATION

## AIR POLLUTION CONTROL SYSTEM ,VENTILATION SYSTEM AND DUST SUPPRESSION SYSTEM, PNEUMATIC CONVEYING SYSTEMS



Enviro International is a project based company with a prime interest in Air pollution Control Equipment, Dust Suppression System, Belt Conveyors and Material Handling systems, Pneumatic Conveying System, Ventilation Systems. Enviro International Corporation is promoted to provide one shop solution for Air Pollution and Air Ventilation System and Material Handling Systems. The use of these equipment is increasingly being extended to dedusting and conveying of material preparation plants in the various industry.

EIC processing a team of vast experience and sound technical base , emphasize need to evaluate the site properly and We do therefore thoroughly study and evaluate on technical parameters of the system being offered for checking up its suitability for site condition and subsequently put up all these analysis experience in to the drawing up the design plans and productions for the evolving of the product modeled on site condition , as a result successful operation and its optimum utilization as per site conditions is guaranteed, We always stress on basics for each and every project.

EIC products are based on the latest international standard method of design and quality. Company continuously innovate its designing and quality capability to meet the client requirement . It believe in assisting your company by providing committed, competent and dedicated professional services to your projects and your requirement of these equipment. EIC has team of experienced and highly skilled engineers, who has expertise in carry out international design standard norms to meet the specific requirement.



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## PRODUCT RANGE

### AIR POLLUTION CONTROL EQUIPMENT

#### PULSE JET BAG FILTER

We have supplied bag filter (dust collectors) on various application like Crusher and Screen house, bunker house, coal handling plant in Thermal Power Plant, Induction furnaces, banburry Mixture, various Furnaces, sponge iron plants, Rice mill, cement plants etc. We have so many installation of bag filters and few of them has range from 60000 to 1,00,000m<sup>3</sup>/hr cap. We have more than 100 bag filter installation power plants. We also take DE system including its ductings on turnkey basis.

In bag Filter, Dust Laden air enters the dust collector through the hopper or high –entry inlet housing section an internal baffle distributes the dirty air within, the housing ,so as to reduce air velocity and allow heavier particles drop into hopper, while lighter particle collects on the outside surface of the bags

For operation of bag filters, suction hoods shall be connected to suction take off points. These suction take off points shall be connected to the main ducting by branch ducting and the other end of main ducting shall culminate into bag filters. The outlet of bag filter to inlet duct of blower and the same will exhaust clean air to atmosphere vide a stack.

#### INSERTABLE /VENT BAG FILTER

Insertable Bag Filters are suitable for direct mounting for bin vent, belt transfer point, bag-dump, mixer ventilation applications etc. The dust laden air is drawn on to the rectangular filter pads where dust is retained on the outside of the fabric. The pad is cleaned by reverse compressed air pulse. The Insertable Bag Filter offered by us does not require any hopper and structural support, etc. The Insertable Bag Filter that we deal in helps easy discharge of dust on the bin, silo and conveyor etc. Cartridge/cassette type bag filter can also be offered for above application. Cartridge collectors use perforated metal cartridges that contain a pleated, nonwoven filtering media. The pleated design allows for a greater total filtering surface area than in a conventional bag of the same diameter,

### DUST SUPPRESSION SYSTEM

#### PLAIN WATER SYSTEM, DRY FOG SYSTEM SPRINKLING SYSTEM DRY FOG CANON

We offer Dust Suppression system for Stock Yard, Belt Conveyor line for power plant & other industries, Wagon Tippler , Belt transfer points, Reclaimer Hopper, Screen, crusher, etc.

We offer Plain Water system and the Dry Fog System also. Stock yard Sprinkling System etc - Sprinkling System is used for Sock Yard Area or Raw Material Storage Area.

#### FOG CANON FOR DUST SUPPRESSION SYSTEM,

Fog canon is widely used in India and overseas for suppression of flying dust on various application, It is a rugged and very efficient system. Unlike other types of dust suppression, it efficiency is very high. In some of applications only and only Fog canon is very successful, particularly when it is an open area.

Fog canon is normally mounted on a trolley and it can be moved from one location to other location as it is on wheels. It is namely used for suppression of the flying dust very efficiently from a distance and also covers a very wide area. It throws the mist at a distance of 30m, 50m, 70m,100m. It is widely used in irrigation and industrial purpose.

## VENTILATION AND COOLING SYSTEMS

We are leading manufacturer of various types of ventilation system. We have executed a no Ventilation Systems projects in power plants etc and these have already been running successfully. Ventilation system has been supplied to APSEB,RSEB Prakash Industries Ltd, Usha Martin etc and few more plants Thermal Power Plant Projects of 25MW to 660 MW cap..

### AIR WASHERS,

We are leading manufacturer and exporter of Air washers. . The products which come under this category are Evaporative Air Cooling- Single Skin and Evaporative Air Cooling- Double Skin.

We offer superior quality , Industrial Air Washer Unit that work on the principle of cooling the air by passing it over water-saturated pads, water evaporates and results in cooling of air,. The cool air is then directed into the ventilated area. Air Washer System with cellulose paper pads, , specially treated fluid media capable of absorbing and retaining water to provide the maximum cooling efficiencies. The cooling pad is cross-corrugated to maximize the mixing of air and water and eliminate water carryover.

Air Washer are available from 2000 m<sup>3</sup>/hr to 3,00,000 m<sup>3</sup>/hr capacity and can be supplied for various applications namely, MCC rooms, ventilation for works, tunnel ventilation, ventilation for basement, crusher house, exhaust fan system, ventilation system for complete thermal power station Etc.

### TUNNEL VENTILATION SYSTEM / DRY VENTILATION SYSTEM,

We are leading manufacturer of the equipment and have supplied a nos of dry ventilation system for tunnels to so many power plants. .

Exhaust Fan, Roof extractors, Axial fan , Fans for ventilation Systems are also being manufactured and supplied by us.

### TWO STAGE DIRECT / INDIRECT EVAPORATIVE COOLING,

We are leading manufacturer of the equipment, Two-stage evaporative coolers do not produce humidity levels as high as that produced by traditional single-stage evaporative coolers .

### EXHAUST FAN, ROOF EXTRACTORS, AXIAL FAN , FANS FOR VENTILATION SYSTEMS

### TURBO VENTILATORS

Rood extractors with no power or motorless turbo-ventilator is being supplied by us in SS/AL configuration. Axial fan / Motorized Rood extractors of various capacity is also being manufactured by us.

### INDUSTRIAL FAN

Centrifugal fan manufactured is from 500 m<sup>3</sup>/hr to 2,00,000 m<sup>3</sup>/hr, having pressure rating as high as 1200mm wg. Centrifugal Blowers are available in single inlet single width design with backward curve, forward curve, straight radial impeller for low, medium and high pressure applications,

High Volume Limit Load Blowers\*(SISW Type) / High Volume Limit Load Blowers\*(DIDW Type)  
Induced and Forced Draft Fans / Backward Curved Blades Fans.

### FUME EXHUAST SYSTEM,

Various types of fume exhaust is manufactured and supplied by us.

## PNEUMATIC CONVEYING SYSTEM

Pneumatic Conveying System is a widely used for transporting dry bulk material either by Vacuum or by Pressure of Air. Depending on the material to be conveyed, system is designed to carry the material to the final destination with the air stream.

Pneumatic Conveying System is basically quite simple and are eminently suitable for the transport of powdered and granular materials in factory, site and plant situations from one location to other location with the help of pressurized air. It normally comprises of compressed gas, usually air, a feed device, a conveying pipeline and a receiver to disengage the conveyed material and carrier gas. The system is totally enclosed. High, low or negative pressures can be used to convey materials.

Dense Phase System is used to push and convey the highly dense concentration of bulk solids materials effectively at a low constant speed inside the conveying pipe lines. Lean Phase system works on low air pressure, herein material is conveyed in suspension in the flowing air.

## FORCED DRAFT COOLER

We supply FD Cooler / Air Recuperator and is basically gas to air heat exchanger. It is used to cool the exhaust gases from the Kiln, boilers etc. The hot gas passes through vertical tubes and ambient air is blown over the tube in number of modules for cooling the gas.

## Typical Application of Bag Filter

- Material transfer points of belt conveyors in cements industry, power industry, sponge industry
- Coal Handling Plants, Crusher House, Screen house,
- Kiln exhaust, feeding and injection points , Bunker house
- Bag filter for Fly Ash Handling Plants
- Soda Ash, Lime, Clay, Calcium Oxide Industry
- Auto Industry and Wood Industry

## A few References

M/sJindal Steel & Power Ltd  
RSEB BARMER,  
MSEB, MAHAGENCO  
RSEB, SURATGARH,  
APGENCO, BGR,  
CM, Oman, Kesoram Industries Ltd  
Rayalseema Alkalies,,

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Representative – Arab countries, Nepal, Kolkata.

