

# ENVIRO INTERNATIONAL CORPORATION

## MANUFACTURER OF BAG FILTERS, DUST SUPPRESSION SYSTEMS, BELT CONVEYORS AND MATERIAL HANDLING SYSTEM, PNEUMATIC CONVEYING SYSTEMS, WATER TREATMENT PLANT

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.



**ENVIRO INTERNATIONAL CORPORATION**

ISO 9001-2008

Air & Materials handling Equipment

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**Air Pollution Control Equipment, Belt Conveyors and Materials Handlings Systems and Pneumatic Conveying Systems**

## AIR POLLUTION CONTROL EQUIPMENT AND VENTILATION SYSTEMS

### Pulse Jet Bag Filter

We supply bag filter (dust collectors) on various application like Crusher and Screen house, bunker house, coal handling plant in Thermal Power Plant, cement plants, Induction furnaces, banburry Mixture, various Furnaces, sponge iron plants, Rice mill, 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 in 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 is connected to inlet duct of blower and the same will exhaust clean air to atmosphere vide a stack.

### 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, its 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 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.

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.

### Roof Extractors, Turbo Ventilators And Axial Fan,



## BELT CONVEYORS AND MATERIAL HANDLING SYSTEMS

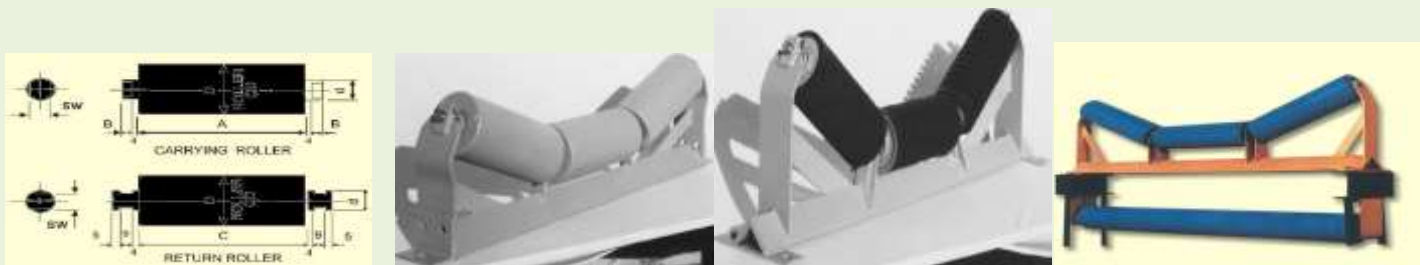
EIC belt conveyors are designed to suit the adverse working conditions and as per customers requirements. Featured with long working life, They require less maintenance and are user friendly.

We are offering these belt conveyors to clients in varied lengths and widths in order to meet varied industrial applications.

Belt conveyor is widely used in Industry as a low operating cost of conveying for multiple and wide range of applications. It is a very common equipment used in conveying of various type of materials from a short range to very long distances. It is very widely used in power plant, cement industry, Coal handling Plants, Mines, Rice husk Industry, food plants, chemical plants, building materials, ports, light industry and other industries as raw materials feeding system to plant, etc

It is very economical and very convenient to operate. It operates very smoothly and is very reliable system for conveying bulk materials and irregular material stuff.

Working temperature for belt conveyor is normally between  $-10^{\circ}\text{C}$  and  $+40^{\circ}\text{C}$  and the raw material temperature can not exceed  $70^{\circ}\text{C}$ . Heat-resistant rubber belt can transport the high-temperature materials ( below  $120^{\circ}\text{C}$  ).



Other material handling equipment

**Complete turnkey project of belt Conveyors**

**Coal Handling Plant**

**Raw Material Handling Systems**

**Material Handling system**

**Rice Husk Material Feeding system**

**Coal Conveying System**

**Complete crushing and screening system**

**Chain Conveyors, Screw Conveyors,**

**Bucket elevators,**

**Belt conveyor spares like Idlers, pulleys, belts, air slide etc**

**GRAIN SILOS**

We design, manufactures and supply , silos for grain storage, namely for rice, flour, or for any type of grain storage system. Hopper/Cone bottom Silos, Flat bottom silos, Corrugated Steel Silos. We can execute the silo on turnkey basis, we can collect the grain from stock yard and further convey it to silo for storage by means of various types of conveying system. We can also further supply the material conveying from the silo to end use point at your plant, where in grains will be processed further

## ASH HANDLING / PNEUMATIC CONVEYING SYSTEMS

Pneumatic conveying systems are basically quite simple and are eminently suitable for the transport of powdered and granular materials in factory site and plant situations. The system requirements are a source 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 and if it is required, the system can operate entirely without moving parts coming into contact with the conveyed material. High, low or negative pressures can be used to convey materials

Pneumatic conveying systems are particularly versatile. A very wide range of materials can be handled and they are totally enclosed by the system and pipeline. A hopper or silo in one location to another location some distance away. Considerable flexibility in both plant layout and operation are possible, such that multiple point feeding can be made into a common line, and a single line can be discharged into a number of receiving hoppers. Material flow rates can be controlled easily and monitored to continuously has complete automatic operation. A very wide range of materials can be handled and they are totally enclosed by the system and pipeline.

### Dense Phase Conveying System

The Dense Phase Conveying System is the most advanced, efficient and most reliable system to convey material with wide range of capacities of dry bulk solids up to 200 TPH, with terminal distances exceeding - 1,200 meters. This system includes weighing, batching, blending, lump breaking, storage, master control equipments etc. through Dense Phase Conveying System for bulk material handling in the plant.

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. Any type of material (heavy, abrasive or, fragile, crystalline or granular) can be conveyed without causing the degradation due to low velocity and less wear to the system components.

The low volume of air is utilized at the ash / transporting vessel to convey the material into the line at maximum density while the balance air quantity is added along the conveying line through coupling unit provided at starting on the pipeline to overcome the pipeline frictional losses thus pumping material at the highest obtainable efficiency. The Coupling Unit ensures a uniform gradient and helps to maintain the material at maximum density. These Coupling Unit also helps in minimizing the compressed air consumption and pipe abrasion.

### Lean Phase system

Lean Phase system works on low air pressure, herein material is conveyed in suspension in the flowing air. To keep the material in suspension in the pipeline it is necessary to maintain a minimum value of conveying line inlet air velocity that, for most materials, is of the order of 13–15 m/s

### **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.

### **WATER TREATMENT AND WATER RO SYSTEM,**

We supply Water treatment plant, RO System for industrial plant, and even for household drinking purpose