



Raj Deep  
**ENVIROCON**<sup>TM</sup>  
ISO 9001:2015 Certified Company



**TURN-KEY PROJECT SOLUTION PROVIDER**

ENGINEERING, DESIGN, MANUFACTURING & SUPPLY OF  
PNEUMATIC CONVEYING SYSTEM, AIR POLLUTION CONTROL  
SYSTEM EQUIPMENTS & PROCESS PLANT



**Raj Deep Envirocon LLP**

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# Turn Key Solution's

## Application

- ◉ Chilly Processing Plant
- ◉ Turmeric Processing Plant
- ◉ Flour/Besan/Rava/Starch
- ◉ Rice mill plant
- ◉ Pulses & beans processing plants
- ◉ Sugar Conveying system
- ◉ Milk Powder conveying system
- ◉ Gaur gum Plant
- ◉ Starch Conveying System

## Application

- ◉ Powder / Granules handling system.
- ◉ Storage
- ◉ Weighing & Batching
- ◉ Dust Extraction system

## Application

- ◉ Lime Conveying System
- ◉ Bulker unloading system
- ◉ Colomonite conveying system
- ◉ Pet coke conveying system
- ◉ Coal Dust / powder conveying system
- ◉ Carbon black conveying system
- ◉ Ash handling system
- ◉ Dust Extraction system

## Application

- ◉ Pigment powder handling system
- ◉ Talc powder conveying system
- ◉ Raw Material conveying system
- ◉ Dust Extraction System

## Food Processing Plant



## Polymer(Petrochemical) Industry



## Mineral Industry



## Paint Industry



### Application

- ◉ Bag Filter / ESP dust conveying system
- ◉ Dust Extraction System.

### Power & Steel Industry



### Application

- ◉ Bag Filter / Dust Extraction System for Cement Mill
  - Coal Mill
  - Raw Mill
  - Cement Dust
  - Clinker
  - Gypsum
  - Pond Ash
  - Slag Dust
  - Fly ash Dust
- ◉ Telescopic Chute And Other Material Handling Equipment's
- ◉ Vacuum Conveying System
- ◉ Pneumatic Conveying System

### Cement Industry



### Application

- ◉ Grain Silo Loading
- ◉ Grain Silo Unloading
- ◉ Grain Cleaning system
- ◉ Grain Milling System
- ◉ Flour handling System

### Distillery, Brewery & Ethanol Plants



## Formulation System:

Envirocon provide unique solution for Formulation plants. Formulation Plants require different solids, semi solids and liquids addition in precise quantity to make the batches.

- Each Solid / Liquid metering or weighing is fed to a common weigh hopper or to mixer/blender. The master batch is then sent to further processes or packaging.
- Total integrated system as the user requirements.
- All equipment's involved in the system are sized for its uses.
- Total system is operated by centralized programmed Panel with required instrumentation and Valves.



## Bag Filter/ Dust Collector:

Envirocon Dust Collector (Bag Filter) has a variety of Filtering (Product Separation) design

Envirocon complete line of Bag Filter offers an effective and efficient solution for cleaning of air from dust, generated by plant process, storage silo, receiving bin, mixer, dryer, Belt conveyor, Screen etc. Air with Dust can produce an unpleasant, even hazardous work environment.

## Features of Bag Filter / Dust Collector:

- Effective Design according to ACGIH
- Low Dust Emission ( $< 50\text{mg}/\text{m}^3$ )
- High Quality Filtration Equipment's.
- Trouble free Operation
- Robust construction
- Guaranteed Emission less than  $50\text{ mg}/\text{Nm}^3$  according to Application
- Optimum air-to-cloth (A/C) ratio
- Effective Design of Hoods & Ducting



## Jumbo Bag Unloading Station

Envirocon unique Design of Jumbo Bag Unloading Station, with integral automation for emptying the Bulk Bag. Jumbo Bag are used in industries like Food, Agricultural, Chemical, Pharmaceutical, polymer and other bulk material handling industries)

Jumbo bag unloading system is engineered to safely and effectively unload bulk/Jumbo bags

Jumbo bag unloading station can lift the bag load of 500 Kg -2000 Kg

### Jumbo bag Unloading System Includes

- Hoist & Monorail
- Massagers
- Glove Box
- Hopper
- Vent Filter (For Powder material)
- Structure
- Local Panel

Jumbo bag unloading station can lift the bag load of 500 Kg -2000 Kg



## Bag Dump Station

Envirocon Offers Bag Dump Station to overcome the problem of dusting during Solid Unloading from Bag.

Envirocon Bag Dumping Station for unloading 25kg to 100kg bags manually. Its **in-built dust collection system** to capture airborne particles released during the dumping process, promoting a cleaner and safer working environment in Plant.

Bag dump stations are commonly used in industries such as **food processing, pharmaceuticals, chemicals, and agriculture**, where bulk materials are handled in powder or granular form and require controlled and efficient transfer from bags to processing equipment.

### Features:

- Totally Integrated Design with Dust Collection & Exhauster.
- Minimum Dust Generation
- High Efficiency Filtration System.
- MOC: MS / SS 304 / SS 316
- Special Design to serve the application.



## Screw Conveyor:

Envirocon offer Design, Manufacture & Installation of screw conveyors.

Screw conveyors are usually designed to suit specific Applications as per customer requirement. Materials Of construction are selected to suit the application (MS / SS304 / SS 316)

Screw conveyor of size 50mm to 800mm and length maximum up to 30mtr with hanger bearing. Screw conveyor Of 'U' type or 'O' type.

Application as conveyor designs as Conveyor, Feeder & Mixer. Twin screw and paddle versions are also available.



## Rotary Airlock Valve (RAV):

Envirocon offer state-of-the-art Rotary Airlock Valve application discharge duty, feeder pneumatic metering device.

### Salient Features :

- Precision Construction (Casted Body).
- 8-10 Vane Rotor (with adjustable tips / Beveled tips) Sealed outboard bearings.
- Optional body venting & purging packing glands. Self-lubricating bearing.
- Fall through type / Blow through type.
- Pallet type Rotary Airlock Valves designed for handling Granules Material to avoid jamming & breakage.
- Powder Design for handling powder.
- High Temperature Application.
- MOC: CI / CS / HRS / SS304 / SS316
- Provided with line injector & venting box on request.



Diameter (MM)	Lt/Rev	Motor HP	Empty Weight In Kg	Flange to Flange Height	Width (AXB) Overall	Flange Opening
150	3.4	0.5	100	280	520 X 530	Round
200	5.4	0.5	125	325	575 X 580	Round
250	10.4	1.0	200	400	650 X 580	Round
300	18	1.5	250	450	720 X 760	Round
350	28	2.0	400	520	770 X 900	Round
400	48	3.0	550	570	880 X 880	Round
450	62	3.0	650	640	1010 X 750	Round

Further size can be provided as per requirement

Rotor RPM < = 20rpm. Filling efficiency = 50% to 80%

## Centrifugal Fan:

- Creates Required Suction.
- Highly Efficient.
- Backward curved impeller.
- Variety of Construction Material
- Air Volume Range of 1000m<sup>3</sup>/hr - 200000m<sup>3</sup>/hr.



## Other Equipment's

### Cyclone



### Hopper



### Pug Mill



### Hammer Mill



### Lump Breaker



### Scrubber



## Other Equipment's

### Weighing & Batching



### Control Panel



### Blender



### Telescopic Chute



### Silo





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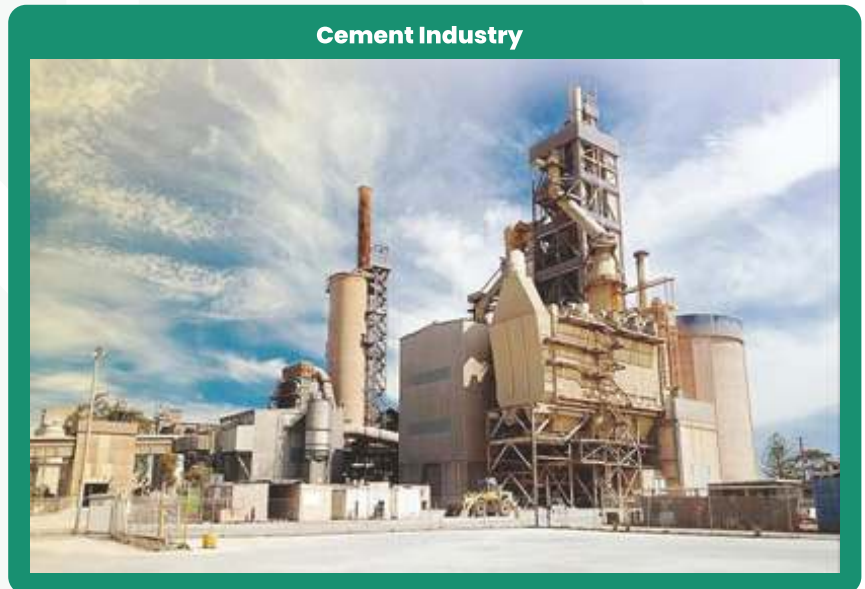
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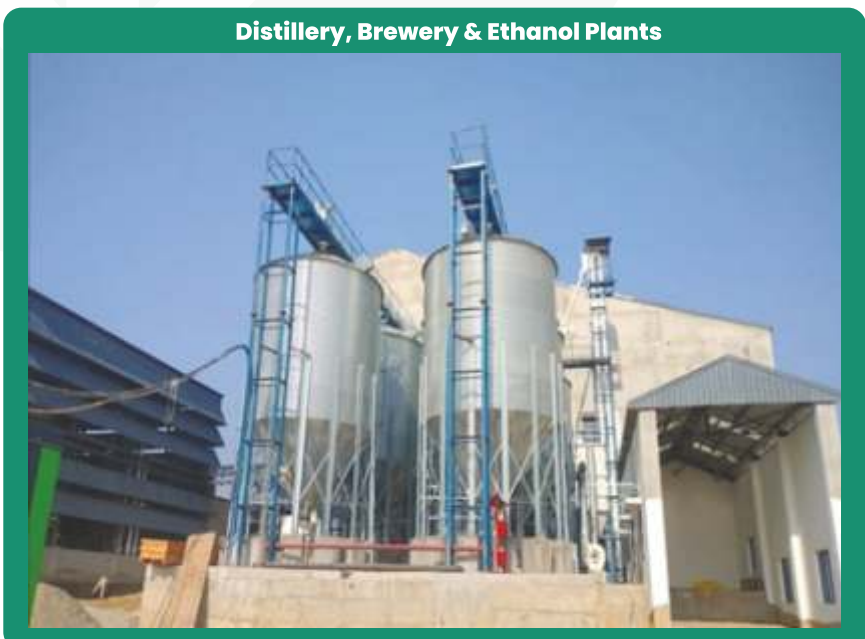
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## Our Association



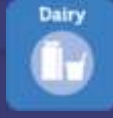
## Industries We Serve



Food Processing



Chemical



Dairy



Cement



Petrochemical



Brewery & Distillery



Agro & Fertilizer



Paint



Pharmaceuticals



Steel & Power

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