Pulse Jet Bag houses
Bag house Accessories
Dust collection systems
Cyclones
Rotary air lock valves
Centrifugal fans
Pneumatic conveying system
Customized systems

Revamping work for all types of
air pollution equipments
Screw conveyors
Packing & weighing machines
Vacuum equipments
Job Loading trolley

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**PROVAC SYSTEMS** offers turnkey project in Environmental control & Solid handling systems. The well-equipped manufacturing facility with stringent quality norms ensures that, products are delivered to meet customer expectations at competitive price. Our experience lies in the following equipments and systems.

**PULSE JECT BAG HOUSE**

As the emission level getting stringent, **PROVAC SYSTEMS** offers efficient bag house, which has many advantages:

- Our Bag houses are designed to meet emission level requirement as low as 5 mg/Nm³.
- Low Pressure drop
- Bag houses are designed based on the space availability
- Low compressed air consumption
- Options of Bag length
- Filter bags available up to temperature of 250 Deg C
- Efficient discharge mechanism
- Variety of design (cylindrical, rectangular, cartridge type)

**BAG HOUSE ACCESSORIES**

**PROVAC SYSTEMS** supplies following accessories for existing bag house:

- Rotary Airlock valves
- Slide Gate Valves
- Sequential timer to control pressure drop & reduce the compressed air consumption
- Cages
- Venturis
- Vibrators- Electrical Pneumatic operated for easy discharge and to avoid product build up in the bag house.
- Pulse Jet Solenoid Valves
- Filter bags : polyester Polypropylene, acrylic, Nomex.
- Rayton, Teflon, Hybrid version, also we offer different finish on filter bags like glazed, calendared, egg shell, antistatic.
- Teflon, anti-adhesive etc. depend up on application requirement.

**CYCLONES**

Cyclones are very effective as pre collectors cyclones can achieve maximum efficiency at low pressure drops. They are easy to install and maintenance free.
**ROTARY AIR LOCK VALVES**

PVS offers a wide range of RAVs depending on material characteristics. Capacity our RAVs have the following features:

- The capacity varies between 50 Kg/hr to 50000 Kg/hr depending on product characteristics.
- Easy access to internal components.
- Control flow dry solid metering, discharging, operating under negative or positive pressure differentials.
- Have very close operating clearance for optimum efficiency.
- Size ranging from 10mm to 1000mm.
- Available in various materials of construction such as Cast Iron/Mild Steel/ SS304/SS316L/Aluminum.
- Various types such as Drop through/ Blow through.
- Quick clean RAVs such as open end rotor, close end rotor, reduced capacity rotor, shallow pocket rotor, Extra vanes rotor.
- Sturdy design.

**Centrifugal Fans**

PES offers sturdy and heavy duty construction fans. Various designs for Air handling as well as dust handling. Air pressure up to 1200 mm wc. Performance testing as per IS and BS. Various applications such as pneumatic conveying fans; ventilation fans, dryer ID/FD fans, Boiler ID/FD fans, Dust extraction fans, Hot air application fans, material handling and silo fans.

**Pneumatic Conveying System**

Our experience has given us knowledge in conveying different kinds of materials and also designing custom built equipments.

Pneumatic Conveying System is a method of conveying powdered material such as powder & granules of size from few microns to 25mm. PES offers Dilute phase conveying systems.

Dilute phase conveying system uses low pressure air at pressure less than 1 bar in case of pressure conveying and ~5000 mm in case of vacuum conveying which is generated by positive displacement type roots blower or by centrifugal blower.
SCREW CONVEYORS

The Screw Conveyor has a constant volumetric capacity according to speed. It may be exposed to a head of material and by having a correctly designed flight and with variation in the speed can be used to control and feed equipment at a uniform metered rate down the process stream, eliminating surges in the process. In many situations it is the only device that can be used as a feeder.

A primary advantage is the number of feed inlets and discharge openings that can be provided.

Long lengths may be achieved by the use of hanger bearings at intervals, however we prefer where possible to engineer these bearings out due to the maintenance requirements. A full range of sizes for capacities from a few kg per hour to 20*0 T /hr.

PRODUCT APPLICATION :

Ideal for conveying and feeding Grain, Coffee beans, Flour, Cement, Gypsum,

Coal Salt, Sawdust, Woodchips etc.

Full enclosed and adaptable to suit nearly all applications.

Screw conveyors are used for powder materials, with low powder coats and a minimum powder emission.

They can convey materials both on horizontal and high inclination, up to vertical conveyance.

The output of screw conveyors varies from few KGS upto 200 T / h.

They are tubular or u through, as per the requirement.

PACKING & WEIGHING MACHINES

Microprocessor Based Load Cell Type Packing Machines suitable for filling of cement / sand / fertilizers / chemicals and allied dry products. The packing machines are designed specifically for continuous online operations. The fully automatic filling and weighing machines have digital display and is load cell-based machine. Microprocessor Based Load Cell Type Packing Machines. The packing machines are designed specifically for continuous online operations. The fully automatic filling and weighing machine has digital display and is load cell-based machine.

These machines are suitable for valve type bags / open mouth type bags.

FEATURES

Fully Auto filling & weighing low power consumption.
Negligible spillage to avoid wastage thus, resulting in net saving and keeping packing cleans small & com machine rugged & reliable.
Ease of operation Designed & engineered for continuous on line operation.

PES ALSO OFFERS

Heat Exchanger, Condensers Job loading trolley (Capacity various from 5 ton to 400 MT),
Door sliding trolley, Pressure vessels.

PROVAC SYSTEMS

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