Established in the year 1985, Rohan Engineering Enterprise have consistently gained importance in engineering as its our core business apart from pollution control equipments manufacturing. Rigorous and regular in-house testing ensures that every product manufactured meets the highest quality standards. Our vision is to provide best sampling solutions with latest techno economical and more proven designs as per worlds approved standards.

The expertise of our R & D department combined with our experience in engineering services cater to selection of best possible sampling medium. At REE we offer sampling solutions from an economic and process engineering point of view.

The basic purpose of sampling is to collect a manageable mass of material which is representative of the total mass of material from which it was collected. This manageable mass of material, called a "sample", is subject to certain preparation procedures, which render it suitable for either physical testing, or laboratory analysis.

Proper sampling and sample preparation is critical for accurate analysis. There are two criteria that must be followed when sampling.

1. Ensure that the sample is a true representative of the bulk material.

2. Ensure that the sample does not undergo any chemical or physical changes after completion of the sampling procedure and during the storage prior to analysis. A totally homogeneous material will require the collection of only a single sample in order to determine its characteristics accurately, whereas a lumpy heterogeneous material will require the collection of many small samples, or increments, which, when combined, will represent the total mass, or lot, with an acceptable degree of accuracy.

It is of fundamental importance that all particles in the lot have the same probability of being included in the final sample. This is one of the "golden rules" of sampling.
belt end samplers

Provides a contemporary sample from a moving conveyor belt via conical sweeping motion in the direction of product flow
- Various sample volumes available
- Interlocked inspection doors
- Fro Motion of the collection bucket just beneath of discharge drum.

1. It will be installed beside the vertical chute.
2. For sampling, the bucket will be forwarding into the continuous flow of coal inside the chute.
3. It will then retract to its original position after filling the coal.
4. As soon as it comes to its original position, the bottom-discharging unit will activate & the collected coal will be discharged into another chute, which will carry it to the bottom directly into the sampling boxes.

gravity chute samplers

Industrial samplers for chutes which can sample free flowing materials from a dilute or dense phase or from a pneumatic line suitable for granules, powders and pellets. Several different designs based on the configuration of your chute.

sloped gravity chute

An industrial cross cut sampler for inclined spouts, which can sample free flowing materials, including granules, powders and pellets. Design requires very little space and collects representative samples from sloped gravity chute areas. When activated, a sample cutter pivots through the product stream, sweeping a complete 360-degree arc, collecting a true cross cut sample. Sample cutter is parked away from the stream of material and is sealed when not sampling. Standard construction is carbon steel. Other construction materials including stainless steel are available as required by the application.
screw type samplers

Such samplers are designed for sample extraction of dry non-sticky powdered materials out of free flowing materials from screw conveyor. It takes a sample when a solenoid-controlled air cylinder OR through a small gear box motor drive opens a sliding gate on the sampler, then closes the gate.

cross belt sampler

The sampler is a large round scoop which rotates one revolution per cycle perpendicular to the coal flow. It cuts a swath through the coal and throws a sample into a chute. The coal sample is taken via the chute to the analysis equipment. The high inertia scoop must be accelerated to full speed within 90 degrees rotation to insure it will have enough power to cut through the coal as it travels along the conveyor belt. The scoop must be stopped within approximately 30 degrees rotation after it has passed through the coal. The cycle rate can vary from one every few minutes to three cycles per minute. The sample scoop rotation speed is determined by the conveyor belt speed. On high-speed narrow belts, the scoop rotation speed gets very high, requiring quick actuation, and short accel/decel times.

automatic collection cabinets / bottle sampler

An automatic sample collection system for receiving and storing multiple samples. Excellent system for acquiring history samples. Designed for virtually unattended service. An optional adjustable counter (or timer) is pre-set to determine the number of samples (or duration) per container. When the count or time is completed, the system motor automatically positions the sealed container for the next filling cycle. Controller includes an over-ride feature which allows manual operation if desired. Container size, type and quantity can be varied suitable to application.
pni for sampling system

Sampling Station Overview

Sampler-1
Cutter Stuck-Up
Next Cut: 0 Sec

Sampler-2
Running
Next Cut: 0 Sec

Sample Crusher
Running

Belt Conveyor
Running (Feed)

System Status
Auto Mode Selected
System Sampling Purging: 0 Sec

Sample Divider
Running
Next Op: 0 Sec

Screw Conveyor
Running

Bottle Collector
Ready
Next Op - 0 : 0 Min
Bottle Count: 0

Alarm Ack
Go to Alarm

Slide Gate
Open (RC1)

RFB1
RFB2

Emergency Stop
Date: 21-12-2010

TO WHOM IT MAY CONCERN

This is to certify that Auto Coal Sampler supplied by M/s ROHAN ENGINEERING ENTERPRISE was commissioned in October, 2008. The system is working satisfactorily at Coal Handling Plant, DSP, till date.

[Signature]
Asst. General Manager

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