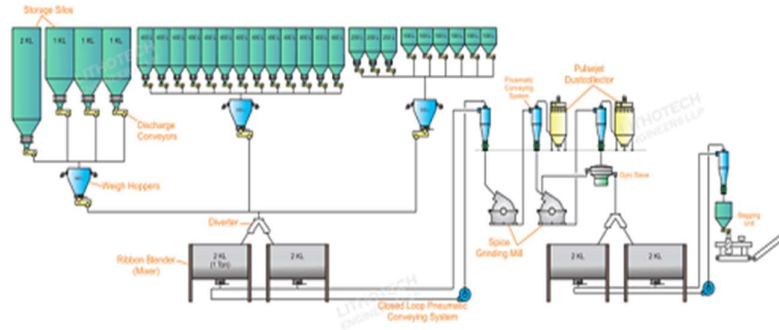


Batching System

Batching system is used to make a mixture of multiple ingredients according to pre-defined proportions.



A Sample Process flow of the system

Silo of 1 Ton (1 unit)

This Silo would be mounted on the load cell and would indicate the weight of the material filled in it. A complete batch including different ingredients would be made here manually by checking the weight of each item while filling.

Vibratory Feeder (1 unit)

This Feeder would be placed each at the bottom of the Silo to feed the material in the Z Type Elevator.

Z-Type Elevator

This would carry the material from the discharge of the Vibratory feeder and will convey it to the Mixer via the Diverter.

Y – Diverter

This would be mounted at the outlet of Z Elevator. It would be pneumatically operated by a manual solenoid valve and would alternately feed the 2 Mixers

Mixer 750 Kg (Twin)

This would thoroughly mix the Ingredients received from the weigh hopper. It has a 10HP main motor Mixer. The discharge valve below it is of Flap type operated by pneumatic cylinders, which while in closed condition doesn't allow any material to get accumulated over it.

Collection Hopper (1 Ton)

This would be mounted below the 2 mixers and would take the discharge from both of the mixers

Screw Conveyor (1 unit)

This would convey the material from the outlet of the Collection Hopper and would feed at the inlet of the Bagging Station.

Bagging Station (1 Unit)

The bags of 50 Kg each would be filled here it consists of two outlets for each where the material would come alternately. While one bag is getting filled in the 1st outlet, the 2nd would be stopped and will be replaced with a new bag manually. The Weight scale is placed below the two outlets which would automatically weigh 50 Kg and then switch the discharge to the other outlet.