

INAGURATION OF IICPT'S FIRST MOBILE GRANULE CONVEYOR

In India, Most of the grain mills are using sun/yard drying method for drying of grains. These mills require man power to transport the grains from drying yard to mill house after and before drying. It is laborious work and human fatigue also. The losses during the transport will be very high, lack of hygiene and the workers get health hazards due to the dust. If sudden rain comes it is very difficult and tuff task to collect and transport the grain from yard to storage/mill house.

At present, available material handling systems in rice mill industry are Bucket elevators, Belt conveyors, screw conveyors, Wheel barrows, Hand and power operated trucks, Tractors and trailers. Drawbacks of the existing systems are higher percentage of wastage/Broken, dusty environment, Spillage, huge construction set up and no mobility. To solve this problem, pneumatic grain pump has been developed at IICPT.



Features:

- Conveys 2.5 tonnes of paddy and 3.8 tonnes of lintels vertically up to 30 feet lift per hour
- No significant pressure reduction was observed while conveying the grains horizontally up to 150 feet

- The power consumption of the grain pump was 4 kilowatts per hour and one semi skilled person is required for operating the pump
- The operating cost of the grain pump including labour cost will be the Rs 550/day (8 hrs)
- Can be used to convey products such as rice, paddy, sago and pulses
- Mobile and can be used in different locations

Several industries have show keen interest for this technology. Secretary (MoFPI), Shri. Ranglal Jamunda inaugurated the first module and the technology was transferred to K.S. Rice Tech Industry, Chennai.