FOAR AGGREGATE COLD FEED BINS (Towable Unit)

Feed Bins
FOAR's feeder bins can stock 20-25 tons of cold aggregate each. Cold feed bins are fabricated from quality steel. Each bin top and mid-section is reinforced for added rigidity. The bottom of the bin is designed with a tapered opening to minimize bridging. Specially designed adjustable rubber sidings are provided to prevent leakage from the bin bottom to the belt surface. Adjustment clam shell gates allows metering of material from the bins.

The sand bin(s) are provided with electromechanical vibrator for ease of material flow from bin gate.

Feeder Belt
Each feeder belt has multiple ply rated belting. Rollers are made from 100 mm diameter tubes. Feeder belts are to be driven by electric motor, with shaft mounted reducers. The head shaft pulley of feeder belt is self centering, herringbone lagged. The tail shaft wing pulley is self centering. Includes heavy duty head shaft and tail shaft bearings of high quality.

Feeders Drive
Each feeder is driven by independent high efficiency AC geared motor with static inverter speed controller. The drive is compact, maintenance free, and has a 20:1 speed ratio with 99% accuracy during normal operation ensuring good control over quantity fed to collecting conveyor and dryer.

Collecting Conveyor
Integral collecting conveyor with “S” bend extension to deliver directly to the dryer. The extension folds back for higher mobility. The collecting conveyor has multiple ply rated belting which is supported CEMA B/C troughing rollers placed on 20-35 degree angles.

The conveyor includes three to six meters of conveyor extension beyond the bins. Furthermore, the head pulley is self centering, with heavy duty bearings. The tail pulley is wing type and self-cleaning. The belt is driven by a suitably sized electric motor with a shaft mounted reducer gear box.

Frame
Bins and conveyors are supported on a heavy duty wide flange frame and braced for optimum rigidity to ensure smooth travel and to be able to sustain the maximum possible load in operation.

Braced folding legs and sub frames are provided to support the bin in static position.

Travel Gear
The entire unit's bed frame structure is supported on 125 mm Φ axles with suitable tires, air breaks, 50 mm Φ king pin, rear lighting and mud flaps.

Loading Ramp Steel Walling
Steel structure ramp walling of suitable size and cross section can be provided as optional extras for quick installation of loading ramp which can be dismantled at the end of operation, shifted to the next site for reuse saving heavy wasteful investment on building concrete walls which are otherwise abandoned at every site.