

SPECIFICATIONS OF BULK MIX DELIVERY SYSTEM - SITE DOPED

Pre-Mix Bin : Vertical Rectangular Bin to bin to be fabricated from SS 304 4 mm thick plates. The bottom of the Bin will be conical and the outlet will match the inlet of pre-mix pump. The bin will be completed with inlet nozzle, Manhole at the top and support legs for mounting.

AN. Bin : Vertical Rectangular Bin to bin to be fabricated from SS 304 4 mm thick plates. The bottom of the Bin will be conical and the outlet will be welded to inclined Auger. The bin will be completed with sliding Manhole at the top and support legs for mounting.

GA Bin : Vertical Rectangular Bin to be fabricated from SS 304 3 mm thick plates. The bottom of the Bin will be flat and the outlet will have valve with strainer & connected to the inlet of process pump. The bin will be completed with all necessary nozzle, Level indicator, Vacuum Relief valve etc.

Water Bin : Vertical Rectangular Bin to bin to be fabricated from SS 304 3 mm thick plates. The bottom of the Bin will be flat and the outlet will have valve with strainer & connected to the inlet of process pump. The bin will be completed with all necessary nozzle, Level indicator, Vacuum Relief valve etc.

Air Receiver : Horizontal, Cylindrical Dished Ends Tank to be fabricated from IS 226 quality plates. The shell will be from 3 mm & the ends will be from 4 mm thick plates. The tank will be completed with all necessary Nozzle, Drain, Vent & Legs support.

Hose Reel : To be fabricated from IS 2062/SS 304 quality materials. The reel will be completed with Drive Arrangement, Guide Roller with Cylinder and will accommodate 40-50 Mtrs. of 2" Flexible Hose.

Continuous Mixer : To be fabricated from SS 304 2 mm thick sheet. It will be U in shape with adjustable blades inside. The lid will be necessary bolted and the inlet will be connected to An Auger and the outlet will be at the top of the Product Hopper.

Static Mixer : To be fabricated from 4" NB Sch 10 Pipe with flanges and completed with Pitched baffle inside and GA injection nozzle.

Product Hopper : It will rectangular in shape with bottom conical and to be fabricated from SS 304 2 mm thick sheet. The outlet will match the inlet of Product Delivery Hopper.

Process Pumps :

- a) WMAA 601- Pre-Mix Pump. /
- b) WMAA 602- Product Pump. / All Make Roto Pump
- c) RDA 472- GA Pump. /
- d) RDA 474 - Lubrication Pump.(Water Pump). /

Hydraulic Systems :

- a) **Hydraulic Oil Tank** : 600 Ltrs capacity Rectangular tank to be fabricated from IS 226 4 mm thick plates. It will be completed with Filler Breather cum pouring strainer, Level Indicator with Thermometer, Return Line Filter, Outlet Nozzle with Suction Strainer And Gate Valve.
- b) **Hydraulic Pump** : Parker Commercial Make Fixed Displacement Gear Pump.
- c) **Hydraulic Motor**: Danfoss make Low Speed High Torque Hydraulic Motor - 8 Nos.
- d) **Control Valve** : Danfoss make Proportional Valve Bank – 3+5 Set.
- e) **System Relief Valve**: Yuken make Solenoid Operated Relief valve.
- f) **Pipe /Pipe fittings/ Flexible Hoses& Pressure Gauge** : Std. Reputed make.

Instrumentation :

- a) Flow Star make 2Nos. in line Acrylic Body Rota Meter for GA & Water.
- b) Diaphragm Pressure Gauge for Product Pump.
- c) Digital RPM Indicator with Proximity Sensor- 3 Set.
- d) Weight Indicator with Proximity Sensor - 1 Set.

Safety Features :

- a) Spark Arrestor to be fitted on Vehicle Exhaust.
- b) Body Earthing Chain at Rear & Front of the vehicle.
- c) High pressure Trip for Product Pump.
- d) Temperature Controller For Product Pump.