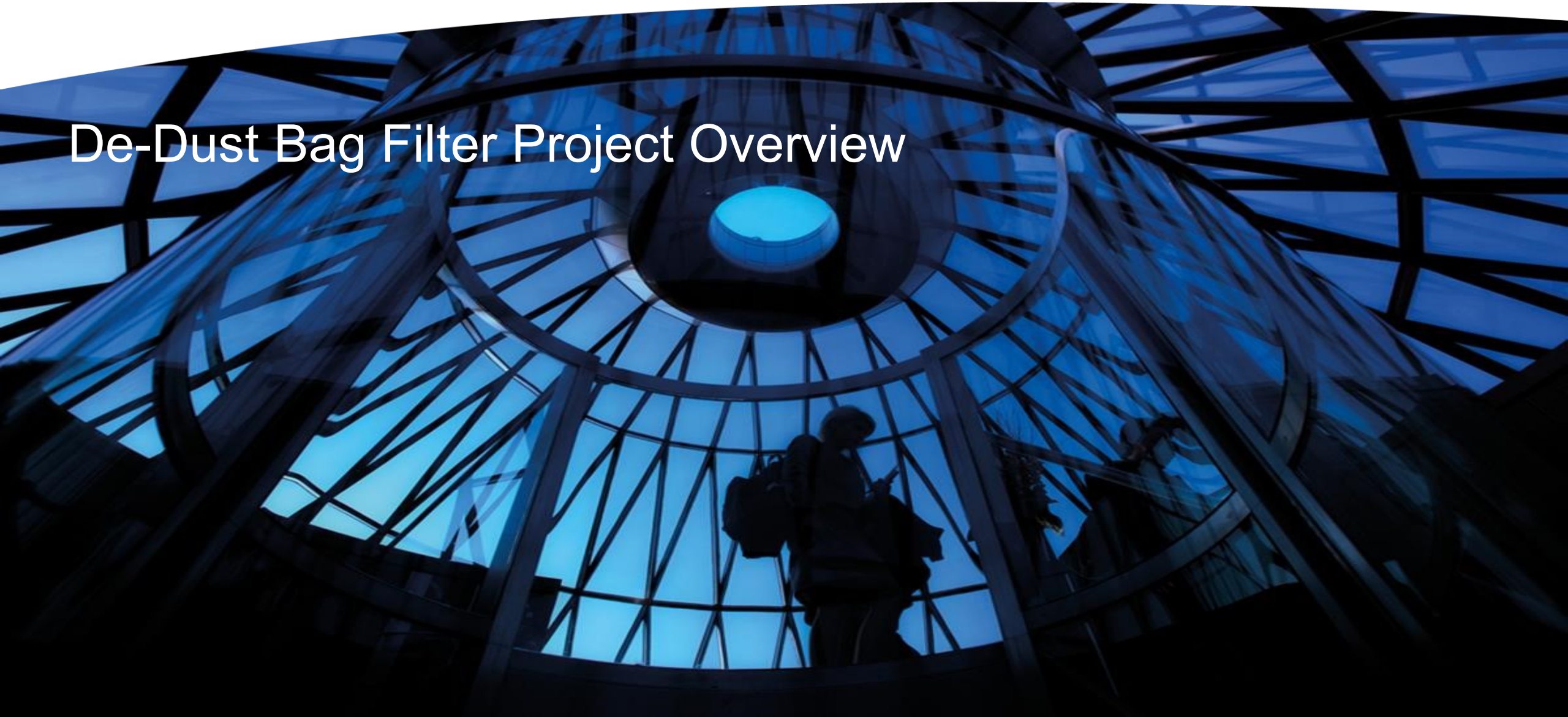


De-Dust Bag Filter Project Overview



Project Description and Scope



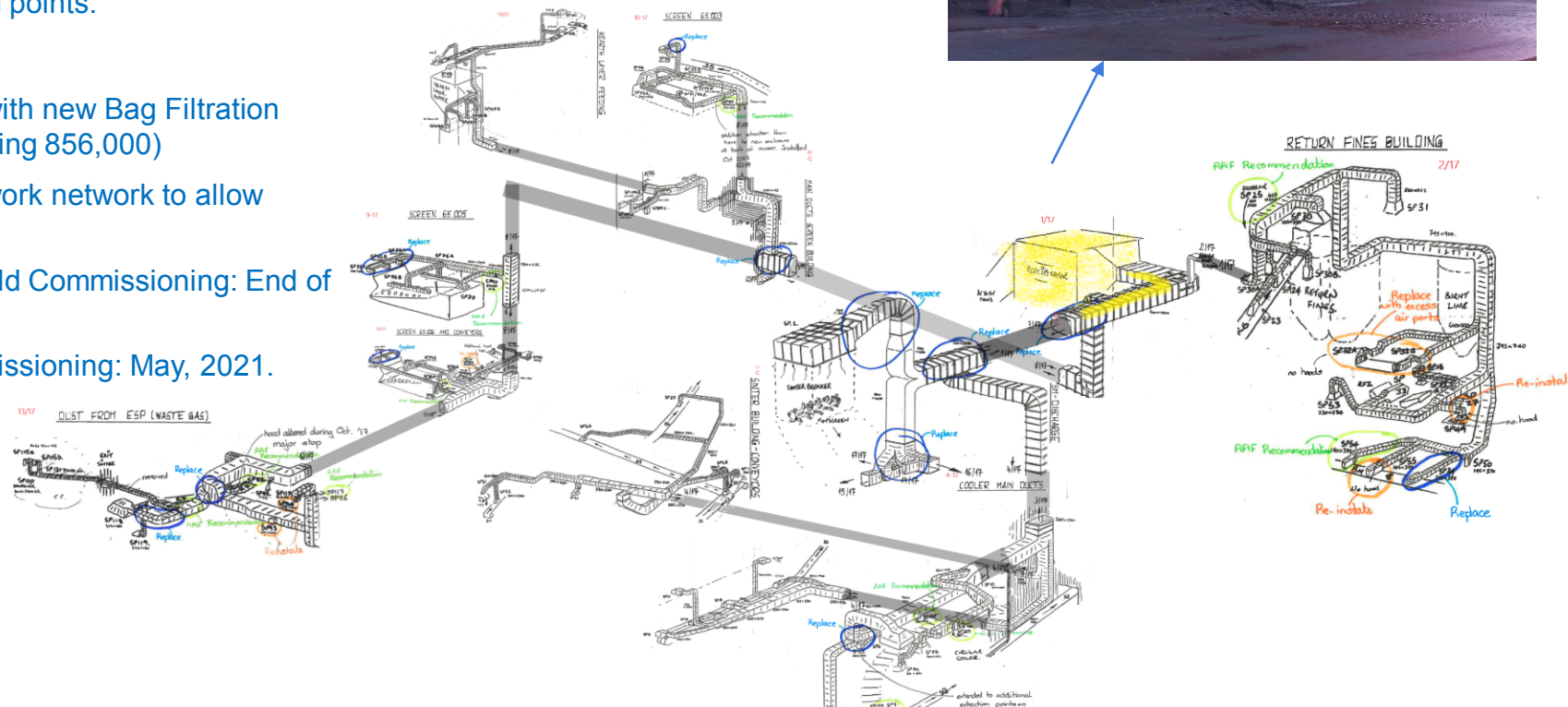
New De-Dust Bag Filtration Plant

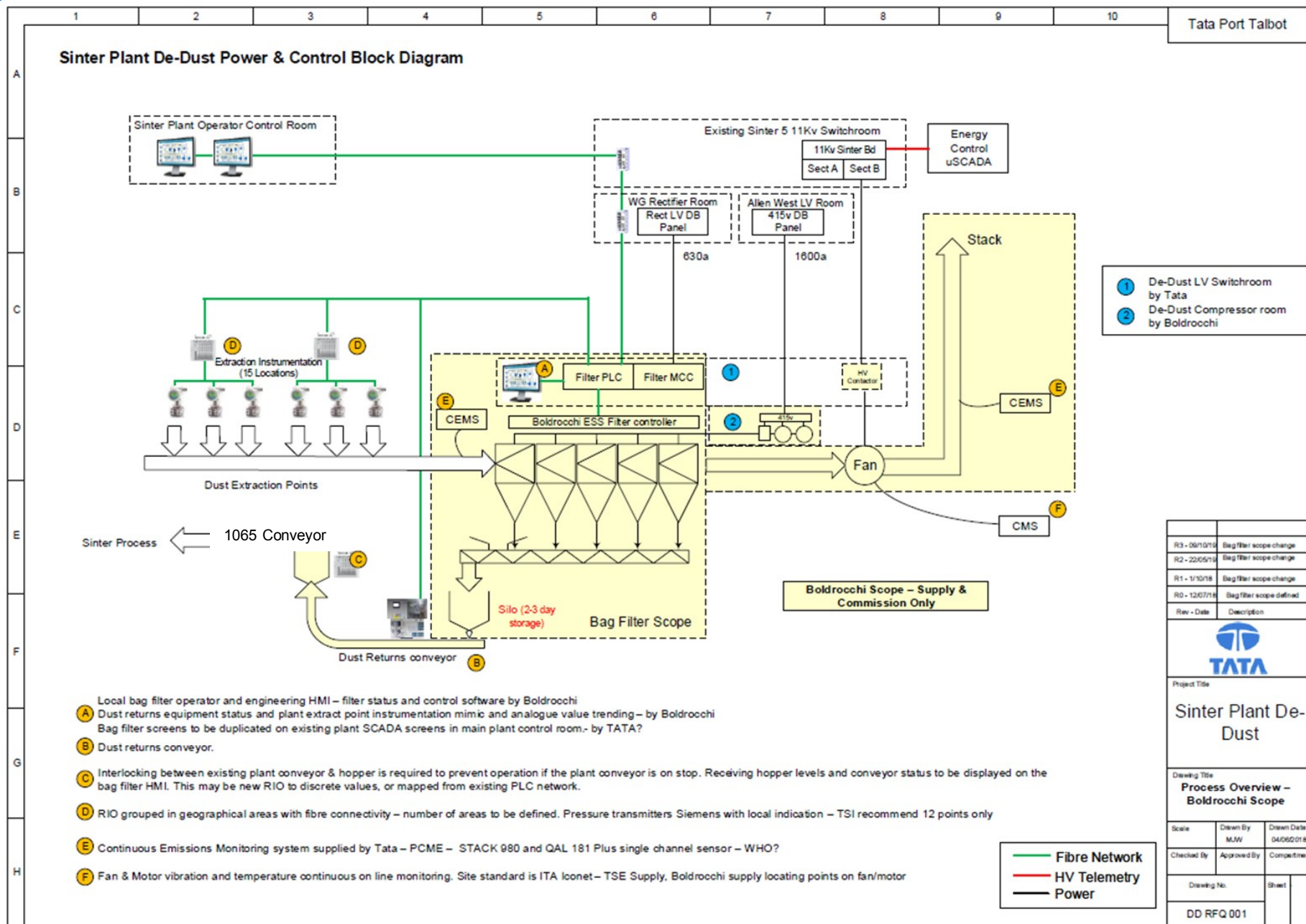
Overview:

- Network of internal ductwork to extract the dust from various points in sinter plant.
- Existing ESP in poor condition and does not comply with the new Industrial Emissions Directive to reduce the stack emissions below $10\text{mg}/\text{Nm}^3$.
- Internal ductwork network in poor condition providing insufficient suction at extraction points.

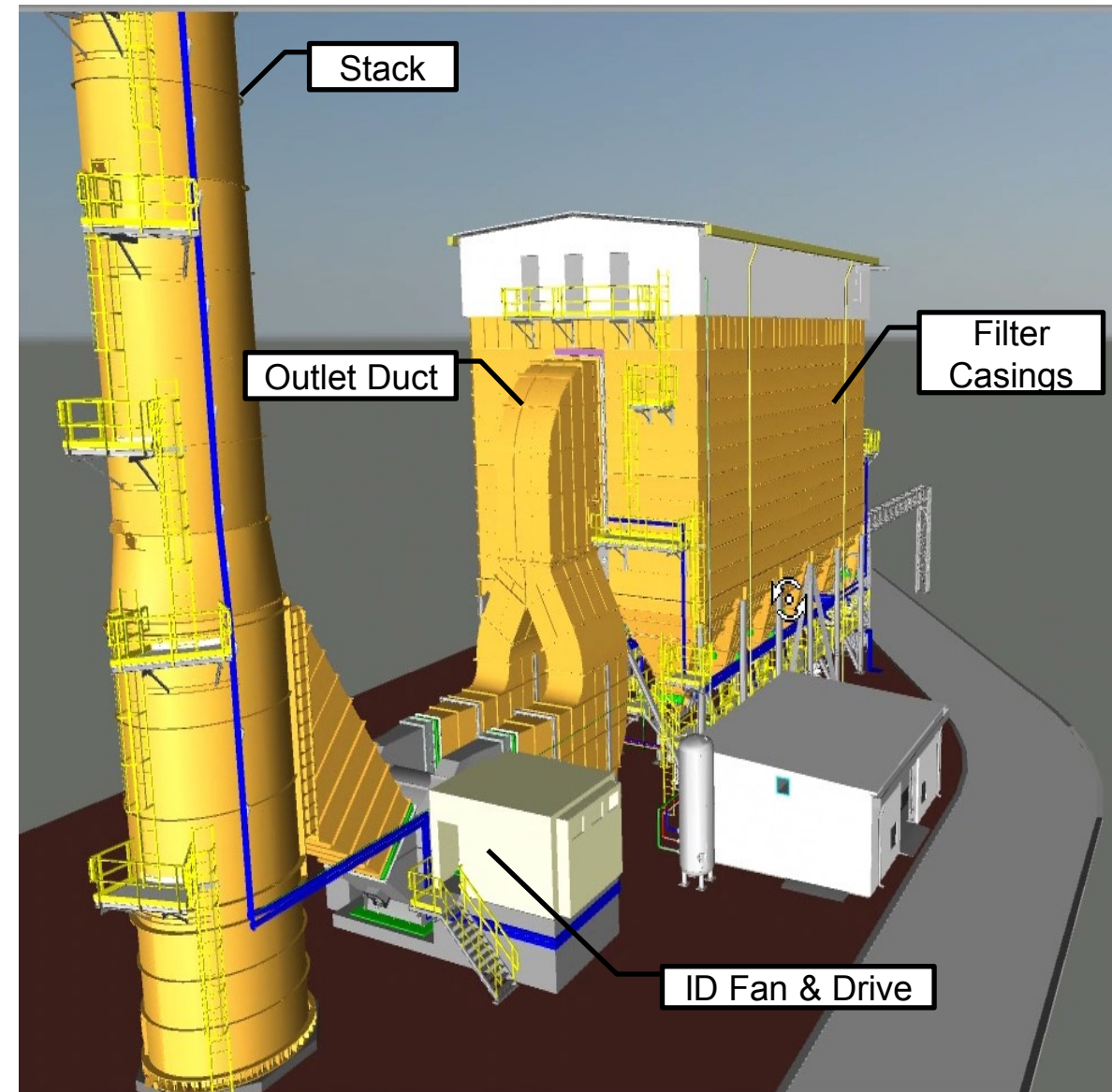
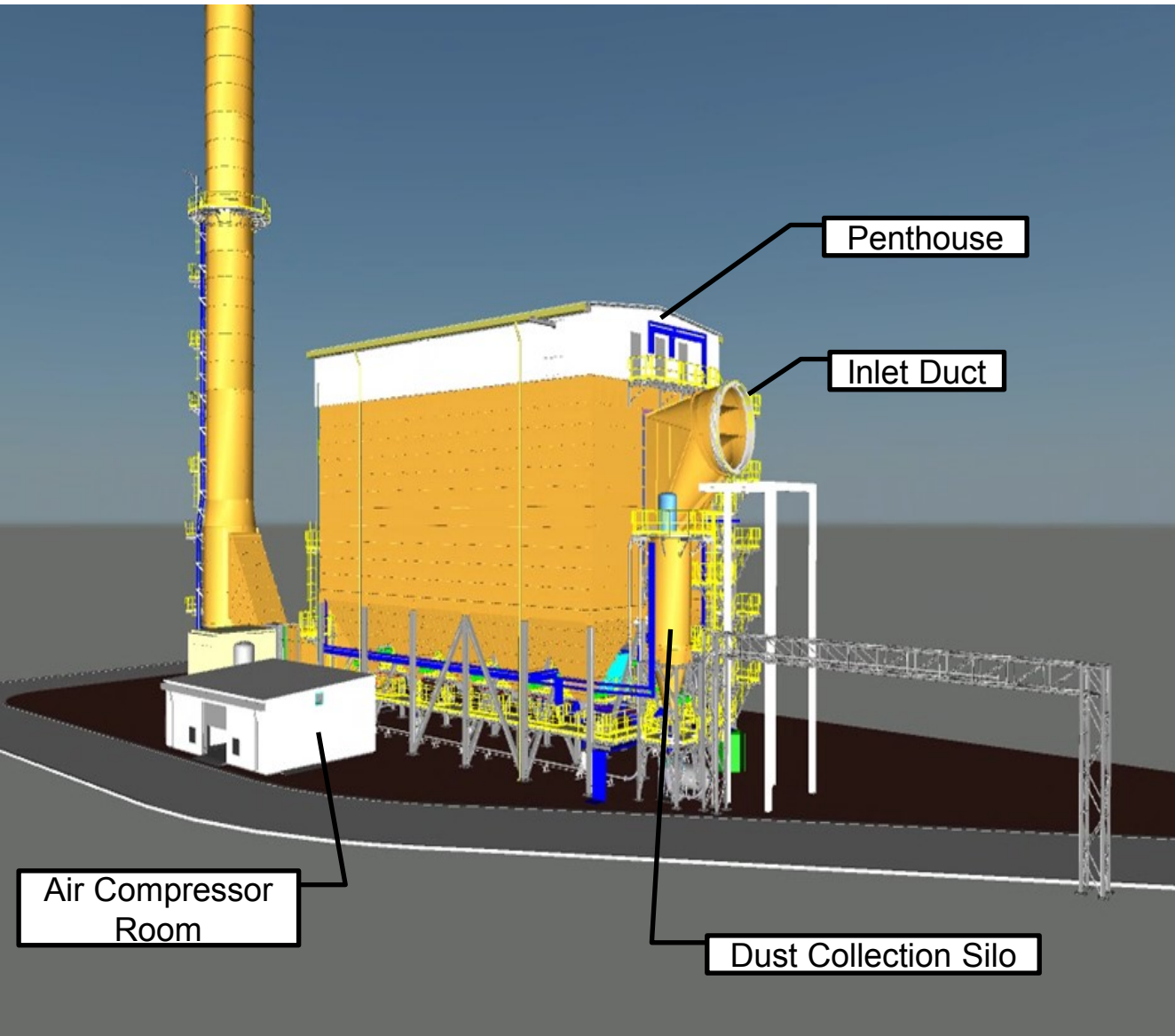
Scope:

- Replacement of existing ESP with new Bag Filtration Plant. $900,000\text{M}^3/\text{hr}$ flow (existing $856,000$)
- Improvements to internal ductwork network to allow efficient extraction.
- Plant ready for Power On & Cold Commissioning: End of April 2021
- Duct Changeover & Hot Commissioning: May, 2021.

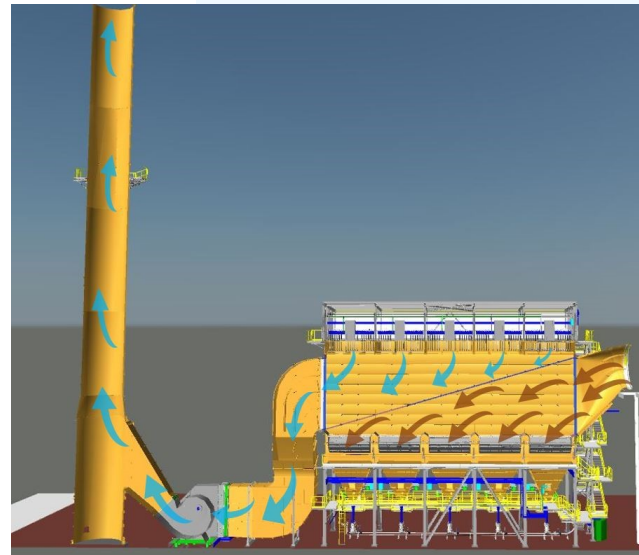
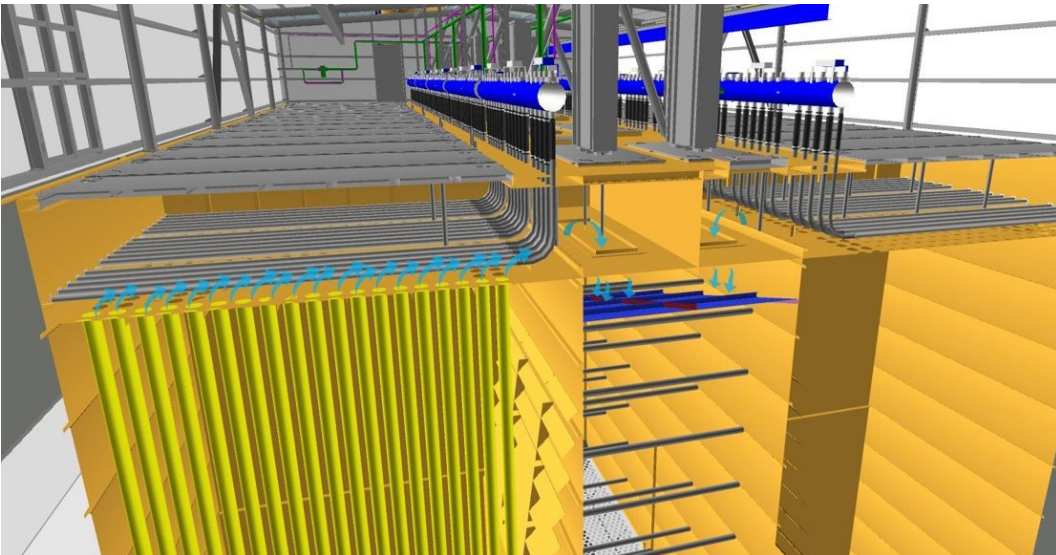
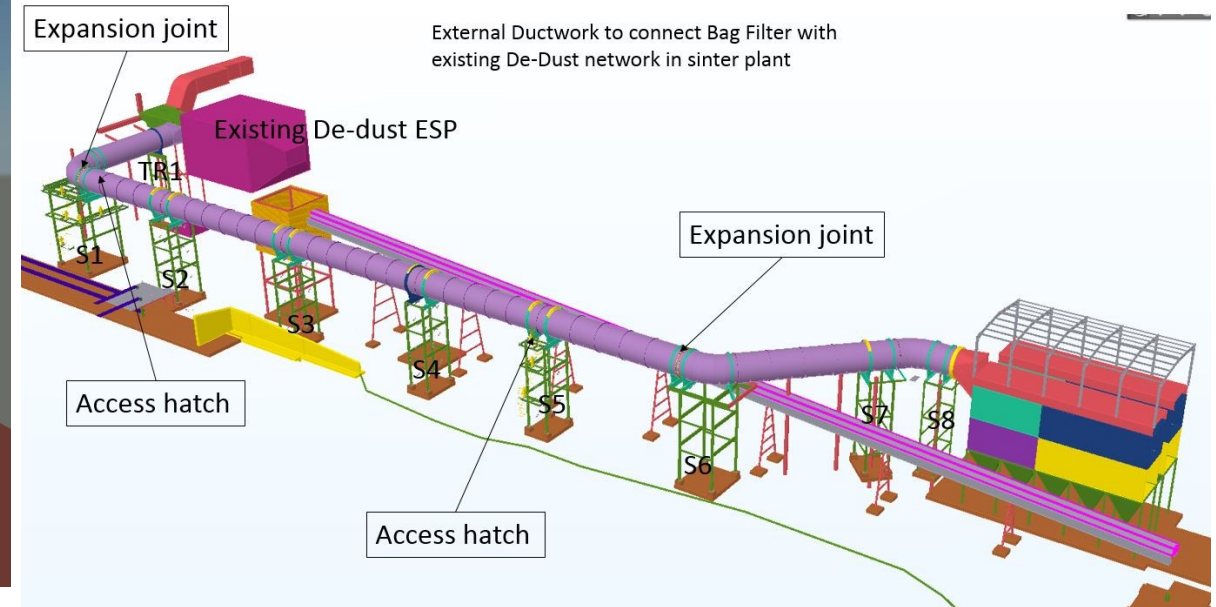
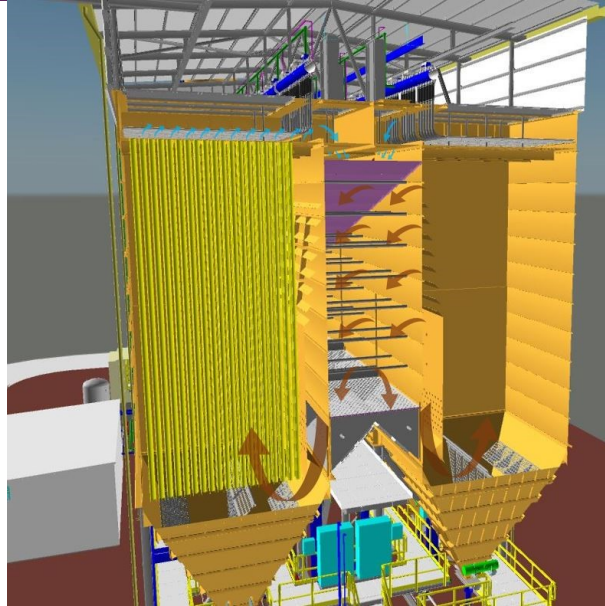
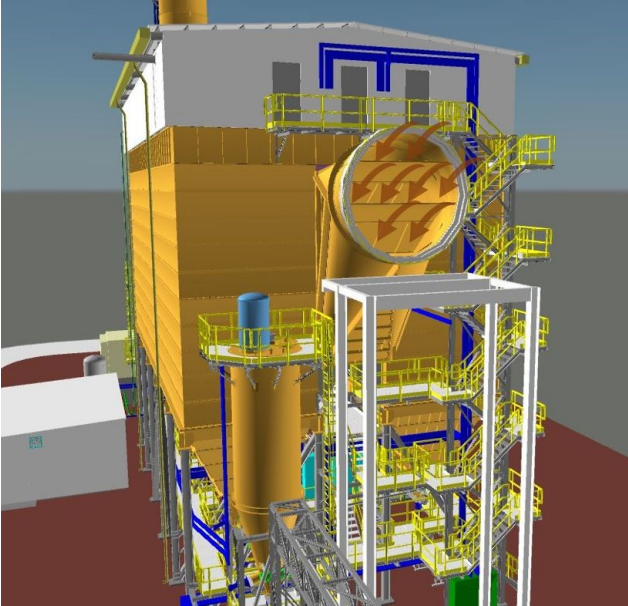




Project Description and Scope



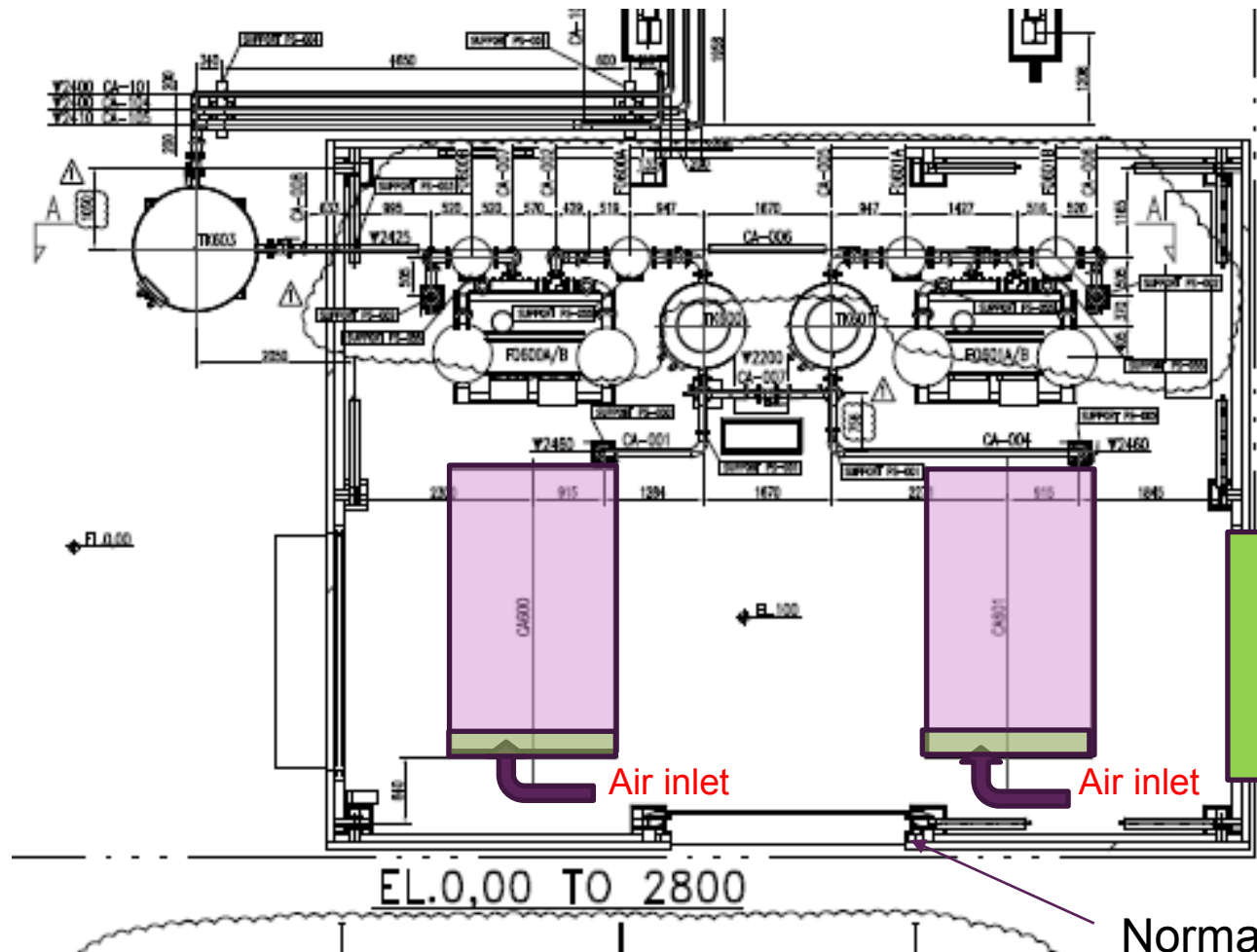
Project Description and Scope



10 filter compartments in 2 rows of 5,
each compartment contains 342
vertically hanging 9m bags.

2500Kw fixed speed fan.

Bag Filter Compressor House



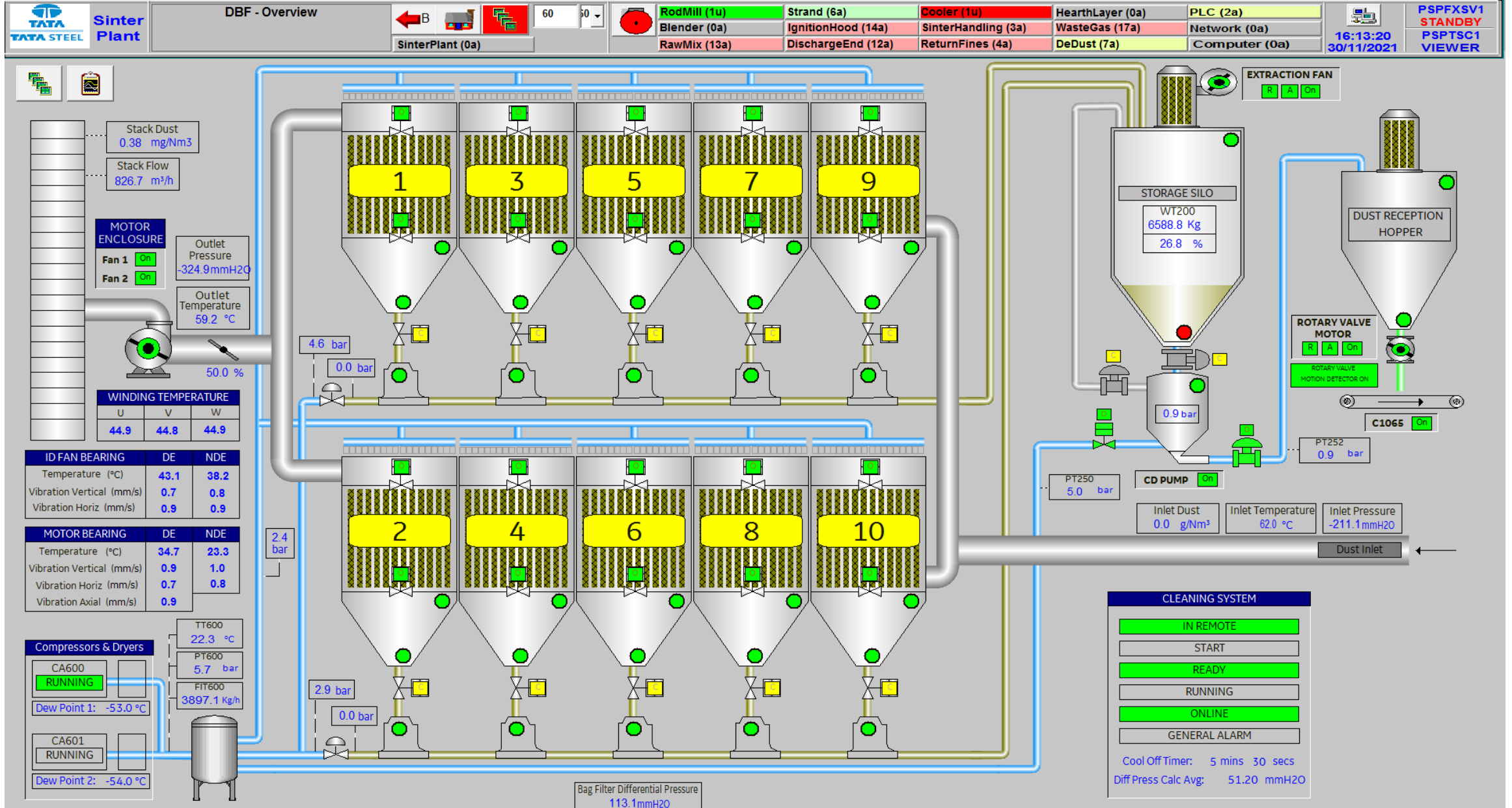
2 Compressors are Ingersoll Rand RS250n with VSD drives. Duty/Standby arrangement ie. only one runs at a time. Each requires 6800 CFM.

Each compressor has a desiccant dryer to provide a dewpoint of -50C.

Air Inlet & Filter pack

Normally closed roller access door

Usual Wind Direction





Schenck pneumatic dust conveying systems, 1 per row of 5 hoppers feed in to an intermediate silo.

Dust is pumped from this silo to the Sinter plant in a similar pneumatic conveyor.

Transport system air supply pressure is 6 Bar

Note this image was during construction.