

.HMC. WAGON TIPPLER DRY FOG DUST SUPPRESSION SYSTEM

.hmc. Dry Fog WAGON TIPPLER DS system Operates with compressed air & water synchronized through a twin port nozzle atomizing water into a mist of microscopic particles as small as one micron.

Principle of Operation:

The pump & compressor is to be activated manually (optional auto system if required) spray will activate automatically once the wagon tipping action starts in the WT-MCC.



The WT DFDS Spraying actuation shall be controlled from MCC by pushing the LPBS switch to energize the normally closed Air & Water solenoid valve. The Spraying will be started / stopped through Solenoid Valve mounted on the Solenoid Boxes for each header. Specific solenoid valves will get energized based on the WT movement and will get de-energized through a pre-set timer (adjustable). The system shall be suitably interlocked by solenoid box with the wagon tippler mechanism so that the spraying time should be throughout the complete operation of tipping. Total suppression system shall act in such a way that the water curtain shall cover the entire periphery of the hopper.

Pre-Wetting DS System – Waiting Wagons

The Twin port Fogging type DFDS spray nozzle fitted on the entrance of the receiving pit area will spray to moisten the top layer at the wagon.

Further in order to form a water curtain around the entire periphery specially designed twin port atomizing nozzle shall be installed & activated at the same time with an air compressor & water pump (Nozzle discharge Air -3.5 CFM @ 5 Bar, & Water-0.3 lpm @ 1 bar pressure).

Dust generating points will be properly placed with twin spray headers and DFDS nozzles which produce Fine Fog. The Air borne dust oncoming in contact with the fine fog type water particle, which becomes heavy and settle down with the original material flow.



COMPLETE SYSTEM CONSISTING OF ELECTRICAL ACTUATOR / SPRAY HEADER / DFDS NOZZLE / FILTER / BALL VALVE / WATER PUMP / AIR COMPRESSOR / RECEIVER / AIR & WATER REGULATORS / MCC PANEL / GI PIPES & REQUIRED INSTRUMENTS.

.HMC Equipments Private Limited.

(AN ISO 9001:2015 CERTIFIED)

CONTROLLING ENVIRONMENT

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