

.HMC. TRACK HOPPER COLD FOG DUST SUPPRESSION SYSTEM

.hmc. Cold Fog TRACK HOPPER DS system is a plain filtered water high pressure Dust Suppression system. (Application) Track Hopper normally installed along the unloading hopper above ground level on both side of the hopper.

Principle of Operation:

The pump is to be activated manually (optional auto system if required) spray will activate automatically once the wagon starts unloading into the hopper.



The Track Hopper Spraying actuation shall be controlled by LPBS switch installed at the gallery for each zone of spray header to energize the normally closed high pressure solenoid valve. The Spraying will be started / stopped through high pressure Solenoid Valve mounted on the Solenoid Boxes for each zone header. Specific solenoid valves will get energized based on the specific wagon unloading and will get de-energized through a LPBS as soon as the wagon is unloaded. 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 Fogging type 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 atomizing nozzle shall be installed & activated at the same time with an extra high pressure small discharge pump (nozzle discharge 0.05 to 0.25 lpm @ 70- 100 bar pressure)

Dust generating points (Hopper) will be properly placed with spray headers either side with nozzles which produce fine mist sprays. The Air borne dust oncoming in contact with the fine mist type water particle, which becomes heavy and settle down with the original material flow.

Clarified Water for CFDS System

Ro quality treated water required for CFDS system to omit nozzle chocking & scale formation in the pipeline.

COMPLETE SYSTEM CONSISTING OF ELECTRICAL ACTUATOR / SPRAY HEADER / CFDS NOZZLE / FILTER / SS-304 BALL VALVE / HIGH PRESSURE WATER PUMP / MCC PANEL / SS-304 PIPES & REQUIRED INSTRUMENTS.



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(AN ISO 9001:2015 CERTIFIED)

CONTROLLING ENVIRONMENT

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