

Requirement

The complete systems shall be ready to use units mounted on base frame with wheels, drawbar and three screw jacks

Required 1 no of Mist Cannon Air Borne dust suppression system with following items:

1. Cannon with impeller – 1 Set
2. SS Nozzles ring with SS Nozzles
3. Control module – 1 Set
4. Induction Motor – 1 No
5. High Pressure Booster pump– 1 No
6. Inlet strainer with SS mesh – 1 No
7. Blower with high volume and high pressure fan – 1 set
8. Fan safe guard mesh – 1 Set
9. Trolley for mounting the Fog canon – 1 Set
10. Power Cable of adequate length with Plug – 1 X 25 meter (at least)
11. Height adjustable mechanism (0 to 60-degree elevation) – 1 Nos
12. 0 to 360-degree rotation
13. Water Hose - 10 meters -1 Set

Technical Specifications:

Cannon with impeller: it should be trolley mounted with 3 off road pneumatic wheel. Jack wheel locking provision should be provided in the trolley. Skid with heavy duty bearing for automatic 360-degree rotation, water filter support.

Nozzle: Nozzle should be of stainless steel made

Control module: Panel should be with blower star delta starter, pump DOL starter, over load protection, phase protection, dry run controller. It should be Siemens / CG/ L&T make. Weather and Dust protection should be provided to the panel box.

Induction motor: Motor should be 45-50 lpm and having pressure 18-20 bar. Motor cover should be provided. It should be Siemens / CG/ Marathon/ABG make

High Pressure Booster Pump: The pump should be capable of working with inlet water pressure of minimum +1 bar and maximum 6 bar. Outlet. It should be Kirloskar / Grand foss make.

Delivery valve should be provided. Pressure gauge on the delivery side of the pump to be provided.

Blower with high volume and High pressure fan: it should be with motor vent, with high efficiency vent and air flow straightens, electric protection, PAG impeller and can throw the mist up to 50-meter distance under no wind and test condition. Fan net should be provided.

Auto Oscillation & elevation: Complete automatic oscillation control over 0 to 360-degree adjustable oscillation and 0 to 60-degree elevation/height adjust facility should be provided.

Wireless Remote control for complete equipment operation to be provided

Start up and shut down: Sensor control based automatic shut down and startup facility should be given

Installation & Commissioning: To be in Vendor's scope and to be done within 15 days from the site delivery date of the equipment

Warranty: At least 1 year guarantee for the whole equipment from the date of successful commissioning of the equipment shall be provided