

Specification for Bracket / Tubular / Pedestal Type Mancooler

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Sl.No.	Description for BHEL Requirement	Specified / To be confirmed by	Offered	Deviations if any
	General purpose Bracket type (Column mount) / Tubular Type/ Pedestal Type 610 mm sweep mancooler meant for industrial application and suitable for operation on 3phase, 415V, 50Hz a.c.supply			
1.0	Mancooler Construction			
1.1	Tubular Type Mancooler Construction	Fan mounted on a tubular, mild steel support cradle. Casing to be of mild steel, with inlet and outlet coned to improve airflow. Motor mounted on a platform inside the casing. Swivel in the vertical plane with locking arrangement. Whole unit to be robustly built to stand firmly and withstand rough handling.		
1.2	Bracket (Column Mount) Type Mancooler Construction	Fan with a tubular mount and mounting plate suitable for installation on column. Motor mounted on a platform. Swivel facility with locking arrangement.		

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1.3	Pedestal Type Mancooler Construction	Fan with a tubular pedestal mount with adjustable height. The base shall be robust to ensure stability. The height shall be approx. 1.75 m. Motor mounted on a platform.		
2.0	Impeller	610 mm sweep aerofoil axial impeller of die cast aluminum alloy for high efficiency and long throw. Blades to be dynamically and statically balanced. Impeller to be directly coupled to the motor.		
2.1	Number of blades in the impeller	Vendor to specify		
2.2	Safety Guard	Air inlet and outlet to be provided with safety guards.		
3.0	Motor Specification	Foot mounted, squirrel cage, 4 Pole, induction motor suitable for 415, 3-phase, 50Hz a.c. supply.		
3.1	Motor Power	Not less than 0.75 H.P. Vendor to specify actual power.		
3.2	Make and Frame size of motor	Reputed make. Vendor to specify make and frame size.		
4.0	Make of the Mancooler	Reputed make. Vendor to specify the make.		
5.0	Air Flow	Vendor to specify		

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5.1	Air velocity at outlet	Vendor to specify		
5.2	Noise level at 1m distance in dbA	Vendor to specify		
6.0	Dimensions	Technical and Dimensional details with catalogue to be enclosed.		
6.1	Conformance to IS standard	Vendor to specify		
7.0	Scope of supply	Quantity		
7.1	Bracket (Column mount) Type Man cooler with motor as specified above	18 nos.		
7.2	Tubular Type Man cooler with motor as specified above	24 nos.		
7.3	Pedestal Type Man cooler with motor as specified above	18 nos.		