

ANNEXURE A

Specification for Bracket type (Column Mounting) Mancoolers				
Sl. No.	Description for BHEL Requirement	Specified / To be confirmed by	Offered	Deviations if any
	Industrial Purpose Bracket type (Column Mounted) 750 mm sweep (or similar) mancooler with energy efficient motor without starter.			
1.0	Mancooler Construction-Bracket (Column Mounted) Type Mancooler	Fan with a bracket mount and mounting plate suitable for installation on column. Motor mounted on a platform. Swivel facility with locking arrangement. Whole unit to be robustly built to stand firmly and withstand rough handling		
2.0	Impeller	750 mm sweep aerofoil axial impeller 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 +/- 10% AC, 3-phase, 50Hz +/- 5% a.c. supply.		
3.1	Motor Rated Power Output	1.5 kW or 2 HP.		
3.2	Nominal Efficiency as per IE2	82.8% & above		
3.3	Make and Frame size of motor	Vendor to specify make and 90L		
3.4	Air Flow	Vendor to specify		
3.5	Air velocity at outlet	Vendor to specify		
3.6	Noise level at 1m distance in dbA	Vendor to specify		
3.7	Conformance for Mancooler Construction	IS 6272 with latest amendments		
3.8	Protection	IP55		
3.9	Operating Speed Range	1380-1480		
3.10	Method of Starting	DOL		
3.11	Technical leaflet of the Motor to be enclosed with the offer.	Vendor to confirm		
4.0	Scope of supply	Quantity		
4.1	Bracket (Column mount) Type Man cooler with energy efficient motor as per above specifications.	10 nos.		