

Sub: Technical Specification of Axial flow fans with structure mountained and tiltable -2Nos.

Sl.No.	Description for BHEL Requirement			Vendor's comment	Remarks
1.0	The Axial Fans are required for forced air cooling the Hi-Chrome Liners after the Heat treatment cycle in Common Work Shop. The Fans have to be mounted on sturdy M.S. Structure with the following facilities like adjustment of Fan Angle, Positions etc. The Jobs to be Forced Air Cooled will be placed at a height of 1 metre to a height of 1.5 meter. Bogie Size is 1.5 M X 3.5 M.				
2.0	Technical Details.				
2.1	Fan Type	:	Axial Flow	Vendor to confirm	
2.2	Free Air Discharge Capacity	:	60000 M3/Hr	Vendor to confirm	
2.3	Motor	:	Vendor to specify make & model etc. (Reputed make and Model)	Vendor to specify	
2.4	Power rating of Motor	:	Approx. 11 Kw(Vendor to Specify Exact power rating and RPM of motor)	Vendor to specify	
2.5	Input supply	:	415 V $\pm$ 10%, 3 Ph. 50 Hz	Vendor to specify	
2.6	Drive	:	Direct Drive	Vendor to confirm	
2.7	Weight of the Axial Fans along with structure	:	supplier to indicate	Vendor to specify	
2.8	Impeller material	:	Cast Aluminium Alloy	Vendor to confirm	
2.9	Impeller Dia.	:	Approx. 1240 mm	Vendor to specify	
2.10	Noise Level	:	Less than 85 db	Vendor to confirm	
2.11	Fan Speed	:	Vendor to specify (Approx. 750 rpm)	Vendor to specify	
2.12	Fan Casing Material	:	IS 2062 and 5 mm Thick M.S	Vendor to confirm	
2.13	Fan Tilting angle	:	+/- 45degree from fan blade axis(App)	Vendor to Specify	
2.14	Auto matic Star/Delta Starter for Axial Flow fan Motor.	:	1No. For each	Vendor to confirm	
3.0	Spares: Normal spares required for 2 years operation shall be quoted as optional.Vendor shall submit item wise list of spares required.			Vendor to Specify	
4.0	Supplier shall furnish operation / maintenance manuals, electric wiring diagram along with the Axial Fans			Vendor to confirm	
5.0	Vendor shall provide all safety precautions as per norms.			Vendor to confirm	
6.0	The Equipment shall have provision for lifting with over head crane.			Vendor to confirm	
7.0	The Axial Fans shall be both statically and dyanamically balanced.			Vendor to confirm	
8.0	Vendor may visit/ discuss / contact BHEL for furter queries before submitting the offer.			Vendor to confirm	
9.0	BHEL Engineers will inspect the Axial Fans at Supplier's works before despatch.			Vendor to confirm	
10.0	commissioning & prove out the Axial Fans at BHEL works as per specification is vendor's responsibility.			Vendor to confirm	
11.0	The Axial Fans shall be guaranteed for trouble free operation for a period of at least two years from the date of commissioning			Vendor to confirm	
12.0	Vendor shall submit point to point answers as per BHEL format. In absence of this the offer can't be evaluated			Vendor to confirm	
13.0	Delivery Period.	:	3 Months	Vendor to Specify	
14.0	Only those vendors, who have supplied the similar equipment of same or higher sizes for similar applications should quote. The vendors should submitted the details of such work order.			Vendor to confirm	
15.0	Vendor shall submit all the design statistics of the axial flow along with O&M manual .			Vendor to confirm	

