SR#	ITEM SPECIFICATON	QTY
`	Centrifugal Fans with Following Specifications:	
	Fan:	
	Flow Rate: 100,000 CMH, Static Pressure: 10 in of WG,	
	Construction Class: III as per ACMA, Gas Tightness Class: B Eurovent 1/10	
	Motor:	
	Power Supply: 380-415V, 3Phase, 50Hz Motor Make: Siemens, ABB or Equivalent	
	Insulation Class: H; IP Class: IP 55,Cooling Method: TEFC	
1.	Accessories:	
	Anti Vibration Mounts; Belt and Shaft Guards; Flanged Inlet and Outlet Flexible	
	Joints; Variable Inlet Vane; Outlet Damper	
	Fan Configuration RD90 as per Eurovent 1/1	02
	Fan Configuration LG90 as per Eurovent 1/1	01
	Spares and other Details / Requirements as per page-3~6	

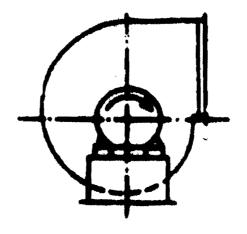
Centrifugal Fans

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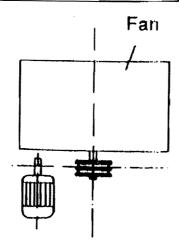
Centrifugal Fans will meet following technical specifications in addition to the requirements mentioned in Annexure "B":-

1		Description	QTY (Nos)
	Centrifugal Fans Complete with Motor, Accessories and Spares with Following Specifications:		
Fan	Fan Configuration RD90 as per Eurovent 1/1 Fan Configuration LG90 as per Eurovent 1/1		
Fan			
Fan	Ŀ		
	Type:	Centrifugal	
4	Power Transmission:	Belt Driven	
4	Flow Rate:	100,000 CMH	
•	Static Pressure:	10 in of WG	
•	Inlet:	Single	
•	Construction Material: Epoxy Painted	Wet Parts, SS; Other Parts: Carbon Steel	
À	Fan Class:	III as per ACMA	
4	Maximum Temperature:	100° C	
4	 Ambient Temperature: 	-20° C to 50° C	
•	Altitude:	.450 meters	
•	Medium:	Dust Filtered Air at Ambient Condition	
Mot	tor:		
	Power Supply:	380-415V, 3Phase, 50Hz	
4	Motor Make:	Siemens, ABB or Equivalent	
•	Insulation Class:	Н	1
•	Protection Class:	IP 55	
•	Cooling Method:	TEFC	
Fan	Configuration:-	•	
Cloc		RD90 arrangement as per Eurovent 1/1`or en from the side opposite to the inlet at 90° to the vertical axis. Both fan and motor	

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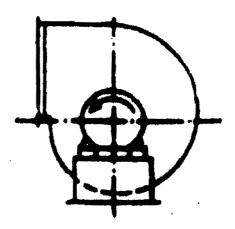


View from Driver/Motor Side for Fan-A and Fan-B



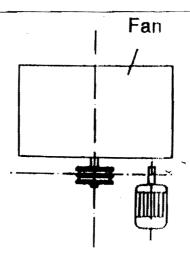
View from Top For Motor of Fan-A and Fan-B

For Fan-C: LG90 arrangement as per Eurovent 1/1 or Counter-Clockwise rotation when seen from the side opposite to the inlet (Driver/Motor Side), with outlet at 90° to the vertical axis. Both fan and motor arrangements are shown below:-



View from Driver/Motor Side for Fan-C

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View from Top For Motor of Fan-C

Gas Tightness Requirements:

- The fan will be gas tight and the gas tightness shall conform to the Class B of Eurovent "Guidelines for Gas Tight Fans", 1-10, 2005
- · Continuous welding on casing with liquid penetrant testing.
- Shaft seal shall be achieved with at least 2 floating bush rings.

Balancing Requirements:

- The rotating assembly (i.e Impeller, Shaft and Pulley) shall be balanced both statically and dynamically.
- Balancing shall conform to VDI 2060 or any equivalent industrial balancing standard. The standard and grade used for balancing must be mentioned on the quote.

Vibration and Noise Limits:

- Vibration at the bearings should be less than 4.5 mm/sec.
- The vibration characteristics shall conform to the VDI 2056 or equivalent industrial vibration standard.
- Noise level at or below 90 dB(A), at a distance of 1.5 m, measured in accordance with AMCA 300/301 or equivalent industrial standard.

Accessories:

- Provision of Inspection Door with gaskets, ensuring leak tightness
- Anti-vibration Mounts
- Belt and Shaft Guards
- Flanged Inlet and Outlet, alongwith Flexible Joints
- Variable Inlet Vane
- Outlet Damper

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Spares:

Motor:

01 No

• Shaft:

01 No

Impeller:

01 No

· Belts:

03 Sets

• Bearings:

01 Complete Set

Seals:

01 Complete Set

Additional Requirements:

• The Fan must be factory assembled and tested.

 The supply must include all the necessary documents regarding Fan operation and installation i.e. Operation and Maintenance Manuals; Installation Manuals, Characteristic Curves etc

• 3rd Party Certificates for fan balancing, vibration measurements and noise levels shall be provided.

 The overall length and width of the fan must be kept as less as possible and the dimensions alongwith drawings must accompany the quote.

 Fan motor wattage must be mentioned in the quote in addition to other technical specifications.

Note

Spare list is for all 03 No of fans and not to be mistaken for each fan.