



Dust Extraction System Specification

Description		BHEL's Requirement	Supplier's Response
Dust Type.	:	Aluminium alloy	
Dust Properties	:	Fine Granules	
Process type	:	Dry type	
Dust Load all M/c working in Blade shop	:	0.5kg / hr.	
Temperature of Dust.	:	Ambient temperature	
Extraction / filtration system	:	Cyclone type / Bag type	
Centralized / Individual Dust extraction system	:	Centralized system	
Duct (GI) Type	:	16 gauge duct (approx..)	
Motor Capacity (approx.)	:	15HP to 25HP (Depending upon System)	
Dust extract by	:	Centrifugal Fan / Blower	
Approximate distance from Dusting point to proposed equipment suction mouth	:	0.5 to 1 Meter (approx.)	
Hose for suction	:	Flexible type	
No of Dust forming points in the Blade shop.	:	10 (Blade cutting M/c , Band saw M/c , Filing vice , Surface finishing by belt grinding unit etc.,)	
Approx. sizes of the Blade Shop	:	12000mm Long X 7000mm Width X 4000mm Height	
No. of chimney in the system	:	One	
No. of Blowers in the system	:	One	
No. of systems proposed.	:	One	
No of Dust Separator in the system	:	One	

Signature and Office Seal of Vendor



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Fan / Blower		Suitable and effective suction fan / Blower shall be supplied and directly driven by the motor. Suction fan and motor shall be of reputed make and suitable for working in site condition.	
Purpose of the Extraction system.	:	Dry type system will be used for extraction of Aluminium dust generated during grinding and cutting of Aluminium Blades.	
Power supply and environment condition:	:	1. BHEL will provide input electrical power supply Three phases, 3 wire, Volt 415 +/- 10 % , Hz 50 +/- 3 at a single point near the equipment. 2. All types wiring / cabling, circuit breakers etc. required for Dry type Dust Extraction, shall be in the scope of the vendor.	

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Item Annexure

Sl no	Material Code	Item Description	Quantity (Set)	Quoted/Not Quoted
1	IM829778000	Supply and Erection & Commissioning of Blade shop Dust Extraction System	01	

Pre-Qualification Criteria (PQR)

Pre-Qualification Criteria(PQR)	Proof Submitted/Not Submitted
Suppliers who have supplied at least 1 No. of Dust extraction system of Similar or higher range in the last 10 years (On the Date of Opening of tender) are eligible to quote.	

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