



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

MATERIALS MANAGEMENT DIVISION

Powai, Mumbai 400076.

Ref No.(PR No.1000051578

(Rfx No. 6100002610)

Wet Scrubber with Centrifugal Blower: 5000 CFM

Sr. No	Item Description	Detailed Technical Specification	Technical Compliance (Yes / No)	Additional Information (if any)
1	Wet Scrubber with Centrifugal Blower: 5000 CFM	<p>High efficiency Scrubber with remote blower to separate the hazardous and toxic vapor from the exhaust. It's should satisfy the safe and acceptable pollutions norms.</p> <p>Quantity: 2 nos. Scrubber MOC: PPH Diameter: 11950 mm Overall height: 3800 mm Water Tank Capacity: 900 litres Scrubber suction and discharge size: 350mm dia Blower Capacity: 5000 cfm, 10 HP (Non-Flame Proof) Blower MOC: PP-FRP Pump Capacity: 12 m³/hr @ 1.5 bar Pump Motor: 5 HP (Non-Flame Proof) Pall ring packing: 2" PP Mist Eliminator: PP mesh, 150mm thick. Total Load: 1200 kg Max load density: 500 kg/m³ Maximum Vibration Intensity: 0.4 to 0.5 mm/sec with pad Sound level: 85 dB Water inlet pipe size: 1.25" NB Drain Size: 2" NB Scrubbing Capacity: 90% – 95% of water-soluble components</p>		
2	Wet Scrubber with Centrifugal Blower: 3000 CFM – 2 Nos.	<p>High efficiency Scrubber with remote blower to separate the hazardous and toxic vapor from the exhaust. It's should satisfy the safe and acceptable pollutions norms.</p> <p>Quantity: 2 nos. Scrubber MOC: PPH</p>		

		Diameter: 900 mm Overall height: 3800 mm Water Tank Capacity: 600 litres Scrubber suction and discharge size: 300mm dia Blower Capacity: 3000 cfm, 7.5 HP (Non-Flame Proof) Blower MOC: PP-FRP Pump Capacity: 8 m3/hr @ 1.5 bar Pump Motor: 3 HP (Non-Flame Proof) Pall ring packing: 2" PP Mist Eliminator: PP mesh, 150mm thick. Total Load: 1000 kg Max load density: 500 kg/m3 Maximum Vibration Intensity: 0.4 to 0.5 mm/sec with pad Sound level: 85 dB Water inlet pipe size: 1.25" NB Drain Size: 2" NB Scrubbing Capacity: 90% – 95% of water-soluble components		
3	Control Panel:	Quantity: 2 nos. Incoming supply: 3 Phase, 440V, AC, 50 Hz (Customer Scope) Size of panel 1: 1.2m x 0.3m x 2m Load on panel 1: 160 Amps Size of panel 2: 1.1m x 0.3m x 1.6m Load on panel 2: 63 Amps		
4	PP-FRP Ducting	Supply, Fabrication & installation of PP+FRP (3mm+2mm) thick Ducting with internal supports connecting to Fume Hood & fixed exhaust Chemical resistant 3mm PP + 2mm FRP rigid & flexible ductwork from fume hood to exhaust stack point with weatherproof canopy. Total ducting with horizontal, vertical members, flanges, bends, bracketed supports, and gooseneck exhaust stack. 3 mm PPGL Sheet covered with 2 mm glass fibre matt bonded with isophthalic resin. All connected gaskets should be of 6 mm-thick neoprene rubber for leak-proof joints. All flanges should be of 50 mm width, and all bends should be made to reduce static pressure loss. Connecting bolt, duct supports should be in GI, hanging support should be GI threaded rod type. Duct should be rounded unless otherwise approved. Necessary Dampers to be considered in the duct line to maintain uniform flow of air. Following installation of the scrubbers and ducting system, leak test to be carried out for the ducting		

5	Warranty of the system	1 year		
6		<p>PRE-QUALIFICATION REQUIREMENTS:</p> <p>1. Bidders shall have a minimum of 03 (Three) years of experience in supplying and installing similar jobs in any government entity. PO copy/copies of similar jobs to be attached. 'Similar Job' means 'Supply and Installation of Wet Scrubber System with blower and ducting.</p> <p>2. The bidder must have a minimum annual average turnover of Rs. 4 crores during the last three financial years. The bidders should submit a copy of the Turnover Certificate from CA for those 3 years, along with the Tender document.</p> <p>3. Bidder should attach the following certificate. ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001:2018.</p> <p>4. The bidder should be in a position to provide satisfactory after-sales service and must be able to provide quality maintenance service after expiry of the guarantee/warranty period by maintaining sufficient stock of spare parts, etc., and service personnel Mumbai.</p>		