

SPECIFICATION FOR PORTABLE FUME EXTRACTION SYSTEM

SPEC NO: LFM/SP/16-17/01, Rev-01

Rev date: 20/06/2017

Sl. No.	PARTICULARS	BHEL Requirement	Supplier's Comments
1	NAME OF ITEM	FUME EXTRACTION SYSTEM	
2	MAKE	Nederman/ Plymovent/ Cleantek/ Dynavac/ Flexclean	
3	TYPE	PORTABLE/MOBILE	
4	HOUSING MATERIAL/BODY	ELECTRO-ZINC COATED STEEL	
5	MOTOR	>=1.1 KW, 3-Φ/1-Φ, 415/230V, 50 HZ	
6	EXTRACTION CAPACITY (Incl EXTRACTION ARM)	>= 1100 m³/hr (650 CFM)	
7	FILTER MATERIAL	100% BiCo POLYESTER WITH PTFE MEMBRANE	
8	FILTER SURFACE AREA	>= 12m²	
9	FILTER CLASS	M	
10	FILTER CLEANING	MANUAL/ SELF CLEANING	
11	FILTER ALARM	INBUILT IN THE UNIT	
12	FILTER EFFICIENCY	>= 99%	
13	EXTRACTION ARM DIAMETER	>=160 MM	
14	EXTRACTION ARM MATERIAL	SHOULD BE CAPABLE TO WITHSTAND FUMES UPTO TEMPERATURE OF 150°C DURING CONTINUOUS OPERATION.	
15	EXTRACTION ARM LENGTH	>= 3 MTR	
16	NO OF EXTRACTION ARM	1	
17	MOUNTING	4 WHEELS, 2 SWIVEL CASTER WITH BRAKES	
18	DUST TRAY CAPACITY	>= 10 LITERS, LOCKABLE	
19	TOOLS & TACKLES	ALL SPECIAL TOOLS REQUIRED FOR MAINTENANCE OF THE SYSTEM.	
20	GENERAL COMMENTS	THE SUPPLIER SHALL PROVIDE A LIST OF ALL THE SPARES USED IN THE UNIT WITH PART NO, MAKE, SPECIFICATIONS & QUANTITY.	
21	GUARANTEE/WARRANTY	MINIMUM 12 MONTHS FROM DATE OF COMMISSIONING. ALL COMPLAINTS TO BE RESOLVED WITHIN A REASONABLE TIME FRAME. VENDOR TO SUBMIT DETAILS OF THE SERVICES OFFERED.	
22	DOCUMENTS:	TECHNICAL CATALOGUES AND O&M MANUALS	
23	AMBIENT CONDITIONS		
a.	MAX TEMPERATURE	50°C	
b.	MIN TEMPERATURE	0°C	
c.	RELATIVE HUMIDITY	97% MAX	