

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY MATERIALS MANAGEMENT DIVISION

Ref No. 1000044661

RFX No 6100002004

TECHNICAL SPECIFICATION FOR LYOPHILIZER WITH 3 YEARS WARRANTY

			Tochnical	A dditional
			Technical	Additional
			Compliance	information
Sr	Item Description	Detailed Technical specifications	(Yes/No)	if any
1	Model type	Table top OR Trolley with a standalone model		
		It should be able to freeze dry samples containing aqueous		
2.	Samples	and organic solvents of higher concentration.		
3.	Condenser	Drying Performance: 2.5 Kg or more per 24 hours		
		Ice holding capacity: minimum 4 litre		
		The collector coil and condenser chamber should be made		
		of stainless steel, preferably SS316. A MOC certificate		
		should be provided.		
		The condenser coil should be in direct contact with the		
		vapours for an efficient cold trap.		
	Final condenser	-105 degrees at ambient room temperature of 25 degrees		
4.	temperature	С		
		Clear, made up of tempered mineral glass and resistant to		
5.	Drying chamber	chemicals and scratches		
		It should have 12 ports with individual valves made up of		
		chemical-resistant material to accommodate round		
		bottom flasks/ wide neck bottles		
		Suitable detachable SS Rack with minimum adjustable 3		
		shelves for Petri dishes/ vials		
		4 wide-mouth, flat-bottom suitable glass flasks should be		
		provided each of 600 ml, 800 ml and 1000 ml capacity		
		with chemical resistant cap and adapter for the post (total		
6.	Flasks	12 flasks).		
	Vacuum pump &			
7.	sensor	Organic chemical resistant		
		The vacuum hose connecting the pump to the freeze dryer		
		should be stainless steel.		
		Electromagnetic vacuum control valve to control the		
8.	Vacuum control	vacuum for faster drying		
		Showing process data: Temperature, Process time, suction		
9.	Display	time & vacuum		
	Modes of the			
10.	drying process	Automatic & manual		
		It should have a system leakage test,		
11.	Other features	vacuum/performance test		
		It should have a defrost provision		
12.	Warranty	3 years Warranty		