



Title: Preventive Maintenance of Laminar Air Flow

SOP No.:		Revision No.:	00
Effective Date:		Supersedes No.	Nil
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1.0 OBJECTIVE

1.1 To describe a procedure for the preventive maintenance of laminar air flow.

2.0 SCOPE

2.1 This procedure applies to the Engineering department.

3.0 RESPONSIBILITY

3.1 Engineering

4.0 ACCOUNTABILITY

4.1 Plant Head

5.0 REFERENCE (S)

5.1 In-house.

6.0 PROCEDURE

6.1 Procedure for mechanical work:

- 6.1.1 Switch off the power supply of the machine and put "under maintenance" label.
- 6.1.2 Clean prefilters as per SOP.
- 6.1.3 Check condition of manometer tubes, replace the same if damaged.
- 6.1.4 Check manometer for ZERO set, if found faulty replace the same with new gauge (calibrated).
- 6.1.5 Check the HEPA filter physically for any damage.
- 6.1.6 Tighten all loose parts.

6.2 Procedure for electrical work:

- 6.2.1 Check electrical connections of blower.

6.3 Procedure for trial run:

- 6.3.1 Switch on the power supply.
- 6.3.2 Switch on the mains & check blower motor for abnormal vibration & noise.
- 6.3.3 Check pressure drop across the filter as per the defined range.



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6.3.4 Check & record the observations as per Annexure-I.

6.3.5 Switch off the mains.

6.4 Procedure for handover of machines:

6.4.1 Remove “under maintenance” label & affix the preventive maintenance status label and inform the concerned department.

6.5 Frequency of preventive maintenance is once in two months.

7.0 HISTORY

7.1 Details are given below.

SOP No.	REASON FOR CHANGE	EFFECTIVE DATE

8.0 **ABBREVIATIONS:** The abbreviations used in the SOP are:

8.1 SOP - Standard Operating Procedure

8.2 No. - Number

8.3 QA - Quality Assurance



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ANNEXURE-I

PREVENTIVE MAINTENANCE CHECK LIST FOR LAMINAR AIR FLOW

Equipment ID No. _____

Date: _____

S.No.	Particulars	Done/Not Done	Remarks
1.	Checking of electrical connections.		
2.	Checking LAF for vibration.		
3.	Check condition of manometer.		
4.	Check zero of manometer.		
5.	Check filters condition.		
6.	Check ampere of each phase.		

Done by
(Sign & date)

Checked by
(Sign & date)