



**PHARMA DEVILS**

**OPERATIONAL QUALIFICATION  
PROTOCOL CUM REPORT  
FOR  
DUST-EXTRACTOR**

**PROTOCOL No.:**

**OPERATIONAL QUALIFICATION  
PROTOCOL CUM REPORT  
FOR  
DUST-EXTRACTOR**

<b>EQUIPMENT ID. No.</b>	
<b>LOCATION</b>	<b>Compression</b>
<b>DATE OF QUALIFICATION</b>	
<b>SUPERSEDES PROTOCOL No.</b>	<b>NIL</b>



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**1.0 PRE – APPROVAL:**

**INITIATED BY:**

<b>DESIGNATION</b>	<b>NAME</b>	<b>SIGNATURE</b>	<b>DATE</b>
<b>OFFICER/EXECUTIVE (QUALITY ASSURANCE)</b>			

**REVIEWED BY:**

<b>DESIGNATION</b>	<b>NAME</b>	<b>SIGNATURE</b>	<b>DATE</b>
<b>HEAD (PRODUCTION)</b>			
<b>HEAD (ENGINEERING)</b>			

**APPROVED BY:**

<b>DESIGNATION</b>	<b>NAME</b>	<b>SIGNATURE</b>	<b>DATE</b>
<b>HEAD (QUALITY ASSURANCE)</b>			



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**2.0 OBJECTIVE:**

- To verify that the equipment operates in accordance with the design and user requirements as defined by set Acceptance Criteria and complies with relevant cGMP Requirements.
- To verify the Operational features of Dust Extractor and to ensure that it produces desired Quality & rated output according to manufactures specifications.
- To verify all the Operational features from user point of view of the Equipment, Cleaning Procedure, Start up & Shut down Procedure and Safety Features.

**3.0 SCOPE:**

- The scope of this operational qualification protocol cum report is limited to qualification of **Dust Extractor (Make: .....)** to be installed in the Compression.
- The Dust Extractor is a standalone unit with plug in type electrical connections for operation and is on castor wheels. Hence, may be moved as per requirement to other area of operation which shall not change the performance of equipment.
- This Protocol will define the methods and documentation used to perform OQ activity the Dust Extractor for OQ. Successful completion of this Protocol will verify that Dust Extractor meet all acceptance criteria and ready for Performance Qualification.



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**4.0 RESPONSIBILITY:**

The Validation Group, comprising of a representative from each of the following departments shall be responsible for the overall compliance of this Protocol cum Report:

<b>DEPARTMENTS</b>	<b>RESPONSIBILITIES</b>
<b>Quality Assurance</b>	<ul style="list-style-type: none"><li>• Initiation, Authorization, Approval and Compilation of the Installation Qualification Protocol cum Report.</li><li>• Co-ordination with Production and Engineering to carryout Installation Qualification.</li><li>• Monitoring of Installation Qualification Activity.</li></ul>
<b>Production</b>	<ul style="list-style-type: none"><li>• Review &amp; Pre Approval of Protocol cum Report.</li><li>• To Co-ordinate and support for Execution of Qualification study as per Protocol.</li><li>• Post Approval of Qualification Protocol after Execution.</li></ul>
<b>Engineering</b>	<ul style="list-style-type: none"><li>• Review &amp; Pre Approval of Protocol cum Report.</li><li>• Co-ordination, Execution and technical support in Dust Extractor Installation Qualification Activity.</li><li>• Calibration of Process Instruments.</li><li>• Responsible for Trouble Shooting (if occurs during execution).</li><li>• Post Approval of Qualification Protocol after Execution.</li></ul>



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**5.0 EQUIPMENT DETAILS:**

<b>Equipment Name</b>	Dust Extractor
<b>Equipment</b>	
<b>Manufacturer's Name</b>	
<b>Model</b>	
<b>Sr. No.</b>	
<b>Supplier's Name</b>	Fluid Pack
<b>Location of Installation</b>	Compression

**6.0 SYSTEM DESCRIPTION:**

**Variable Air Flow (CFM):**

It allows adjusting the amount of air flow and it is typically measured in CFM. Higher the CFM more air is being moved and the more suction is being created.

**Filter Bags:**

It is for containing dust. They make removal and transferring debris, easy and clean. Filter bag with cap seals prevent the dust to spread within the machine while transporting.

**Filter Cleaner:**

Filter cleaner remove the accumulation of dust and debris from the internal filter, reducing the chance of overheating the motor and electrical components when there is poor air circulation. It provides thermal protection for motor as an added level of safety.

**Venting and Exhaust:**

Extract the material by creating vacuum, pulling it forcefully toward the filter bag resulting in collection of dust in filter bag and left over air is being removed out.



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**7.0 PRE - QUALIFICATION REQUIREMENTS:**

**7.1 Verification of Documents:**

- DQ Protocol cum Report.
- IQ Protocol cum Report.
- Draft SOP for Operation & Cleaning of Dust Extractor.
- Draft SOP for Preventive Maintenance of Dust Extractor.
- Electrical Circuits Diagram.
- Technical specification of equipment.

**7.1.1 Procedure:**

- Verify the above mentioned documents for availability, completeness and approval status
- If any deviation is observed the same has to be recorded giving reasons for deviation and approved. Deviation should be approved by Authorized person.
- Approved Drawings and supporting documents would form a part of the OQ Protocol cum report.

**7.1.2 Acceptance Criteria:**

All the documents should be available, complete and approved by respective authorities.



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**8.0 CRITICAL VARIABLES TO BE MET:**

**8.1 Verification of documents:**

The results of any tests should meet the limits and acceptance criteria specified in the test documents.  
Any deviations or issues should be rectified and documented prior to OQ commencing.

S.No.	Document Name	Document/SOP No.	Completed (Yes/No)	Checked By (Engineering) Sign/Date	Verified By QA Officer/Exe. Sign/Date
1.	DQ Protocol Cum Report				
2.	IQ Protocol Cum Report				
3.	Draft SOP for Operation & Cleaning of Dust Extractor.				
4.	Draft SOP for Preventive Maintenance of Dust Extractor.				

**Checked By (Production)**  
**Sign/Date:** .....

**Verified By (Quality Assurance)**  
**Sign/Date:** .....

**Inference:**

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**Reviewed By (Manager QA)**  
**Sign/Date:** .....





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**8.2 Test Equipment Calibration:**

Verify that all critical instruments associated with the system will be in a calibrated state. Review the calibration status for the test equipment to be utilised and record the calibration due dates in the table below. All Equipment/Instrumentation must remain within the calibration due date for the duration of OQ test for which the item is used. If a due date potentially occurs during the testing period then the instrument must be recalibrated before it can be utilised.

<b>Equipment/ Instruments Name</b>	<b>Equipment/ Instrument ID</b>	<b>Calibration On</b>	<b>Due On</b>	<b>Checked By (Engineering) Sign/Date</b>

**Checked By  
(Production)  
Sign/Date: .....**

**Verified By  
(Quality Assurance)  
Sign/Date: .....**

**Inference:**

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**Reviewed By  
(Manager QA)  
Sign/Date: .....**



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**8.3 Operational and Functional Checks:**

Operate the Dust Extractor as per Manufacturer’s Manual/SOP and Check for the following functions of the Equipment. The Equipment should function as desired.

S.No.	Function	Operation	Acceptance criteria	Observation	Checked By (Engineering) Sign/Date
1.	<b>Power Supply</b>	Connect the power supply to the equipment.	Machine will ready for operation.		
2.	<b>Motor Operation</b>	Switch ON the equipment	Equipment starts operating and start dust extraction.		
3.	<b>Movement of equipment</b>	Move the equipment in all directions.	Smooth & easy movement should be facilitated by castor wheels.		
4.	<b>Suction Blower</b>	Effective Suction	Suction Blower properly balanced and provide effective suction.		
5.	<b>Shaking Handle</b>	Works Properly	Shaking Handle fitted properly and works properly.		

**Checked By  
(Production)  
Sign/Date: .....**

**Verified By  
(Quality Assurance)  
Sign/Date: .....**

**Inference:**

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**Reviewed By  
(Manager QA)  
Sign/Date: .....**



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**8.4 Safety Testing/Interlocking:**

Safety checks	Acceptance criteria	Observation	Observed by (Engineering) Sign/date
Press 'OFF' Switch	Dust Extractor should OFF.		
Electrical Wiring	Must be inside the machine.		
Motor Overload Relay or any short circuit	MCB should be trip if overloaded and any short circuit.		
Noise Level	Below 80 db.		

**Checked By  
(Production)  
Sign/Date: .....**

**Verified By  
(Quality Assurance)  
Sign/Date: .....**

**Inference:**

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**Reviewed By  
(Manager QA)  
Sign/Date: .....**



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**8.5 Power Failure Verification:**

Item	Acceptance Criteria	Observation	Observed By (Engineering) Sign/Date
<b>Main Power shut down</b>	Equipment stops in safe and secure condition.		
<b>Main Power Restored</b>	Equipment can be restarted with no problems or adverse conditions.		

**Checked By  
(Production)**

**Sign/Date:** .....

**Verified By**

**(Quality Assurance)**

**Sign/Date:** .....

**Inference:**

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**Reviewed By  
(Manager QA)**

**Sign/Date:** .....



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**9.0 REFERENCES:**

**The Principle Reference is the following:**

- Validation Master Plan.
- Schedule-M – “Good Manufacturing Practices and Requirements of Premises, Plant and Equipment for Pharmaceutical Products.”
- WHO Essential Drugs and Medicines Policy, QA of Pharmaceuticals, Vol-2 – Good Manufacturing Practices and Inspection.

**The following references are used for addition guidance**

- FDA/ISPE Baseline Pharmaceutical Engineering Guide-Volume 5:- Commissioning and Qualification Guide, First Edition/March 2001.
- EU Guide to Good Manufacturing Practice, Part 4, 1997.
- European Commission’s working party on control of medicines and inspections document, Validation Master Plan, Design Qualification, Installation & Operational Qualification, Non Sterile Process Validation, Cleaning Validation, October 1999.

**10.0 DOCUMENTS TO BE ATTACHED:**

- Operation and Maintenance Manual.
- Copy of Draft SOP’s.
- Any other Relevant Documents.



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**11.0 DEVIATION FROM PREDEFINED SPECIFICATION IF, ANY:**

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**12.0 CHANGE CONTROL, IF ANY:**

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**13.0 REVIEW (INCLUSIVE OF FOLLOW UP ACTION, IF ANY ):**

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**14.0 CONCLUSION:**

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**15.0 RECOMMENDATION:**

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**16.0 ABBREVIATIONS:**

No.	:	Number
WHO	:	World Health Organization
FDA	:	Food and Drug Administration
CFR	:	Code of Federal Regulations
EU	:	European Union
OD	:	Oral Solid Dosage
IQ	:	Installation Qualification
OQ	:	Operational Qualification
EQ	:	Equipment
MOC	:	Material of Construction
NLT	:	Not less than
HP	:	Horse Power
KW	:	Kilo watt
SS	:	Stainless Steel
ID.	:	Identification
Kg	:	Kilo gram
Ltrs	:	Liters
mm	:	Millimeter
MCB	:	Miniature Circuit Break





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**17.0 POST APPROVAL:**

**INITIATED BY:**

<b>DESIGNATION</b>	<b>NAME</b>	<b>SIGNATURE</b>	<b>DATE</b>
<b>OFFICER/EXECUTIVE (QUALITY ASSURANCE)</b>			

**REVIEWED BY:**

<b>DESIGNATION</b>	<b>NAME</b>	<b>SIGNATURE</b>	<b>DATE</b>
<b>HEAD (PRODUCTION)</b>			
<b>HEAD (ENGINEERING)</b>			

**APPROVED BY:**

<b>DESIGNATION</b>	<b>NAME</b>	<b>SIGNATURE</b>	<b>DATE</b>
<b>HEAD (QUALITY ASSURANCE)</b>			