

INSTALLATION QUALIFICATION PROTOCOL CUM REPORT FOR DEDUSTING TUNNEL

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EQUIPMENT ID. No.	
LOCATION	
DATE OF QUALIFICATION	
SUPERSEDE PROTOCOL No.	NIL



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1.0 PROTOCOL PRE – APPROVAL:

PREPARED BY:

DESIGNATION	NAME	SIGNATURE	DATE
OFFICER/EXECUTIVE (QUALITY ASSURANCE)			

REVIEWED BY:

DESIGNATION	NAME	SIGNATURE	DATE
OPERATING MANAGER (QUALITY ASSURANCE)			
HEAD (ENGINEERING)			
HEAD (WAREHOUSE)			

APPROVED BY:

DESIGNATION	NAME	SIGNATURE	DATE
HEAD (QUALITY ASSURANCE)			



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2.0 **OBJECTIVE:**

- To provide documented evidence for the Installation Qualification of De dusting Tunnel.
- To confirm that the equipment and its components are installed as per the Specifications mentioned in the design qualification document and other requirements given by supplier.

3.0 SCOPE:

- The scope of this installation qualification protocol cum report is limited to qualification of Dedusting Tunnel (Make:) to be installed at Raw Material Receiving Bay.
- This document provides all the relevant information related to specification, installation checks and acceptance criteria to be required to perform installation qualification activity of Dedusting Tunnel.



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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:

DEPARTMENTS	RESPONSIBILITIES	
Quality Assurance	 Preparation, Review, Authorization and Compilation of the Installation Qualification Protocol cum Report. Co-ordination with Production and Engineering to carryout Installation Qualification. Monitoring of Installation Qualification Activity. Post Approval of Qualification Protocol cum Report after Execution. 	
Warehouse	 Review & Pre Authorization of Installation Qualification Protocol cum Report. To Co-ordinate and support for Execution of Qualification study as per Protocol. Post Approval of Installation Qualification Protocol Cum Report after Execution. 	
Engineering	 Review & Pre Approval of Installation Qualification Protocol cum Report. Co-ordination, Execution and technical support in Installation Qualification Activity. Calibration of Process Instruments. Responsible for Trouble Shooting (if occurs during execution). Post Approval of Installation Qualification Protocol Cum report after Execution. 	



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5.0 EQUIPMENT DETAILS:

Equipment Name	De dusting Tunnel
Equipment ID.	
Manufacturer's Name	
Supplier's Name	
Model	
Serial Number	
Location of Installation	Raw Material Receiving Bay

6.0 SYSTEM DESCRIPTION:

De-dusting Tunnel is used for de-dusting the material containers at material receiving bay, the filtered air is delivered by the adjustable nozzles positioned on both sides and on the ceiling of the unit. The high velocity air jets remove most of the contamination dust from the outer surface of containers.

De-dusting tunnel is made of AISI 304 stainless steel casing. It is constructed by cutting, hemming, bending, spot welding and bolt junctioning where necessary. The welded pieces are strengthened by subsequent silicon sealing.

The electric control panel is placed outside the box and it is easy to reachable.

The filtered air is delivered by the adjustable nozzles positioned on both wall sides and on the ceiling of the unit. The high velocity air jets remove most of the contamination dust from the pallet that is positioned inside the box.

The air is drawn through the Pre & Fine-filter. The air flow rate and the nozzles position have been designed in order to assure that the pallet is completely invested by air jets.



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7.0 PRE – QUALIFICATION REQUIREMENTS:

7.1 Verification of Documents:

- Executed and approved design qualification document.
- 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 IQ Protocol cum Report.

7.1.2 Acceptance Criteria:

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



PHARMA DEVILS QUALITY ASSURANCE DEPARTMENT

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8.0 CRITICAL VARIABLES TO BE MET:

8.1 Installation Qualification Checklist:

INSTALLATION CHECKS	ACCEPTANCE CRITERIA	OBSERVATION (COMPLIES /NOT COMPLIES)	OBSERVED BY (ENGINEERING) SIGN/DATE
Grouting and	Should be properly		
Mounting	grouted and mounted.		
Leveling	Should be properly		
	balanced and leveled.		
Edges of parts	Metal parts should be		
	properly ground without		
	any sharp edges.		
Welding of Joints	Welding of joints should		
	be without any welding		
	burrs.		
Place of Installation	Raw Material Receiving		
	Bay		
Room Condition	RH : NMT 55 %		
	TEMP : NMT 25 °C		
Illumination	NLT 300 Lux		
Working space around	Should be sufficient for		
the Equipment.	easy operation, cleaning,		
and Equipments	sanitation and		
	maintenance.		

Checked By		
Warehouse		
Sign/Date:	•••	•

Verified By Quality Assurance Sign/Date:

Inference:

Reviewed By Manager QA Sign/Date:



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8.2 VERIFICATION OF UTILITIY REQUIREMENTS:

CRITICAL VARIABLES	ACCEPTANCE CRITERIA	OBSERVATION (COMPLIES /NOT COMPLIES)	OBSERVED BY (ENGINEERING) SIGN/DATE
Electrical Supply	Voltage : 415 V		
	Phase : 3 Phase		
	Frequency : $50 \text{ Hz} \pm$		
	10%.		
	Power consumption : 6 kW max		
Room Condition	Temperature NMT 25 °C		
	RH : NMT 55 %		

Checked By	
Warehouse	
Sign/Date:	•

Verified By Quality Assurance Sign/Date:

Sign/Date:

Inference:

•••••	•••••••••••••••••••••••••••••••••••••••
	Reviewed By Manager QA



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8.3 EQUIPMENT VERIFICATION

S.No.	Particular	Specification	Observation
Body	Structure		
1.	Model No.	CAS-55	
2.	Working Dimension (W x H x D)	1500 x 1500 x1300 mm	
	Fine Filter (Supply Air)		
	Qty.	01 No.	
	Make	Hygieno	
2	Size	1220 x 610 x 69 mm	
3.	Rating	EU 7	
	Efficiency	95% down to 3 micron	
	MOC of Frame	Aluminium	
	Туре	Box	
	Pre-Filter		
	Qty.	01 No.	
	Make	Hygieno	
4.	Size	550 x 550 x 50 mm	
4.	Filter Class	EU 5	
	Efficiency	95% down to 5 micron	
	MOC of Frame	Aluminum	
	Туре	Flange	
	Motor		
	Qty.	01 No.	
5.	Make	Cromptron	
	Rated Power	3 HP, 2850 RPM	
	Туре	Belt Drive	
	Blower		
	Qty.	01 Nos.	
6.	Make	Nicotra	
	Size	RLO 2831	
	Туре	Plug Fan	
7.	Exhaust Fan		



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S.No.	Particular	Specification	Observation
	Qty.	01 Nos.	
	Make	Chemietron	
	Size	12 inch Dia. With 0.5 H.P. motor	
	Туре	Exhaust Fan	
	Magnehelic gauge		
8.	Qty.	01 No.	
	Make	Dwyer	
	Range	0-10 mm of water	

Checked By Engineering Sign/Date: _____ Verified By Quality Assurance Sign/Date: _____

Inference:

Reviewed By Manager QA Sign/Date: _____



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8.4 SAFETY FEACHURE & ALARM :

Critical Variables	Acceptance Criteria	OBSERVATION (Complies /Not Complies)	OBSERVED BY (ENGINEERING) SIGN/DATE
Joints	Welding of joints without		
	any welding burrs		
Metal Parts	All the metal parts should be		
	Properly grind without any		
	sharp edges.		
Leveling and	Dedusting tunnel should be		
balancing	properly balanced & leveled		
Electrical wiring	Electrical wiring should be as		
and earthing	per approved drawings. Single		
	external Earthing to control		
	machine (panel and motors)		
	and operator should be		
	provided		
Emergency	Provided easy access position		
Switch			

Checked By Warehouse Sign/Date: Verified By Quality Assurance Sign/Date:

Inference:

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Reviewed By
Manager QA
Manager QA Sign/Date:

PHARMA DEVILS



QUALITY ASSURANCE DEPARTMENT

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9.0 REFERENCES:

- Design Qualification
- Vendor Documents

10.0 DOCUMENTS TO BE ATTACHED:

- Calibration certificates.
- Any other relevant documents.

11.0 DEVIATION FROM PRE-DEFINED SPECIFICATION IF, ANY:

12.0 CHANGE CONTROL, IF ANY:

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

14.0 CONCLUSION:



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15.0 RECOMMENDATION:

16.0 ABBREVIATIONS:

cGMP	:	Current Good Manufacturing Practice
DDT	:	Dedusting Tunnel
HP	:	Horse Power
Hz	:	Hertz
MCB	:	Miniature circuit breaker
mm	:	Millimeter
NLT	:	Not less than
NMT	:	Not More Than
RH	:	Relative Humidity
RPM	:	Revolution per minute
SS	:	Stainless steel



INSTALLATION QUALIFICATION PROTOCOL CUM REPORT FOR DEDUSTING TUNNEL

17.0 PROTOCOL POST- APPROVAL:

PREPARED BY:

DESIGNATION	NAME	SIGNATURE	DATE
OFFICER/EXECUTIVE (QUALITY ASSURANCE)			

REVIEWED BY:

DESIGNATION	NAME	SIGNATURE	DATE
OPERATING MANAGER (QUALITY ASSURANCE)			
HEAD (ENGINEERING)			
HEAD (WAREHOUSE)			

APPROVED BY:

DESIGNATION	NAME	SIGNATURE	DATE
HEAD (QUALITY ASSURANCE)			