



**INSTALLATION QUALIFICATION
PROTOCOL CUM REPORT
FOR
VIBRO SIFTER 30”**

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



INSTALLATION QUALIFICATION PROTOCOL CUM REPORT FOR VIBRO SIFTER 30”

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INSTALLATION QUALIFICATION PROTOCOL CUM REPORT FOR VIBRO SIFTER 30”

1.0 PRTOCOL PRE-APPROVAL:

INITIATED BY:

DESIGNATION	NAME	SIGNATURE	DATE
OFFICER/EXECUTIVE (QUALITY ASSURANCE)			

REVIEWED BY:

DESIGNATION	NAME	SIGNATURE	DATE
HEAD (PRODUCTION)			
HEAD (ENGINEERING)			

APPROVED BY:

DESIGNATION	NAME	SIGNATURE	DATE
HEAD (QUALITY ASSURANCE)			



INSTALLATION QUALIFICATION PROTOCOL CUM REPORT FOR VIBRO SIFTER 30”

2.0 OBJECTIVE:

- To provide documented evidence for the Installation Qualification of Vibro Sifter for
- 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 **Vibro Sifter 30” (Make – Elicon Pharma)** to be installed in the
- The Vibro Sifter is a standalone unit with plug in type electrical connections for operation and is on castor wheel. Hence, may be moved as per requirement to other area of operation which shall not change the performance of equipment.
- This document provides all the relevant information related to specification, installation checks and acceptance criteria to be required to perform installation qualification activity of Vibro sifter.



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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	<ul style="list-style-type: none">• Initiation, Review, Approval 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 Installation Qualification Protocol cum Report after Execution.
Production	<ul style="list-style-type: none">• Review & Pre Approval 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	<ul style="list-style-type: none">• Review & Pre Approval of Installation Qualification Protocol cum Report.• Co-ordination, Execution and technical support in Vibro Sifter Installation Qualification Activity.• 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	Vibro Sifter 30”
Equipment	
Manufacturer’s Name	Elicon Pharma
Model	cGMP Model
Supplier’s Name	Elicon Pharma
Location of Installation	

6.0 SYSTEM DESCRIPTION:

Vibro sifter is an efficient & compact unit self contained & mounted on castor wheels. Vibro sifter have circular unitary vibrating screen used for gradation of material & its proven records over the rotary or longitudinal movement used in the conventional type of sieving machine, both in term of output & uniform grading of materials. Specially designed motor with eccentric weights imparts vibratory motion to the hopper, which have a screen in between them. Material finer than the screen mesh pass through the screen & are collected in the bottom hopper. Coarse material is retained on top of the screen. The amplitude of vibration can be varied from minimum to maximum by adjusting the eccentric weights to suit the process requirement in base minimum time. The machine is generally as per enclosed specs & consists of:

- 1. Motor:** It is fitted with top & bottom eccentric weights designed as per required centrifugal force. This whole assembly is covered by SS plate. The motor is flanged mounted & is fixed on the mounting plate by hex. Bolts. The top weights are fixed on the output shaft over the mounting plate.
- 2. Spring:** the eight number chrome plated spring are fixed on the base flange at equi- distance. These springs are provided with the ends of the springs. The springs are then screwed on at both the bolts at one end to the base & on the mounting plate at the top. These rugged springs amplify the vibration & restrict them from being transmitted to the floor.
- 3. Hopper:** It is a cylindrical, flanged body with an inverted cone at the bottom. This is placed over the mounting plate. The bottom flange is used for clamping to the base plate with a rubber gasket in between the hopper & plate. Hopper is provided with an outlet, tangential to the periphery for discharge of sieved material. The top flange is to provide for holding the charging/ intermediated hopper with a sieve in between them. It is fabricated from stainless steel sheet and works for loading the materials for sifting.



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- 4. Screen:** based on the product size required a suitable screen is clamped in between the two hopper. Finer mesh sieves can be or with back up cross support to ensure longevity of sieve. This is recommended for sieves finer than 150 meshes.
- 5. Discharge port:** To collect the processed materials.
- 6. Conical shape top lid:** It is provided with charging port. Screen is fitted in between the hopper & top lid.

7.0 PRE – QUALIFICATION REQUIREMENTS:

7.1 Verification of Documents:

- Executed and approved design qualification document
- Piping and instrumentation diagram (P& ID)
- Electrical circuits diagram
- Technical specification of equipment
- Certificate of material of construction of components.

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.



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8.0 CRITICAL VARIABLES TO BE MET:

8.1 General Checks and Location Suitability:

INSTALLATION CHECKS	ACCEPTANCE CRITERIA	OBSERVATION	OBSERVED BY (ENGINEERING) SIGN/DATE
Leveling	Should be properly balanced and leveled		
Edges of parts	Metal parts should be properly grind without any sharp edges		
Welding of Joints	Welding of joints should be without any welding burrs		
Place of Installation	Granulation Area- 08		
Room Condition	General working condition		
Illumination in area	NLT 300 Lux.		
Working space around the equipment	Should be sufficient for easy operation, cleaning, sanitation and maintenance		

Checked By
(Production)
Sign/Date:

Verified By
(Quality Assurance)
Sign/Date:

Inference:

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Reviewed By
(Manager QA)
Sign/Date:



INSTALLATION QUALIFICATION PROTOCOL CUM REPORT FOR VIBRO SIFTER 30"

8.2 Equipment Verification:

INSTALLATION CHECKS	ACCEPTANCE CRITERIA	OBSERVATION	OBSERVED BY (ENGINEERING) SIGN/DATE
Equipment	Vibro Sifter		
Model	cGMP Model		
Capacity	30 Inch		

ELECTRICAL INSTALLATION:

Electricity	Voltage	415 V		
	Phases	3 Phase		
	Frequency	50 Hz		
Electrical connections have been provided and secured.	Should be provided & secured			
All components in the panel are properly secured	Should be properly secured			
All terminals are tightened	Should be tightened			
Earthing connection to control panel & equipment	Earthing connection to control panel & equipment should be provided.			

S. NO.	SPECIFICATION	OBSERVATION	OBSERVED BY SIGN/DATE
1.	The machine should positioned as per the room layout drawing		
2.	The machine should leveled		
3.	The machine should cleaned		
4.	Utility should properly connected		
5.	Visually check the M/C for damage due to transportation. Etc		

Checked By
(Production)
Sign/Date:

Verified By
(Quality Assurance)
Sign/Date:

Inference:

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Reviewed By
(Manager QA)
Sign/Date:



INSTALLATION QUALIFICATION PROTOCOL CUM REPORT FOR VIBRO SIFTER 30”

8.3 Installation Checks:

S.No.	SPECIFICATION	OBSERVATION	OBSERVED BY (ENGINEERING) SIGN/DATE
1.	Check the proper Mechanical installation of Vibro Sifter.		
2.	Check the proper electrical installation of Vibro Sifter.		
3.	Check the parts are working properly		
4.	Check the equipment is free from any defects		
5.	Check the finishing of product contact parts		
6.	Check that all parts are getting lubricated		

Checked By
(Production)
Sign/Date:

Verified By
(Quality Assurance)
Sign/Date:

Inference:

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Reviewed By
(Manager QA)
Sign/Date:



INSTALLATION QUALIFICATION PROTOCOL CUM REPORT FOR VIBRO SIFTER 30”

8.4 MOC Verification List:

COMPONENT	MOC	OBSERVATION	OBSERVED BY (ENGINEERING) SIGN/DATE
Top Lid	AISI 316		
Top Deck	AISI 316		
Bottom Deck	AISI 316		
Mesh	AISI 316		
Base	AISI 316		
‘C’ - Clamp	AISI 316		
Gasket	White Food Grade		
Spring	AISI 304		
Motor Mounting Plate	MS		
Motor	STD		
Castor Wheel	Polyurethane		

Checked By
(Production)
Sign/Date:

Verified By
(Quality Assurance)
Sign/Date:

Inference:

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Reviewed By
(Manager QA)
Sign/Date:



INSTALLATION QUALIFICATION PROTOCOL CUM REPORT FOR VIBRO SIFTER 30”

8.5 EQUIPMENT VERIFICATION

S.No.	NAME OF COMPONENTS	ACCEPTANCE CRITERIA	OBSERVATION	OBSERVED BY (ENGINEERING) SIGN/DATE
1.	Model	cGMP.		
2.	All contact parts	AISI 316		
3.	All non-contact Parts	AISI 304		
4.	Capacity	Std.		
5.	Dimension (in mm)	1300 (W) x 800 (D) x 1250 (H)		
6.	Charging height	Approx.: 1350 mm,		
7.	Discharging height	Approx.: 780 mm,		
8.	Electric motor	Make : VIKRANT Type : vibratory H.P : 0.5 H.P RPM : 1440 Volt : 415± 10 V Amp : 1.2		
9.	Screen Diameter	750 mm		

Checked By
(Production)
Sign/Date:

Verified By
(Quality Assurance)
Sign/Date:

Inference:

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Reviewed By
(Manager QA)
Sign/Date:



PHARMA DEVILS
QUALITY ASSURANCE DEPARTMENT

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8.6 Safety:

CHECKS	ACCEPTANCE CRITERIA	OBSERVATION	OBSERVED BY ENGINEERING SIGN/DATE
Well embedded equipment	For proper sifting		
Electrical wiring and Earthing	Electrical wiring should be as per approved drawings. Double external earthing to control machine (panel and motors).		
Guards	Guards for all moving parts		
	Should be provided For Motor safety		
Start On/Off switch: To stop the process immediately	Should be provided For equipment and operator safety		

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.

10.0 DOCUMENTS TO BE ATTACHED:

- Technical details for Equipment Requirement with Engineering Drawings.
- Certificate of MOC
- Operation and Maintenance Manual

11.0 DEVIATION FROM PRE-DEFINED 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:

Amp.	:	Ampere
cGEP	:	Current Good Engineering Practices
cGMP	:	Current Good Manufacturing Practices
CQA	:	Corporate Quality Assurance
GB	:	General Block
HP	:	Horse power
ID.	:	Identification
IQ	:	Installation Qualification
Kg	:	Kilo gram
KW	:	Kilo watt
MCB	:	Miniature Circuit Break
mm	:	Mili meter
MOC	:	Material of construction
NLT	:	Not less than
No.	:	Number
QA	:	Quality Assurance
SS	:	Stainless Steel
VSF	:	Vibro Sifter
WHO	:	World Health Organization



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17.0 PROTOCOL POST APPROVAL:

INITIATED BY:

DESIGNATION	NAME	SIGNATURE	DATE
OFFICER/EXECUTIVE (QUALITY ASSURANCE)			

REVIEWED BY:

DESIGNATION	NAME	SIGNATURE	DATE
HEAD (PRODUCTION)			
HEAD (ENGINEERING)			

APPROVED BY:

DESIGNATION	NAME	SIGNATURE	DATE
HEAD (QUALITY ASSURANCE)			