

QUALITY ASSURANCE DEPARTMENT

INSTALLATION QUALIFICATION PROTOCOL CUM REPORT FOR PACKING CONVEYOR

INSTALLATION QUALIFICATION PROTOCOL CUM REPORT FOR PACKING CONVEYOR

EQUIPMENT ID. No.	
LOCATION	Packing Hall
DATE OF QUALIFICATION	
SUPERSEDES PROTOCOL No.	NIL



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1.0 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)			



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2.0 OBJECTIVE:

- To carry out the Installation Qualification of Packing Conveyor to online operation/transfer of vials from one area to another or from one machine to another.
- To confirm that the equipment and its components are as per the Specifications and installed as per the Approved Design and complies with cGMP practices.
- To ensure that there is sufficient information available to operate and maintain the equipment safely, effectively and consistently.

3.0 SCOPE:

- The scope of this installation qualification protocol cum report is limited to qualification of **Packing** Conveyor (Make:).
- This document provides all the relevant information related to specification, installation checks and acceptance criteria to be required for installation qualification activity.



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



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5.0 EQUIPMENT DETAILS:

Equipment Name	Packing Conveyor
Equipment	
Manufacturer's Name	Punchtab Engineering Private Limited
Supplier's Name	Punchtab Engineering Private Limited
Location of Installation	Packing Hall

6.0 SYSTEM DESCRIPTION:

Packing Conveyor is suitable for online operation/transfer of packing material from one area to another or from one machine to another. Packing Conveyor can also be used to adjust the packing area length with other machines. Packing conveyor is suitable for easy movement of material or operator.

The conveyor system is available in various speed ranges with option of fixed speed or variable speed drive system using AC Variable frequency drive system.

The conveyor belt brings the container or products from the labeling/ blister/ strip machine, operator in turn pickup. These bottles/ products & visually inspect the bottles/ products & doing necessary action like primary packing, secondary packing, picking & placing at proper place.



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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.
- Calibration Certificate of Components.
- 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 Installation Qualification Checklist:

S.No.	Installation Check	Observation	Observed by (Engineering) Sign/Date
1.	Check the proper mechanical		
	installation of Packing Conveyor.		
2.	Check the proper electrical		
	installation of Packing Conveyor		
3.	Check the parts are working		
	properly.		
4.	Check the equipment is free from		
	any defects.		
5.	Check the finishing of machine		
	parts.		

Checked By (Production) Sign/Date:	Verified By (Quality Assurance) Sign/Date:
Inference:	
	Reviewed By (Manager QA) Sign/Date:



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8.2 General Checks and Location Suitability:

S.No.	Installation Checks	Acceptance Criteria	Observation	Observed by (Engineering) Sign/Date
1.	Grouting and	Should be grouted and		
	Mounting	mounted properly.		
2.	Leveling	Should be properly		
		balanced and leveled.		
3.	Edges of Parts	Metal edges should be		
		properly rounded off		
		without any sharp edges.		
4.	Welding of Joints	Welding of joints should		
		be without any welding		
		burrs.		
5.	Place of Installation	Packing Hall		
6.	Room Condition	General working condition.		
		As per GMP and		
		production requirement.		
7.	Illumination	NLT 300 Lux.		
8.	Working space	Should be sufficient for		
	around the equipment	easy operation, cleaning,		
		sanitation and		
		maintenance.		
Check	Checked By Verified By			

7.	Illumination	NLT 300 Lux.		
8.	Working space	Should be sufficient for		
	around the equipment	easy operation, cleaning,		
		sanitation and		
		maintenance.		
Check	•		Verified By	
•	ıction) Date:		(Quality Assurance Sign/Date:	
Infere	nce:			
				•••••
			Reviewed By	
			(Manager QA) Sign/Date:	
			-	•



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8.3 Installation Checks:

Critical Variables	Acceptance Criteria	Observation	Observed By (Engineering) Sign/Date
Overall	3060 (L) mm X 866 (W) mm X 800		
Dimension	(H) mm		
Conveyor Dimension	3050 (L) mm X 280 (W) mm		
Direction of Movement	Left to Right		
Main Motor	Make : Bonfiglioli Riduttori		
	Type : 03 Phase Induction		
	Motor		
	Sr. No. : 797225		
	Code : 830720106		
	Electric Supply: 50 Hz,		
	0.37 kW,		
	1.82-1.05 A,		
	1370 RPM.		
	Electric Supply: 60 Hz,		
	0.45 kW,		
	1.09 A,		
	1660 RPM.		
Gear Box	Make : Bonfiglioli Group		
	Type : VF49F1P71B5		
	Code : 1177654+797225		
ON/OFF Push	ON : Green		
Botton	OFF : Red		
	Make : "BENTEX"		

Checked By (Production) Sign/Date:	Verified By (Quality Assurance) Sign/Data:
Sign/Date: Inference:	Sign/Date:
	Reviewed By (Manager QA) Sign/Date:



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8.4 MOC Verification List:

S. No.	Parts Name	Material of construction	Observation	Observed By (Engineering) Sign/Date
1.	Motor	STD		
2.	Gear box	STD		
3.	Conveyor	Delrin		
4.	Machine Frame	SS 304		

(Quality Assurance) Sign/Date:
Reviewed By
(Manager QA)



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8.5 Safety:

Checks	Acceptance Criteria	Observation	Observed By (Engineering) Sign/Date
Well embedded equipment	For Packing Conveyor.		
MCB	MCB is provided so that		
	when there is an overload in		
	current or any short circuit		
	then the MCB trips.		
Electrical wiring and	Electrical wiring should be as		
Earthing.	per approved drawings.		
	Double external earthing to		
	control machine panel and		
	motors should be provided.		
Safety Guards	Guards for all moving parts		
	should be provided for safety.		
Start On/Off switch: To	Should be provided for		
Stop the process	equipment and operator		
immediately.	safety.		
Noise Level	Below 80 db		

Checked By (Production) Sign/Date:	Verified By (Quality Assurance) Sign/Date:
Inference:	
	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.
- Calibration certificates.
- Operation and Maintenance Manual.



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11.0	DEVIATION FROM PRE-DEFINED SPECIFICATION IF, ANY:			
12.0	CHANGE CONTROL, IF ANY:			
13.0	REVIEW (INCLUSIVE OF FOLLOW UP ACTION, IF ANY):			



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14.0	CONCLUSION:
15.0	RECOMMENDATION:



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16.0 ABBREVIATIONS:

No. : Number

WHO : World Health Organization

FDA : Food and Drug Administration

MOC : Material of construction

cGMP : Current Good Manufacturing Practices

EU : European Union

DQ : Design Qualification

IQ : Installation Qualification

mm : Millimetre

MCB : Miniature Circuit Breaker

RPM : Revolution per Minute

SS : Stainless Steel

HP : Horse Power

AMP : Ampere STD : Standard



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17.0 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)			