



PHARMA DEVILS

**USER REQUIREMENT SPECIFICATION
FOR
VIAL SEALING MACHINE**

URS No.:

**USER REQUIREMENT
SPECIFICATION
FOR
VIAL SEALING MACHINE**

LOCATION:	DRY POWDER LINE
SUPERSEDES URS NO.	NIL



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1.0 PROTOCOL 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:

- The User Requirements Specification (URS) is provided to aid the user through the critical aspects of Fabrication, Facility for Installation of Required Equipments, Cleaning/Proper Maintenance, cGMP, Safety and Regulatory Requirements necessary to construct and fabricate a functional Vial Sealing machine that meets the user's needs in the most cost-effective method possible.
- The URS to be provided to Vendor to submit a Price Quote for procurement of Vial Sealing machine.
- The URS shall help Vendor in understanding the end user requirement in details. This document shall help vendor for developing the Design Specification, which on approval by the Site will become a Contractual Agreement between vendor and the Site.
- This URS shall be recognized as an integral part of the procurement agreement with the vendor. The vendor will abide by the information and conditions set forth by this document as well as the Standard Purchase Terms and Conditions of the Site.

3.0 SCOPE:

- The Scope of this document is limited to the User Requirement Specification (URS) of Vial Sealing machine of the Site.
- The URS shall be used as a reference document for Design Qualification considering all aspects of Current Good Manufacturing Practices (cGMP) and safety.



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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 URS:

DEPARTMENTS	RESPONSIBILITIES
Quality Assurance	<ul style="list-style-type: none">• Preparation, Review, and Approval of User Requirement Specification.• Co-ordination with Production, Engineering and Quality Control to prepare User Requirement Specification.• To check the completeness and Technical Accuracy of the URS.
Production	<ul style="list-style-type: none">• Review of User Requirement Specification for compliance with the Process Requirement.
Engineering	<ul style="list-style-type: none">• Review of User Requirement Specification.• Assist in preparation of User Requirement Specification.



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5.0

GMP / REGULATORY REQUIREMENTS:

The purpose of Vial Sealing machine is to cap sealing for different size of vial wash the inner and outer surface of round shaped Vials before filling operation.

Vial Sealing machine shall comply to the “Current Good Manufacturing Practices”.

- WHO GMP - “Good Manufacturing Practices for Pharmaceutical Products”.
- Schedule –M–“Good Manufacturing Practices and Requirements of Premises, Plant and Equipment for Pharmaceutical Products.”



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6.0 SYSTEM OVERVIEW:

Vial Sealing machine shall be able to cap sealing for different size of vial. The equipment has four head for the capping action. The filled vials from the vial filling machine are conveyed through the conveyor and enter into the feed worm; same will pick-up the vial and place into the star wheel where the vials pick up the caps from the cap-releasing shoe.

6.1 TECHNICAL SPECIFICATION:

S.No.	SYSTEM DESCRIPTION	MOC	TECHNICAL SPECIFICATION
1.	Model	-----	As per system requirement
	Dimensions	-----	As per system requirement
	No. of Sealing Head	-----	04
	Capacity	-----	Up to 60 - 90 Vials/minute.
2.	Motor		
	Quantity	-----	As per system requirement
	RPM	-----	As per system requirement
	kW	-----	As per system requirement
3.	Gear Box		
	Make	-----	As per system requirement
	Model	-----	As per system requirement
	Size	-----	As per system requirement
4.	Indicators		
	Nos.	-----	02 (01 Green for Power ON & Red for Clutch)
	Type	-----	Led Indicators
5.	On/Off Main Switch	-----	Should be provided as per system requirement
6.	Start/ Stop Switch	-----	Should be provided as per system requirement
7.	Change Parts	-----	Should be provided as per system requirement
8.	Vibration Controller		
	Nos.	-----	01



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S.No.	SYSTEM DESCRIPTION	MOC	TECHNICAL SPECIFICATION
	Vibratory Cap Hopper (Bowl)	-----	01

7.0 OTHER REQUIREMENTS AND CONSTRAINTS:

7.1 LAY OUT:

- Should accommodate Size of equipments, utility services to be provided, Operating space and clearance for maintenance activity.
- Should be suitable such that after placement of equipments in the area the scope for personal movement and maintenance activity is not disturbed.

7.2 FUNCTIONAL REQUIREMENTS:

- Vial Sealing machine shall comply with the “Current Good Manufacturing Practices”.

7.3 UTILITY REQUIREMENTS:

- System shall accept Three Phase 415 ± 10% V supplies.

7.4 SAFETY REQUIREMENTS:

- Emergency push button shall be provided.
- Electric panels shall not have any unsecured joints.
- Double earthing shall be provided for all electrically operated equipments.
- Noise pollution shall be kept below 80 db.

7.5 MAINTENANCE:

- The Equipment shall allow for maintenance by trained site personnel with supplier recommended tools and practices.
- Recommended spare parts list shall be provided.
- The supplier shall provide all spare parts at the production site before the start of Vial Sealing machine.
- The supplier shall replace the parts found to be damaged/ broken during installation.
- The supplier shall be available at the site when asked in case of major breakdown.



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8.0 LIFE CYCLE

8.1 DEVELOPMENT:

- The supplier shall follow cGMP practices in design, development, construction and Installation of the system.

8.2 TESTING:

- The system shall be Factory tested by the supplier with approval witness.
- The system shall be commissioned and qualified at site for Installation and Operation by the supplier with approval witness.

8.3 SUPPORT

- Supplier shall provide support for Preventive maintenance plan development, Operator training, Cleaning of the equipment etc.

8.4 DELIVERY

- All parts of the system shall be sourced, delivered and installed by the Supplier.

9.0 REVIEW / COMMENTS:

- The supplier should make/design the Vial Sealing machine. machine as per technical specification mentioned in the URS.
- For any changes in the design/make of the Vial Sealing machine. machine, if not as per the URS, prior intimation/approval should be taken by the supplier from the Site.
- All parts should have MOC certificates, test certificates, Calibration certificates for traceability and authenticity.

Approved By
Head - QA
Sign & Date



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10.0 ABBREVIATIONS:

URS	:	User Requirement Specification
cGMP	:	Current Good Manufacturing Practices
ISPE	:	International Society of Pharmaceutical Engineering
cGEP	:	Current Good Engineering Practices
DQ	:	Design Qualification
IQ	:	Installation Qualification
OQ	:	Operational Qualification
SS	:	Stainless Steel
WHO	:	World Health Organization
PO	:	Purchase Order
VSM	:	Vial Sealing machine. Machine