



VALIDATION PLAN FOR COMPUTER SYSTEM OF PM STORE

System Name: PM Store

System ID:

**VALIDATION PLAN
FOR
COMPUTER SYSTEM OF
PM STORE**

System Name	PMSTORE
System ID	
Location	STORE OFFICE
Effective Date	



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1. PREPARATION AND APPROVALS:

The signature listed below indicates the preparation and approval of this Validation Plan. This approval is joint responsibility of listed functional areas.

DOCUMENT DEVELOPMENT	SIGN / DATE
Name : _____ Designation : _____	

DOCUMENT REVIEW AND APPROVAL (M/S)	
Sign / Date : _____ Name : _____ Designation : _____ Engineering	
Sign / Date : _____ Name : _____ Designation : _____ IT	
Sign / Date : _____ Name : _____ Designation : _____ Warehouse	

DOCUMENT APPROVAL (M/S)	
Sign / Date : _____ Name : _____ Designation : _____ Quality Assurance	



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2. SIGNATURE OF EXECUTOR:

All the executor involved in these documents have to sign within prescribed format given below.

M/s

Name	Designation	Signature	Initial	Date

M/s

Name	Designation	Signature	Initial	Date

3. REVISION HISTORY:

Date	Supersedes	Reason for Revision



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4. OBJECTIVE:

The objective of Validation Plan is to provide an organization approach towards the validation activities for the Computer System hardware and software of Warehouse Department PM STORE. This document will define the requirement and standards that must be followed for all the validation activities as apply to the Computer System of Warehouse.

5. SCOPE:

This document is applicable to validation of Hardware and Software system of Computer System (PM STORE). This document shall define the test procedures, documentation, references and acceptance criteria in accordance with the guidelines laid down by the manufacturer of the system.

6. SYSTEM DESCRIPTION:

Computer system of Warehouse defines to the system is use for Analyzing PM STORE data. Perform an array of functions that may include receiving and processing incoming stock and materials, picking and filling orders from stock, packing and shipping orders, or managing, organizing and retrieving stock in the Warehouse. This system is also use to mailing for document per pass, ERP (Enterprise resource planning) for management information system integrates areas. Control panel and other external device disable for this system to protect data and piracy and Data store within the system.



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7. ROLE AND RESPONSIBILITY:

The validation team comprising of representative from each of the following departments should be responsible for overall compliance with this validation plan.

Department	Responsibilities
Validation Agency (.....)	<ul style="list-style-type: none">➤ To collect the necessary data for qualification activities.➤ To prepare the Validation Plan, Risk Assessment, Installation Qualification, Operational Qualification, Traceability Matrix and Validation Summary Report.➤ To execute the qualification in coordination with engineering, validation and quality assurance team.➤ Comply with regulatory / Guidelines / Standards / validation plan requirements throughout the validation life cycle.➤ To submit qualification for approval.
Engineering (M/s.)	<ul style="list-style-type: none">➤ To provide the necessary data for system requirement specification activities.➤ To review Validation Plan.
IT (M/s.)	<ul style="list-style-type: none">➤ To provide the necessary data for system requirement specification activities.➤ To review Validation Plan.
Warehouse (M/s.)	<ul style="list-style-type: none">➤ To provide the necessary data for system requirement specification activities.➤ To review Validation Plan.
Quality Assurance (M/s.)	<ul style="list-style-type: none">➤ To approve and authorized the Validation Plan.



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8. REFERENCES:

The publication listed below form part of this reference documents. Each publication shall have latest revision in effect on the date of this document is approved for execution.

GAMP 5	Good Automated Manufacturing Practices, Version 5, Guideline Document for Automated Systems from International Society of Pharmaceutical Engineering
21 Code of Federal Regulations (CFR), Part 210	Current Good Manufacturing Practice in Manufacturing, Processing, Packing, or Holding off Drugs; General
21 Code of Federal Regulations (CFR), Part 211	Current Good Manufacturing Practice for finished Pharmaceuticals
21 Code of Federal Regulations (CFR), Part 11	21 Code of Federal Regulations (CFR), Part 11 Electronic Records, Electronic Signatures, Final Rule Electronic Submissions; Establishment of Public Docket, Notice
ICH Q9	International Conference of Harmonization (ICH) quality risk assessment Q9
EU GMP	Laying down the principles and guidelines of GMP in respect of medicinal products for human use.
WHO	Appendix 5, validation of computerized systems.

9. DOCUMENTATION PROCEDURE:

- Qualification activities will be performed as defined in the approved document.
- All documentation will be completed during the execution of the qualification.
- Recording of information will be made in permanent ink.
- Fill out complete information in the verification table provided.
- Do not keep any space blank. Mark blank space with a single line throughout the appropriate space with mentioning NA (Not Applicable) and put initial and date.
- Correct the mistakes by drawing a single line through the incorrect data, recording the correct information and then initial sign and date the change.



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10. QUALIFICATION COMPLETION AND APPROVAL:

- Verify that all tests required by qualification are completed and attached.
- Verify that all amendments and discrepancies are documented, approved and attached.
- If all items in the qualification for the Computer System of Warehouse have been reviewed and found to be acceptable, sign the corresponding block in the qualification completion and approval form.

11. ACCEPTANCE CRITERIA:

- Installation completion as per manufacturer's recommendations & cGMP requirements.
- The supply of all necessary documentation from manufacturer/Installer.
- The system is operating as intended and is under state of control.
- Operational features meet system requirements and system specifications.

12. DOCUMENTATION MANAGEMENT:

All quality and project relevant documents delivered by are handled through’s document management system. Each document has a unique ID and is version. The identification number of a document has the following structure:

<.....>-<Project No.>-<Document Name>-Version

The author's name, the file name, the document number (document code and Revision No.) and the total pages number are included in the document footer in order to clearly assign each page to a certain document.



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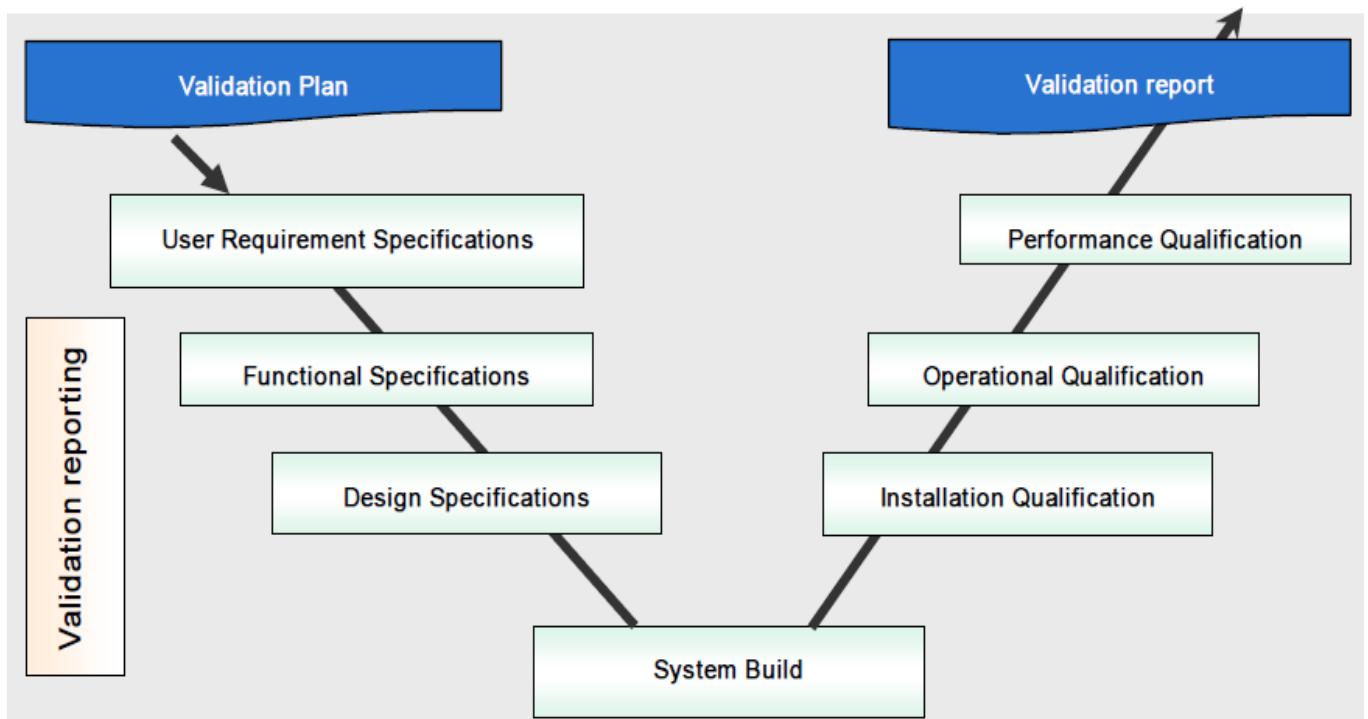
System ID:

13. REFERENCE DOCUMENTS:

- a. System requirement specifications
 - System operation manual
 - System bill of material

14. V-MODEL OF GAMP:

The system development life cycle is based on the GAMP-5 development life cycle and the ISPE baseline for validation.





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15. VALIDATION APPROACH:

For the validation, GAMP 5 guidelines have been considered. As per GAMP Software Life Cycle approach is considered for all automated control systems. The following table depicts categorization of various software systems as per GAMP 5.

The system categorization is intended to evaluate and determine appropriate validation activities and deliverables. Once a system is evaluated as a whole, the functionality of individual components can be assessed for potential risk to data integrity and tested accordingly.

In determining the system categorization, functionality and intended use of the system are to be considered.

Category	Software Type	Validation Approach
1	Infrastructure Software	<ul style="list-style-type: none">Record version numberverify correct installation by following approved installation procedures.
3	Non-configured Software e.g. Firmware based application COTS software Instruments	<ul style="list-style-type: none">Abbreviated Lifecycle approachRisk based approach to supplier assessmentRecord version (and configuration of environment) and verify correct installation.Risk based tests against requirements. (calibrations for instruments)Procedures in place for maintaining compliance and fitness for intended use.
4	Configurable Software Packages, e.g. DAS IPC ERP DCS BMS LIMS HMI	<ul style="list-style-type: none">Life Cycle approachRisk based approach to supplier assessment.Record version number, verify correct installationRisk based testing to demonstrate applicable works as designed in a test environment and within the business process.Procedure in place for maintaining compliance and fitness for intended use.Procedures in place for managing data.
5	Custom Software e.g. internally or externally developed IT applications. Custom ladder logic Spreadsheets (macro)	Same as configurable, plus: <ul style="list-style-type: none">More rigorous supplier assessment.Possession of full life cycle documentationDesign and source code review



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16. CATEGORIZATION OF THE CONTROL SYSTEM:

16.1 Computer System

The Computer control system falls under the **Category-1** Infrastructure software package as defined by **GAMP-5** guidelines. hence, verification & configuration and testing of operation against user requirement will be performed.

16.2 Hardware Category and Software Category

- Hardware Category 1 - Standard hardware component
- Hardware Category 2 - Custom built hardware component

Category	GAMP-4	GAMP-5
1	Operating Software	Infrastructure Software
2	Firmware	No longer used
3	Standard Software	Non configured Software
4	Configurable Software	Configured Software
5	Custom Software	Custom Software

17. DOCUMENT SCOPE:

The documents scope of this validation plan is to establish the project framework for carrying out quality assurance and project management measures impacting and M/s for the project as described. The documents scope should define the activities to be performed, which will perform them, the control mechanisms to be used and the deliverables

- Validation Plan
- System Requirement Specification
- Risk Assessment Protocol
- Installation Qualification
- Operation Qualification
- Traceability Matrix
- Validation Summary Report



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17.1 Risk Assessment:

Definition	This document is to provide the analyses the risk of utilization of the Computer System of Warehouse as per the cGMP and GxP and to identify the possible areas of risk where the existing laid down appropriate controls or measures requires further strengthening. To suggest suitable solutions (action plan) to mitigate or minimize the risk.
Phase	Designing
Control	Review
Executor	Validation Team
Prerequisites	SRS is approved
Acceptance	M/s
Outcomes	Risk Assessment

17.2 Installation Qualification:

Definition	<p>The objective of the installation qualification test is to verify the Computer System of Warehouse installed at the M/s</p> <p>This includes the following tests:</p> <ul style="list-style-type: none">• Identification of System Details• Verification of Master Documents for computer system• Verification of capacity Requirement of computer system• Verification of Hardware Components• Verification of Software Components• Verification of Physical and Logical Security Control• Verification of Test Instruments Calibration and it's Traceability• Verification of Power Supply• Verification of Environmental Condition
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	<ul style="list-style-type: none"> • Verification of Communication Link Between Server to Computer System • Verification of General System Installation
Phase	Commissioning
Control	Review
Executor	Validation Team
Prerequisites	Risk Assessment is Pre approved
Acceptance	M/s
Outcomes	Installation Qualification

17.3 Operational Qualification:

Definition	<p>The objective of the operational qualification test is to verify the function of Computer System of Warehouse installed at the M/s</p> <p>This includes the following tests:</p> <ul style="list-style-type: none"> • Verification of Windows Security • Verification of System Start-up & Shutdown • Verification of System Response Failure. • Verification of Electronic Data Security. • Verification of User Prevented from Alternating Date and Time. • Verification of Data Back Up.
Phase	Commissioning
Control	Review
Executor	Validation Team
Prerequisites	Risk Assessment is Pre approved
Acceptance	M/s
Outcomes	Installation Qualification



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17.4 Traceability Matrix:

Definition	The traceability matrix is to provide the assurance that mapped between IQ and OQ. The traceability matrix contains all the traceability mentioned in system requirement specifications.
Phase	Commissioning
Control	Review
Executor	Validation Team
Prerequisites	SRS, IQ and OQ is approved
Acceptance	M/s
Outcomes	Traceability Matrix

17.5 Validation Summary Report:

Definition	This validation summary report is to collect sufficient data and the qualification executed pertaining to the Computer System of Warehouse. Successful completion of this document will provide the successfully validated of the Computer System of Warehouse. This report describes the successful validation qualification for the Computer System of Warehouse.
Phase	Commissioning
Control	Review
Executor	Validation Team
Prerequisites	IQ and OQ is approved
Acceptance	M/s
Outcomes	Validation Summary Report



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18. CHANGE CONTROL:

All changes in the control system during the validation activities shall be handled as per the change control SOP.

19. MAINTENANCE AND SUPPORT:

The Computer System of Warehouse and its associated components shall be incorporated into the planned preventive maintenance activities. Any software changes, which shall be required and any upgrades in hardware and operating system software shall be carefully controlled and all documentation maintained as per prevailing change control procedures.

20. STANDARD OPERATING PROCEDURE:

A number of SOP's will be developed for the operations that support the control systems during this validation exercise. Each SOP is listed below.

- Change Control
- System operation



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21. DISCREPANCIES HANDLING DURING COMPUTER SYSTEM QUALIFICATION:

- In case of discrepancy observed during qualification, document in the defined column in each table and document the details of the observation in the discrepancy log sheet.
- Inform to engineering IT and quality assurance about discrepancy.
- Investigate the discrepancy and ensure the possible impact.
- If discrepancy does not have potential to impact on operation as well as performance of the system, close the discrepancy with proper justification.
- The engineering, IT and QA will decide whether discrepancy is acceptable or not.
- If discrepancy is acceptable, provide conclusion and recommendation if any into respective column.



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DISCREPANCY AND CORRECTIVE ACTION FORM:

Protocol Reference	
Discrepancy Number	

DISCREPANCY:

Describe the Discrepancy	
Reported by	Date

CORRECTIVE ACTION:

Describe corrective action taken (Attach additional sheets if necessary)	
Reported by	Date

DISPOSITION ACTION:

Acceptable?	Yes	No
Discussion		
Approved by	Date	

COMPLETION:

Completed by	Date
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22. APPROVAL AND DELIVERABLES:

The complete validation is governed by a series of quality assurance measures. The following table lists the validation deliverables. It is assumed that all documents are submitted by as required.

Deliverable	Original Location	Validation Agency (Developer)	M/S (Reviewer)	M/S (Reviewer)	M/S (Reviewer)	M/S (Approver)
Validation Plan	Validation Dept.	Engineering	IT	Warehouse	Quality Assurance
System Requirement Specification						
Risk Assessment Protocol						
Installation Qualification						
Operational Qualification						
Traceability Matrix						
Validation Summary Report						



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23. ABBREVIATION:

Abbreviations	Description
GMP	Good Manufacturing Practices
SRS	System Requirement Specification
RA	Risk Assessment
IQ	Installation Qualification
OQ	Operation Qualification
QA	Quality Assurance
TM	Traceability Matrix
VSR	Validation Summary Report
SOP	Standard Operating Procedure
NA	Not Applicable
IO	Input Output
ICH	International Conference of Harmonization
CS	Computer System
ID	Identification
WHO	World Health Organization