

QUALITY ASSURANCE DEPARTMENT

INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

System Name: FTIR	System ID:
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INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM OF

FTIR

System Name	FTIR
System ID	
Location	Instrument Lab
Effective Date	

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QUALITY ASSURANCE DEPARTMENT

INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

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1. PRE APPROVALS:

The signature listed below indicates the preapproval of this installation qualification. This approval is joint responsibility of listed functional areas.

	DOCUMENT DEVELOPMENT	SIGN / DATE
Name	:	
Designation	:	
		-
	DOCUMENT REVIEW AND API	PROVAL (M/S)
Sign / Date	:	
Name	:	
Designation	:	
	Engineering	
Sign / Date	:	
Name	:	
Designation	:	
	IT	
Sign / Date	:	
Name	:	
Designation	:	
	Quality Control	
	DOCUMENT APPROVAL	(M/S)
Sign / Date	:	
Name	:	
Designation	:	
	Quality Assurance	
1		

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2. SIGNATURE OF EXECUTOR: All the executer involved in this document have to sign within prescribed format given below. M/s	System ID: 2. SIGNATURE OF EXECUTOR: All the executer involved in this document have to sign within prescribed format given below. M/s	Signature OF EXECUTOR: All the executer involved in this document have to sign within prescribed format given below. M/s	System Name: FTIR System ID: 2. SIGNATURE OF EXECUTOR: All the executer involved in this document have to sign within prescribed format given below. M/s	2. SIGNATURE OF EXECUTOR: All the executer involved in this document have to sign within prescribed format given below. M/s	INTERNAL SEANS				<u> </u>
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					Name	Designation	Signature	Initial	Date
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					Date	Supersedes	I	Reason for Revision	on

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INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

System Name: FTIR System ID:

4. OBJECTIVE:

5. SCOPE:

6. SYSTEM DESCRIPTION:

Computer system of FTIR defines the controlling of analytical instrument connected to the system. It controlled the process of instrument connected to it by the software installed in the CS. The operator interface is carried out by CS screen. The CS is used to feed required parameters and set points in the system during operation. The system is connected to data server for printing and data backup. The system is secured by IT through password only within the system.

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INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

System Name: FTIR System ID:

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 ()	 To collect the necessary data for installation qualification activities. To prepare and execute the installation 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 installation qualification for approval.
Engineering (M/s)	 To provide the necessary data for installation qualification activities. To review the installation qualification.
IT (M/s)	 To provide the necessary data for installation qualification activities. To review the installation qualification.
Quality Control (M/s)	 To provide the necessary data for installation qualification activities. To review the installation qualification.
Quality Assurance (M/s)	> To approve and authorized the installation qualification.

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INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

System Name: FTIR System ID:

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.

	Good Automated Manufacturing Practices, Version 5, Guideline
GAMP 5	Document for Automated Systems from International Society of
	Pharmaceutical Engineering
21 Code of Federal	Current Good Manufacturing Practice in Manufacturing, Processing,
Regulations (CFR), Part 210	Packing, or Holding off Drugs; General
21 Code of Federal	Current Good Manufacturing Practice for finished Pharmaceuticals
Regulations (CFR), Part 211	
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.
SRS	System Requirement Specification
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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INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

System Name: FTIR System ID:

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 validation to Hardware and Software system of FTIR 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.
- Installation of major components as per the design specifications.
- The supply of all necessary documentation from manufacturer.

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System ID:

12. INSTALLATION VERIFICATION TEST:

12.1 Identification of System Details

Objective : This test sheet is intended to verification of equipment details.

Tools Required : Not Applicable

Procedure : 1. Record Equipment Name

2. Record Identification No.

3. Record Equipment Location

Acceptance : Data recorded from the equipment shall match with the data specified in

Criteria verification table.

Verification Table:

Equipment Details	Specified As	As observed	Discrepancy? (Y/N)
Equipment Name	FTIR		
Identification No.	UXB1JSI572H1867792		
Location	Instrument Lab		

s:				
Meet the accep	otance Criteria [] Yes [] No	
Checked by	:			Date:
Verified by	:			Date:

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INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

System Name: FTIR	System ID:
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12.2 Verification of Master Documents:

Objective : To verify the availability of related master documents.

Tools Required : Not Applicable

Procedure : 1. Verify Documents Name.

2. Verify Documents Reference.

3. Verify Documents Availability.

Acceptance

: Documents should be available.

Criteria

Verification Table:

Documents Name	Documents Reference	Availability (Yes/No)	Verified (Yes/No)	Discrepancy? (Y/N)
SRS	ICS-18.063.05-SRS-R0			
Operational Manual	Refer attachment No. 1			
BOM	Refer attachment No. 2			

arks:			
Meet the acceptance Criteria [] Yes [] No	
Checked by :			Date :
Verified by :			Date:

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INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

System ID:

12.3 Verification of Capacity Requirement:

Objective : To verify the processing capacity of Computer System

Tools required : Not Applicable

Procedure : Physical verification of Capacity Requirement as per SRS

1. No more than 50% of the installed hard disk capacity in PC components should be consumed by installed software.

2. Historical data storage capacity should allow for online retrieval

of at forever of any historical data.

Acceptance criteria

1. Capacity Requirement of the control system shall match with

SRS.

Verification Table:

S.No.	Item Name	Expected	Actual (Yes/No)	Discrepancy? (Y/N)
1	Local Electronic Storage	Not more than 50 % should be consumed by installed software		
2	Historical data storage	Not more than 50 % should be consumed by historical data		

(S:			
Meet the acceptance Criteria [] Yes [] No	
Checked by :	_		Date :
Verified by :			Date :

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INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

System Name: FTIR System ID:

12.4 Verification of Hardware Components:

Objective : To verify the installed hardware components as per the SRS.

Tools Required : Not Applicable

Procedure : 1. Verify Hardware Name.

2. Verify Hardware Make/ Assemble By

3. Verify Hardware Model No./Specification

Acceptance : Installed hardware component should match with SRS.

Criteria

Verification Table:

Name	Make/ Assemble By	Model No./Specification	Qty.	Installation (Yes/No)	Discrepancy? (Y/N)
Monitor	Acer	EB192Q	01		
CPU	Acer	Veriton-IC6404	01		
UPS	Emerson Network System	20 kVA	01		
RAM	Acer	4 GB	01		
Processor	Intel	I3 3.60 GHz	01		
Printer	Canon	3300	01		
Analytical instrument	PerkinElmer	Spectrum Two	01		

Verification Table: Communication Port

S.No.	Port Type	Qty.	Installation (Yes/No)	Discrepancy? (Y/N)
1.	USB	2		
2.	Ethernet	1		

Meet the acco	eptance Criteria [] Yes [] No	
Checked by	:	-		Date:
Verified by	:			Date:

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INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

System Name: FTIR System ID:

12.5 Verification of Software Components:

Objective : To verify the installed software components as per the SRS.

Tools Required : Not Applicable

Procedure : 1. Verify Software Name.

2. Verify Software Version

3. Verify operating system.

4. Verify software backup availability.

Acceptance Criteria : Installed software component should match with SRS.

Verification Table:

A. For Software Components

S.No.	Software Name	Version	Installation (Yes/No)	Discrepancy? (Y/N)
1.	Adobe Acrobat Reader DC	18.011.20055		
2.	Adobe Flash player	18.0.0.194		
3.	Any Desk	ad 3.7.0		
4.	Driver Pack Notifie	2.0		
5.	K-Lite code pack	11.7.5		
6.	Mozilla Firefox	62.0		
7.	TeamViewer13	13.1.1548		
8.	Windows	7 64 bit SP1		

B. Operating system details:

S.No.	Window	Product key/ Liecence key	Discrepancy? (Y/N)
1.	Windows 7		

C. Software Backup Availability:

S.No.	Available (Yes/ No)	Discrepancy? (Y/N)

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Document No.:

PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

System Name: FTIR	System ID:
Remarks:	
Meet the acceptance Criteria [] Yes [
Checked by :	Date:
Verified by :	Date:

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System Name: FTIR System ID:

12.6 Verification of Physical and Logical Security Control:

Objective : Verify the physical and logical security of Computer System.

Tools Required : Not Applicable

Procedure : 1. Verify physical Security.

2. Verify logical security of Application Window and Software

3. Verify User for Application access

Acceptance : Physical security should be maintained. Logical

Criteria

Window Login password Should be available.

> Application Software should have multiple numbers of user's role

with user name.

A. Verification Table for Physical Security:

System	Security	Availablility (Yes/No)	Discrepancy? (Y/ N)
Computer system	PC should be physically secure		

B. Verification Table for Logical Security Window:

Specified user	Logical security available (Yes/No)	Discrepancy? (Y/ N)
Logical security		

C. Verification Table for Logical Security Application Software:

Specified user	Logical security available (Yes/No)	Discrepancy? (Y/ N)
Analyst		
Reviewer		
Admin		

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em Name: FTIR	System ID:
emarks:	
Meet the acceptance Criteria [] Yes	[] No
Checked by :	Date:
Verified by :	Date:
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System Name: FTIR	System ID:
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12.7 Verification of Test Instruments Calibration and Traceability:

Objective : To verify the test instruments traceability.

Tools Required : Not Applicable

Procedure : 1. Verify Certificate No.

2. Verify Traceability.

3. Verify Calibration Done Date.

4. Verify Calibration Due Date.

Acceptance : Test instruments should be calibrated at the execution.

Criteria

Verification Table:

Certificate No.	Traceability (Attachement No.)	Calibration Done On	Calibration Due On	Verified (Yes/No)	Discrepancy? (Y/N)
	Refer attachment No. 3				
	Refer attachment No. 4				

	Refer attachment No. 4				
Remarks:					
Meet the accep	ptance Criteria [] Yes	s [] No			
Checked by	:		Date	:	
Verified by	:		Date	:	

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INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

System Name: FTIR	System ID:
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12.8 Verification of Power Utility:

Objective : To verify the installed power utility is as per specifications.

Tools Required : Digital Multimeter

Procedure : 1. Switch ON the Power Supply.

2. Put the Multimeter in AC/DC range.

3. Record the supply voltage.

Acceptance : Measured voltage shall match with the specified voltage.

Criteria

Verification Table:

Remarks:

Supply Voltage Measurement:

Name	Specified Voltage	Measured Voltage	Discrepancy? (Y/N)
Computer System Power Supply	230 VAC		
Analytical instrument	220-240 VAC		

Meet the acceptance Criteria [] Yes [] No	
Checked by :			Date :

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12.9 Verification of Environment Condition:

Objective : To verify the environment conditions.

Tools Required : Digital Thermo Hygrometer

Procedure : 1. Switch ON the thermo hygrometer.

2. Record maximum temperature.

3. Record maximum relative humidity.

Acceptance : Test instruments should be calibrated at the execution.

Criteria

Verification Table:

Name	Temperature	Relative Humidity	Measured Results	Discrepancy? (Y/N)
Computer System Environmental Condition	NMT 25 °C	NA		
Analytical instrument	NMT 25 °C	NA		

narks: 			
Meet the acceptance Criteria [] Yes [] No	
Checked by :			Date :
Verified by :			Date :

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INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

System Name: FTIR	System ID:
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12.10 Verification of Communication Link Between Server To Computer System:

Objective : To Verify the communication link with server to client

Tools Required : Not Applicable

Procedure : 1. Verify and record the communication link between PC to file server

2. Verify and record the communication link between PC to Printer.

Acceptance : Communication link ping with PC to server should be executed and report

Criteria should be proper.

Verification Table:

S.No.	Source	Destination	Ping Executed (Yes/No)	Discrepancy? (Y/N)
1.	Computer system	File Server		
2.	Computer system	Printer		

Remarks:			
Meet the acceptance Criteria [] Yes [] No	Refer Attachment No. []
Checked by :	_		Date :
Verified by :	_		Date :

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INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

System Name: FTIR	System ID:
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12.11 Verification of General System Installation:

Objective : To verify the general system installation.

Tools Required : Not Applicable

Procedure : 1. Check all the test given in verification table.

2. Record the result in verification table.

Expected Result

Discrepancy?

Acceptance : All the test result should match with expected result.

Criteria

Verification Table:

Description	(Yes/No)	(Y/N)
Major components should be protected from shock.		
No visible physical damage should be available.		
Sufficient space should be available for maintenance.		
System identification nameplate should be available.		
System should be installed with all necessary instruments.		
Earthling should be connected properly.		
Power and signal cable should be separate.		
Unterminated and broken wire should not be open.		
Remarks:		
Meet the acceptance Criteria [] Yes [] No	
Checked by :	Date :	
Verified by :	Date :	

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System Name: FTIR	System ID:
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12.12 Verification of Standard Operating Procedure:

Objective : To verify the availability of related standard operating procedure.

Tools Required : Not Applicable

Procedure : 1. Verify SOP Name.

2. Verify SOP No.

3. Verify SOP Availability.

Acceptance

: Documents should be available.

Criteria

Verification Table:

SOP Name	SOP No.	Availability (Yes/No)	Discrepancy ? (Y/N)
Standard Operating Procedure of Backup / Restoration of Analytical Instrument Data			
Standard Operating Desktop Policy for Computer Operated Analytical Instrument			
Standard Operating Procedure on Password Policy for Software in Laboratory and GMP System			
Remarks:			

s:		
Meet the acceptance Criteria [] Yes [] No		
Meet the acceptance Criteria [] Yes [] No Checked by :	Date :	

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INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

System Name: FTIR System ID:

13. INSTALLATION QUALIFICATION TEST STATUS:

The installation qualification test status is as per below mentioned table.

Test Description	Status (Pass / Fail)	Discrepancy? (Y/N)
Identification of System Details		
Verification of Master Documents		
Verification of Capacity Requirement		
Verification of Hardware Components		
Verification of Software Components		
Verification of Physical and Logical Security Control		
Verification of Test Instruments Calibration and Traceability		
Verification of Power Utility		
Verification of Environmental Condition		
Verification Of Communication Link Between Server To Computer		
System		
Verification of General System Installation		
Verification of Standard Operating Procedures		

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System Name: FTIR System ID:

14. 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 User, engineering 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 User, engineering 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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stem Name: FTIR		System ID:
15. DISCREPANCY AND CORI	RECTIVE 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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INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

System Name: FTIR System ID:

16. ABBREVIATION:

Abbreviations	Description
GMP	Good Manufacturing Practices
IQ	Installation Qualification
OQ	Operation Qualification
QA	Quality Assurance
SOP	Standard Operating Procedure
NA	Not Applicable
ICH	International Conference of Harmonization
mA	Mili Ampere
VAC	Alternate Current Voltage
VDC	Direct Current Voltage
RH	Relative Humidity
CS	Computer System
NMT	Not More Than
BOM	Bill of material

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INSTALLATION QUALIFICATION FOR COMPUTER SYSTEM

System Name: FTIR **System ID:**

Attachment No.	Description
	2-4001-p-1011
ompiled by:	Date:



QUALITY ASSURANCE DEPARTMENT

			R COMPUTER SYSTEM
ystem Name:	FTIR		System ID:
19. POST A	PPROVALS:		
The signature	e listed below indicates the	e post approval of th	is installation qualification. This approval i
joint respons	ibility of listed functional a	reas.	
	DOCUMENT DEVELO	OPMENT	SIGN / DATE
Name	:		
Designation	:		
	DOCUMENT DEVIE	W AND ADDDONA	T (NAIC)
GA 15		W AND APPROVA	L (M/S)
Sign / Date	:		
Name	:		
Designation	:		
	Engineering		
Sign / Date	:		
Name	:		
Designation	:		
	IT		
Sign / Date	:		
Name	:		
Designation	:		
	Quality Control		
	DOCUMENT A	APPROVAL (M/S)
Sign / Date	;		
Name	:		
Designation	:		
	Quality Assurance		

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