

QUALITY ASSURANCE DEPARTMENT

OPERATIONAL QUALIFICATION FOR COMPUTER SYSTEM OF UV

ı ID:
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OPERATIONAL QUALIFICATION FOR COMPUTER SYSTEM OF UV

System Name	UV
System ID	
Location	Instrument Lab
Effective Date	

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System Name: UV System ID:			
1. PRE-AP	PROVALS:		
		the pre-approval of this oper	rational qualification. This approval is
_			unional quanticution. This approval is
joint respons	ibility of listed functiona	i areas.	
	DOCUMENT DEVE	LOPMENT	SIGN/DATE
Name	:	-	
Designation	•	_	
		EW AND APPROVAL (M/S	5)
Sign / Date	:	_	
Name	:	-	
Designation	:	_	
	Engineering		
Sign / Date	:	_	
Name	:	_	
Designation	:	_	
	IT		
Sign / Date	:	_	
Name	:	_	
Designation	:	_	
	Quality Control		
	DOCUMENT A	UTHORIZATION (M/S)
Sign / Date	:	_	
Name	:	_	
Designation	:	_	
	Quality Assurance		

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OPERATIONAL QUALIFICATION FOR COMPUTER SYSTEM OF UV					
System Name: UV	System ID:				
2. SIGNATURE OF EX	ECUTOR:				
All the executer involved in	in this document have to	sign within prescri	bed format given	below.	
M/s					
Name	Designation	Signature	Initial	Date	
M/S	··				
Name	Designation	Signature	Initial	Date	
3. REVISION HISTOR	Y:				
Date	Supersedes	I	Reason for Revisi	on	

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4. OBJECTIVE:

The objective of the system requirement specification defines the requirements of hardware software, functions and documentation for the Computer System (UV) installed at M/s. This document will be cross-referenced with the relevant system specification to ensure that the system specifications have been met according to M/s. requirements.

5. SCOPE:

6. SYSTEM DESCRIPTION:

Computer system of UV 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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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 operational qualification activities.
(Instrumentation and Control	> To prepare and execute the operational qualification in coordination with
Solutions)	engineering, validation and quality assurance team.
	Comply with regulatory / Guidelines / Standards / validation plan requirements
	throughout the validation life cycle.
	> To submit operational qualification for approval.
Engineering	> To provide the necessary data for operational qualification activities.
(M/s)	> To review the operational qualification.
IT	> To provide the necessary data for operational qualification activities.
(M/s)	> To review the operational qualification.
Quality Control	> To provide the necessary data for operational qualification activities.
(M/s)	To review the operational qualification.
Quality Assurance (M/s)	> To approve and authorized the operational qualification.

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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	Current Good Manufacturing Practice in Manufacturing,			
Regulations (CFR), Part 210	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	21 Code of Federal Regulations (CFR), Part 11			
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.			

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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.

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 Based system (UV) 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.
- Installation of major components as per the design specifications.
- The supply of all necessary documentation from manufacturer.
- The system is operating as intended and is under state of control.
- Operational features meet system requirements and system specifications.

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System Name: UV	System ID:
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12. OPERATIONAL VERIFICATION TEST:

12.1 Verification of Field Instruments Calibration

Objective : To verify the field instruments calibration.

Tools Required : Not Applicable

Procedure : 1. Verify Instruments Name.

2. Verify Instruments ID.

3. Verify Instruments Calibration Date.

4. Verify Instruments Calibration Due Date.

Acceptance

: Fields instruments should be calibrated.

Criteria

Verification Table:

Document No.:

Instruments Name	Instruments ID	Calibration Done On	Calibration Due On	Verified (Yes/No)	Discrepancy? (Y/N)

emarks:					
Meet the acceptance Criteria [] Yes [] No	Refere	ence Attachr	ment No. []
Checked by :			D	ate:	
Verified by :			D	ate:	

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12.2 Verification of Windows Security

Objective : To verify the Windows security as defined.

Tools Required : Not Applicable

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

2. Record the result in verification table.

Acceptance

: All the test result shall match with expected result.

Criteria

Verification Table:

Description	Specified	Actual result	Discrepancy?
		(Yes/No)	(Y/N)
Login to PC with blank	Access Denied &Error		
password	message displayed.		
Login to PC with	Access Denied & Error		
incorrect password	message displayed.		
Login to PC with correct	Access granted		
password			

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

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12.3 Verification of System Start-up & Shutdown

Objective : To verify the system healthiness through start up and shutdown procedure.

Tools Required : Not Applicable

Procedure : 1. Switch ON System Power Supply.

2. Startup time should be minimum and during this time PC cannot

generate any error message.

3. System safe shutdown with Application.

Acceptance Criteria 1. System start and shutdown should as per procedure defined in test data

table.

2. Application software without any error.

Verification Table for Startup and Shut down Process:

Description	Procedure	Expected Result	Actual Result (Yes/No)	Discrepancy? (Y/N)
To start up the	Turn On the Power	System should be turn		
system	Supply of System	on no error message		
		displaye on screen		
Login to system	Click on application software to run the software	Application software run automatically without any error		
To Shut Down the System	Exit from the software & click on shut down	Shut down the PC		

	Shut down				
Rema	rks:				
	Meet the acceptance Criteria [] Yes [] No	Refer Attachment No. []	
	Checked by :			Date :	-
	Verified by :			Date :	-

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12.4 Verification of Password Security

Objective : To verify the password security as defined.

Tools Required : Not Applicable

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

2. Record the result in verification table.

Acceptance

Criteria

: All the test result shall match with expected result.

Verification Table:

Description	Specified	Verified (Yes/No)	Discrepancy? (Y/N)
Minimum password length	Password should be minimum 6 characters		
Password Expiry Days	The password shall expire after 90 days		
Password Complexity	Password should be combinations of uppercase letters, lower case letters, numbers and special characters		
Wrong Password Entry	System shall be Generate the popup		
Wrong User Name & Password Entry at Admin Level	System shall be Generate the wrong password or user name popup		
Correct User & Password Entry at Admin Level	Admin login the system successfully		

Entry	at Admin Level				
Rema	arks:				
	Meet the acceptance Criteria [] Yes [] No	Refer Attachment No. []
	Checked by :	-		Date:	
	Verified by :	-		Date:	

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12.5 Verification of User access and security features of the system

Objective: To verify the user access and security features of the system as defined.

Tools Required : Not Applicable

Procedure : 1. Verification of User level

2. Login with each level and check all rights/screen.

3. Record the result with privileges in test verification table.

Acceptance

Criteria

: All the result shall match with user rights/screen and level.

Verification Table for User Rights						
Rights/	Analyst	Reviwer	Admin	Verified	Discrepancy? (Y/N)	
screen	Level	Level	Level	(Yes/No)		
Login Screen	()	()	()			
Instrument Screen	()	()	()			
UV 1800 screen	()	()	()			
Measurement screen	()	()	()			
Post run	()	()	()			
Data manger	()	()	()			
UV post run	()	()	()			
Administration	()	()	()			
Project administration	()	()	()			
Log browse	()	()	()			
Manual	()	()	()			

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

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12.6 Verification of Application software Screens

Objective : To verify the Software screens as defined.

Tools Required : Not Applicable

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

2. Record the result in verification table.

Acceptance

: All the test result shall match with expected result.

Criteria

Verification Table:

Document No.:

Screen No	Specified Screen	Actual Screen as per Specified? (Yes/No)	Verified (Yes/No)	Discrepancy? (Y/N)
1.	Login Screen	Yes () / No ()		
2.	Instrument Screen	Yes () / No ()		
3.	UV 1800 screen	Yes () / No ()		
4.	Measurement screen	Yes () / No ()		
5.	Post run	Yes () / No ()		
6.	Data Admin	Yes () / No ()		
7.	UV post run	Yes () / No ()		
8.	Administration	Yes () / No ()		
9.	Project administration	Yes () / No ()		
10.	Log browse	Yes () / No ()		
11.	Manual	Yes () / No ()		

rks:			
Meet the acceptance Criteria [] Yes [] No	Reference Attachment No.
Checked by :			Date:
Verified by :			Date:

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12.7 Verification of System Response Failure

Objective: To verify the system response failure as defined.

Tools Required : Not Applicable

Procedure : 1. Operate the system in run mode.

2. If any hardware of Computer system goes to fail.

3. Record the result in verification table.

Acceptance

Criteria

: All the test result shall match with expected result.

Verification Table:

Description	Specified	Observation (Yes/No)	Discrepancy? (Y/N)
CPU Failure	CPU should be off and monitor cannot be response		
Monitor Failure	Monitor should be off and CPU Should Be On		
UPS should be off and CPU and Monitor cannot response			
Communication cable failure between CPU and Monitor	Monitor should not be response		
Communication failure between CPU and Monitor	Monitor should not be response		
Communication failure with Local area network	Printing should be stop		
Power Failure	UPS supply connected with System to safe shutdown		

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

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12.8 Verification of Electronic Data Security

Objective : To verify the electronic data security as defined.

Tools Required : Not Applicable

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

2. Record the result in verification table.

Acceptance

: All the test result shall match with expected result.

Criteria

Verification Table:

Description	Description Specified		Discrepancy?
		(Yes/No)	(Y/N)
Electronic Record	All the electronic should be store in a		
Storage	correct manner and specified location.		
Electronic Data Storage	Only authorised user shall be access the		
Path Accessbility	elecronic storage data.		
Access of any other file	Only qualified and authorized user		
beside the primary	shall be access other file beside the		
system software	primary system software.		
Electronic Record	Electronic record should maintain in a		
Maintain	redundent hard disk / IT server / DVD		
	with specified location.		
Print the entire content	User should be print the entire content		
of electronic records	of electroic records.		
Electronic Data Edition	No editions and deletion possible in the		
and Deletion	Electronic Data.		

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

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System Name: UV	System ID:
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12.9 Verification of Audit Trail

Objective: To verify the audit trail as defined.

Tools : Not Applicable

Required

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

2. Record the result in verification table.

Acceptance

Criteria

: All the test result shall match with expected result.

Verification Table:

Document No.:

Description	Specified	Observation (Yes/No)	Discrepancy? (Y/N)
Attempt to login account	Login Successful. The same is logged in		
from authorised user	the audit trail automatically.		
Attempt to login account	Login Fail. The same is logged in the		
from unauthorised user	audit trail automatically.		
New Account Creation Audit trail should record the creation of			
and Deletion	new account and deletion.		
Password Change	Change in the password shall be logged		
1 assword Change	into the audit trail.		
	Audit trail should have facility to logged		
Audit Trail Content	the data with time, user identity, reason		
	of change and type of change.		

rks:			
Meet the acceptance Criteria [] Yes [] No	Reference Attachment No.
Checked by :			Date:
Verified by :			Date:

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System Name: UV	System ID:
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12.10 Verification of Report Generation

Objective : To verify the report generation and format as defined.

Tools Required : Not Applicable

Procedure : Verify that the standard report and analytical report will generate.

Acceptance

: All the test result shall match with expected result.

Criteria

Verification Table:

Description	Expected Result	Actual Result (Yes/No)	Discrepancy? (Y/N)
Report Edition/	Report shall not be		
Deletion	edit/ delete by user		
Date and Time stamp	Date and Time stamp		
on Report during	on Report during		
generation/Print	generation/Print.		
Redable Formate	Report shall be in		
	human readable format		

Rem	arks:			
	Meet the acceptance Criteria [] Yes [] No	Reference Attachment No. [
	Checked by :			Date:
	Verified by :			Date:

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12.11 Verification of User Prevented From Alternating Date and Time

Objective : To verify the Verification of User Prevented from Alternating Date and Time

as defined.

Tools Required : Not Applicable

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

2. Record the result in verification table.

Acceptance

: User cannot change or alter the date and time of system.

Criteria

Verification Table:

User	Description	Observation	Discrepancy? (Y/N)
Analsyt	User access/ not access date & time		
Reviwer	User access/ not access date & time		
Admin	User access/ not access date & time		

rks:			
Meet the acceptance Criteria [] Yes [] No	Reference Attachment No. [
Checked by :			Date:
Verified by :			Date:

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System Name: UV	System ID:
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12.12 Verification of Data Back Up

Objective : To verify the data backup as defined.

Tools required : Not Applicable

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

2. Record the result in verification table.

Acceptance

Criteria

All the test result should match with expected result.

Verification Table

S.No.	Test	Expected Result	Actual Results (Yes/No)	Discrepancy? Y/N
1.	Go to the following	Data size, folder name should		
	folder.	be noted.		
	"D:\uv data			
2.	Copy the same folder &	Folder should be copied		
	paste in external storage	successfully & noted the		
	device. Note the data	Data size, folder name.		
	size, files & folders.			
3.	Compare the data size,	Data size, folder name of		
	files & folders of the	data should be matched.		
	same folder before &			
	after data backup			
	activity.			

rks:			
Meet the acceptance Criteria [] Yes [] No	Reference Attachment No. []
Checked by :			Date:
Verified by :			Date:

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System Name: UV System ID:

12.13 Verification of system software as per 21 CFR part 11 Clauses

Objective: Verify the software as per 21 CFR Part 11 clauses

Tools Required : Not Applicable

Procedure : Check and record of 21 CFR Part 11 clauses for software.

> Open the Software in normally.

> Login with higher level id and password.

➤ Verify all the points as per the test table clause wise & record

Acceptance Criteria : System should complies 21 CFR part 11.

Verification Table:

S.No. (As per clause)	Question	Testing procedure and requirement	Actual Result	Discrepancy? (Y/N)
11.10(a)	Is it possible to	Try to change the		
	discern invalid or	possibilities of the record		
	altered records?	alteration in Process Data		
		file.		
		System should not allow		
		altering record.		
		Try to enter Invalid		
		character or Value in the		
		system.		
11.10(b)	Is the system capable	Take batch printout and		
	of producing accurate	Verify Print out of Data		
	and complete copies	Recorded. Data display and		
	of electronic records	Print should be match.		
	on paper?			
11.10(c)	Are the records	Verify data backup location		
	readily retrievable	and data retrieving		
	throughout their	facilities.		
		1		

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S.No. (As per clause)	Question	Testing procedure and requirement	Actual Result	Discrepancy? (Y/N)
	retention period?	Check data retention		
		period. It should be		
		documented in DATA		
		Backup SOP.		
11.10(d)	Is the system access is	Try to access the system by		
	authorized to	entering invalid user ID		
	individuals?	and Password for All Level		
		for operating System and		
		Application software.		
		Check access rights of each		
		level.		
		System should not allow		
		unauthorized person.		
11.10(e)	Is there a secure,	Try to change or modify		
	computer generated,	the set parameter and check		
	time stamped audit	for audit trail generated by		
	trail that records the	the system.		
	date and time of			
	operator entries and	Audit Trail should be		
	actions that create,	available for any		
	modify or delete	modification		
	electronic records?			
11.10(f)	Is an electronic	Verify that audit trail is		
	record's audit trail	available till data retention		
	retrievable throughout	period.		
	the record's retention			
	period?			

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S.No. (As per clause)	Question	Testing procedure and requirement	Actual Result	Discrepancy? (Y/N)
11.10(g)	If the sequence of	Check sequence of		
	system steps or events	operation of Application		
	is important, is this	software as per operation		
	enforced by the system	procedure.		
	(e.g. As would be the	System should be operates		
	case in a process	as per sequence written in		
	control system)?	SOP.		
11.10(h)	Does the system ensure	Try to access the system by		
	that only authorized	entering invalid user ID		
	individuals can use the	and Password for		
	system, electronically	Application software.		
	sign records, access the	Check access rights of each		
	operation, or computer	level.		
	system input or output	Minimum 2 level is		
	device, alter a record or	required in Application		
	perform other	software		
	operations?	System should not allow		
		unauthorized person.		

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S.No. (As per clause)	Question	Testing procedure and requirement	Actual Result	Discrepancy? (Y/N)
11.10(i)	If it is a requirement	Verify system input data		
	of the system that	come from calibrated		
	input data or	sensors and Transmitters.		
	instructions can only			
	come from certain			
	input devices (e.g.			
	Terminals) does the			
	system check the			
	validity of the source			
	of any data or			
	instructions received?			
11.10 (j)	Is there documented	Verify the training record.		
	training, including on	Responsibility documents		
	the job training for	for the all system user and		
	system users,	related responsible person.		
	developers, it support			
	staff? Is there a			
	written policy that			
	makes individuals			
	fully accountable and			
	responsible for			
	actions initiated under			
	their electronic			
	signature?			
11.10(k)	System operation and	Verify and review System		
	maintenance	Operation and Maintenance		
	documentation	Document		
	controlled?			

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S.No. (As per clause)	Question	Testing procedure and requirement	Actual Result	Discrepancy? (Y/N)
11.10(1)	Is there a formal change control procedure for system documentation that maintains a time sequenced audit trail for those changes made by the pharmaceutical organization?	Verify the sop of change control, data backup, access control and maintenance.		

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

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13. OPERATIONAL QUALIFICATION TEST STATUS:

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

Test Description	Status (Pass/Fail)	Discrepancy? (Y/N)
Verification of Field Instruments Calibration		
Verification of Windows Security		
Verification of System Start-up & Shutdown		
Verification of Password Security		
Verification of User access and security features of the system		
Verification of Application software Screens		
Verification of System Response Failure		
Verification of Electronic Data Security		
Verification of Audit Trail		
Verification of Report Generation		
Verification of User Prevented from Alternating Date and Time		
Verification of Data Back Up		
Verification of system software as per 21 CFR part 11 Clauses		

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14. DISCREPANCIES HANDLING DURING COMPUTER 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 quality control 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 QC 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: UV	System ID:	
5. DISCREPANCY AND CO	ECTIVE ACTION FORM:	
Protocol Reference		
Discrepancy Number		
DISCREPANCY:		
Describe the Discrepancy		
Reported by	Date	
CORRECTIVE ACTION:		
Describe corrective action taker	attach additional sheets if necessary)	
Danastad by	Data	
Reported by	Date	
DISPOSITION ACTION:		
Acceptable? Yes	No	
Discussion		
Approved by	Date	
	Dute	
COMPLETION:		
Completed by	Date	
Document No.:	Doc	ge 28 of :



QUALITY ASSURANCE DEPARTMENT

OPERATIONAL QUALIFICATION FOR COMPUTER SYSTEM OF UV

System Name: UV System ID:

16. ABBREVIATION:

Abbreviations	Description								
GMP	Good Manufacturing Practices								
COMPUTER	Programable Logic Controller								
SRS	System Requirement and Specification								
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								

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QUALITY ASSURANCE DEPARTMENT

OPERATIONAL QUALIFICATION FOR COMPUTER SYSTEM OF UV

System Name: UV System ID:

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Attachment No.	Description
18. OPERATIONA	L QUALIFICATION SUMMARY & CONCLUSION:
Compiled by:	Date:
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QUALITY ASSURANCE DEPARTMENT

OPERATIONAL QUALIFICATION FOR COMPUTER SYSTEM OF UV

System Name: UV	System ID:

19. POST APPROVALS:

The signature listed below indicates the post approval of this operational qualification. 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	:	
	Quality control	
	DOCUMENT AUTHORIZATION (M/S)
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Designation	:	
	Quality Assurance	

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