

QUALITY ASSURANCE DEPARTMENT

RISK ANALYSIS STUDY PROTOCOL FOR EXTENDING & DISCONTINUATION OF SAMPLING FREQUENCY OF SAMPLING & USER POINTS OF PURIFIED WATER

DATE OF RISK ANALYSIS	
SUPERSEDE PROTOCOL No.	NIL



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1.0 PROTOCOL APPROVAL:

PREPARED BY:

DESIGNATION	NAME	SIGNATURE	DATE
OFFICER/EXECUTIVE			
(QUALITY ASSURANCE)			

REVIEWED BY:

DESIGNATION	NAME	SIGNATURE	DATE
HEAD (PRODUCTION)			
HEAD (QUALITY CONTROL)			

APPROVED BY:

DESIGNATION	NAME	SIGNATURE	DATE
HEAD			
(QUALITY ASSURANCE)			





2.0 OBJECTIVE:

• To provide documented evidence that there is no risk in extending & discontinuation of sampling frequency of sampling & User points of Purified Water.

3.0 SCOPE:

• This risk analysis study Protocol is applicable for performing risk analysis study for extending frequency of Sampling points & User points of Purified Water.



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4.0 **RESPONSIBILITY:**

Department	Responsibility
	Shall prepare & Review the Risk analysis Protocol.
	Execution of the Risk analysis Protocol with Production and Quality
	Control.
Quality Assurance	Shall compile the data & Prepare Summary Report
Quanty Assurance	Risk analysis Protocol shall be approved by the QA prior the execution.
	Shall review the executed Protocol to check the compliance and corrective
	action for any discrepancies found. Also shall prepare the summary and
	conclusion of the Risk analysis Study.
	Reviewing of Risk analysis Protocol for Correctness, Completeness and
Quality Control	Technical Excellence.
	Post approval of Risk analysis Protocol after Execution.
	Reviewing of Risk analysis Protocol for Correctness, Completeness and
Production	Technical Excellence.
	To provide support for execution of Risk analysis Study as per Protocol.
	Post approval of Risk analysis Protocol after execution.

5.0 REASON FOR RISK ANALYSIS:

To evaluate the risk in extending & discontinuation of sampling frequency of Sampling & user points of Purified Water.

6.0 SITE OF STUDY:

Manufacturing area (Granulation/Compression/Coating and Packing) floor, Q-block (Ointment Section & Liquid Section) & I Block manufacturing area.

7.0 RISK COMMUNICATION & TRAINING:

- The Risk analysis team shall be authorized by Head-QA or his/her designee.
- Quality Risk Management Team shall be cross functional team comprised of expert from different areas such as QA, QC and Production.
- Training shall be imparted to the team members before execution of Protocol for proper understanding of the procedure. Training shall be recorded in Training attendance Record.





RISK ANALYSIS STUDY PROTOCOL FOR EXTENDING & DISCONTINUATION OF SAMPLING FREQUENCY OF SAMPLING & USER POINTS OF PURIFIED WATER

8.0 RISK IDENTIFICATION & EVALUATION:

- There are 02 Purified Water Generation & Distribution System.
- Detail given below:

System	Purified W	ater Generation & Distribution	Purified Wat	er Generation & Distribution System								
	System 01		02									
Capacity	3 KL		5 KL									
Loop	Loop 01	QC & I-Block	Loop 04	Ointment Section, FFS, Ampoule,								
				MCDP & Store								
	Loop 02	Granulation & Softgel Section	Loop 05	F-Block								
	Loop 03	Coating & Packing	Loop 06	Coating, Granulation & Three Piece								
Sampling	13 Nos.		13 Nos.	Line								
Points												
User Points	76 Nos.		49 Nos.									



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9.0 RISK MITIGATION:

- > Sampling planner to be revised.
- Daily monitoring to be redefined.

10.0 RISK ANALYSIS, RE-RISK ANALYSISCRITERIA:

10.1 Failure Mode Effect Analysis:

In the following section a table is produced for the risk analysis using FMEA tool. The significance or instruction for each column is described in the following paragraph.

Column 1:	Serial number of Risk Analysis item
Column 2:	Item/Function: Identify the process step or component associated with the risk.
Column 3:	Potential Failure Mode: Identify the type of risk associated with the process or component.
Column 4:	Effect of Potential Failure/Cause: Verify that whether risk have GMP impact.
Column 5/6/7/8/9:	Severity/Occurrence/Detection/Risk level/Risk Acceptance: Risk Priority Number to be calculated by taking Severity, Occurrence & Detection of potential failure into consideration.
Column 10:	Risk Mitigation: Write the risk mitigation strategy as considered in design.
Column 11/12/13/14/15:	Severity/Occurrence/Detection/Risk level/Risk Acceptance: Risk Priority
	Number to be calculated after mitigation by taking Severity, Occurrence &
	Detection of potential failure into consideration.
Column16:	Recommended action: Recommended actions should be given for controlling
	failure occurrence.

Table 1: Instruction for each column given above





RISK ANALYSIS STUDY PROTOCOL FOR EXTENDING & DISCONTINUATION OF SAMPLING FREQUENCY OF SAMPLING & USER POINTS OF PURIFIED WATER

FACILITY: EXTENDING &DISCONTINUATION OF SAMPLING FREQUENCY OF SAMPLING & USER POINTS FOR ANALYSIS (FOR PURIFIED WATER)

S.No.		Potential	Potential Cause/	Potential Effect of	Current Control	Reference	S	O	D	Risk	Recommended			st Ri	
	Function	Failure Mode (Failure Mode)	Mechanism of Failure	Failure (Effect)						Priority Number (S*O*D)	Actions (if any)	S	O	D	RPN S*O*D
1.	Sampling points frequency extension & Discontinuation in Generation System	Microbial contamination may occur	Microbial count may increase	Bio-burden failure	Monthly sanitization Vent filter integrity Qualification done for 03 phases. UV installed in Generation.	"Sanitization of Purified water Generation & Distribution system"(SOP. Filter integrity testing Water System Validation. Performance Qualification report.	4	3	1	12	NA	NA	NA	NA	NA
		Bio-burden in water increases	Pathogen enhancement	•MLT failure	Monthly sanitization Vent filter integrity. Qualification done for 03 phases.	"Sanitization of Purified water Generation & Distribution system" (SOP. Filter integrity testing. Water System Validation. Performance Qualification report.	4	3	1	12	NA	NA	NA	NA	NA
		Chemical impurities enhances in products	Unwanted impurity increases	Contamination	Conductivity meter installed. Qualification done for 03 phases.	Operational Qualification report. Performance Qualification report.	5	2	3	30	Trend of online Conductivity to be monitored regularly	5	2	1	10
		Description failure	Unwanted impurity increases	• Contamination	Chemical & Microbial analysis done for Generation Supply & Return loop on daily basis Qualification done for 03 phases.	Water Trend. Performance Qualification report.	5	2	3	30	Trend of online Conductivity to be monitored regularly	5	2	1	10
		Conductivity failure	Increase in ions due to impurity.	Oxidation-Reduction reaction takes place	 Auto dumping valve. 	Operational Qualification report. Performance Qualification report.	5	3	1	15	NA	NA	NA	NA	NA





S.No.	Item/	Potential	Potential Cause/	Potential Effect of	Current Control	Reference	S	0	D	Risk	Recommended		Po	st R	isk
	Function	Failure Mode (Failure Mode)	Mechanism of Failure	Failure (Effect)						Priority Number (S*O*D)	Actions (if any)	S	O	D	RPN S*O*D
		TOC failure	Bio-burden results into increase in carbon	•Carbon value increases in batch	Chemical & Microbial analysis done for Generation Supply & Return loop on daily basis Qualification done for 03 phases.	Water Trend. Performance Qualification report.	3	3	1	9	NA	NA	NA	NA	NA
		Acidity/Alkalinity failure	Imbalance in pH	Batch failure	Chemical & Microbial analysis done for Generation Supply & Return loop on daily basis Qualification done for 03 phases.	Water Trend. Performance Qualification report.	3	1	1	3	NA	NA			NA
2.	Sampling points frequency extension & Discontinuation in Distribution System	Microbial Contamination may occur in Production batches	Degradation of products	Batches may fail in bio- burden	Monthly sanitization Vent filter integrity Qualification done for 03 phases.	 "Sanitization of Purified water Generation & Distribution system" SOP. Filter integrity testing. Water System Validation. Performance Qualification report. 	4	3	1	12	NA	NA	NA	NA	NA
		Bio-burden in water increases	Pathogen enhancement	Bio-burden failure	Monthly sanitization Vent filter integrity. Qualification done for 03 phases.	"Sanitization of Purified water Generation & Distribution system" SOP Filter integrity testing. Water System Validation. Performance Qualification report.	4	3	1	12	NA	NA	NA	NA	NA
		Chemical impurities enhances in products	New Impurity development	Contamination	Conductivity meter installed. Qualification done for 03 phases.	Operational Qualification report. Performance Qualification report.	5	2	3	30	Trend of online Conductivity to be monitored regularly	5	2	1	10





S.No.	Item/	Potential	Potential Cause/	Potential Effect of	Current Control	Reference	S	0	D	Risk	Recommended		Po	st Ri	isk
	Function	Failure Mode (Failure Mode)	Mechanism of Failure	Failure (Effect)						Priority Number (S*O*D)	Actions (if any)	S	O	D	RPN S*O*D
		Description failure	Unwanted impurity increases	Resulting into failure of product description	Chemical & Microbial analysis done for Generation Supply & Return loop on daily basis Qualification done for 03 phases.	Water Trend. Performance Qualification report.	5	2	3	30	Trend of online Conductivity to be monitored regularly	5	2	1	10
		Conductivity failure	Increase in ions due to impurity.	Oxidation-Reduction reaction takes place	 Alarm system in SCADA. Auto dumping valve Qualification done for 03 phases. 	Operational Qualification report. Performance Qualification report.	5	3	1	15	NA	NA	NA	NA	NA
		TOC failure	Bio-burden results into increase in carbon	•Carbon value increases in batch	Chemical & Microbial analysis done for Generation Supply & Return loop on daily basis Qualification done for 03 phases.	Water Trend. Performance Qualification report.	3	3	1	9	NA	NA	NA	NA	NA
		Acidity/Alkalinity failure	Imbalance in pH	Change in finished product property	Chemical & Microbial analysis done for Generation Supply & Return loop on daily basis Qualification done for 03 phases.	Water Trend. Performance Qualification report.	3	1	1	3	NA	NA	NA	NA NA N	NA
3.	Operational parameters at Generation System	Online Conductivity Meter failure	Increase in ions due to impurity.	Oxidation-Reduction reaction takes place resulting into product degradation	Alarm in SCADA. Auto dumping starts Off line conductivity verification of supply & return line on daily basis. Qualification done for 03 phases.	Operational Qualification report. Performance Qualification report.	5	3	1	15	NA	NA	NA	NA	NA
		Auto pH adjustment with ORP failure	pH may imbalance	Change in finished product property resulting into product degradation	Alarm in SCADA Plant will shut down as pH is out of limit. Qualification done for 03 phases.	Operational Qualification report. Performance Qualification report.	5	3	1	15	NA	NA	NA	NA	NA
		UV lamp failure	Microbial count increases	MLT failure	• Alarm in SCADA • Auto dumping • Qualification done for 03 phases.	Operational Qualification report. Performance Qualification report.	5	3	1	15	NA	NA	NA	NA	NA



RISK ANALYSIS STUDY PROTOCOL FOR EXTENDING & DISCONTINUATION OF SAMPLING FREQUENCY OF SAMPLING & USER POINTS OF PURIFIED WATER

S.No.	Item/ Function	Potential Failure Mode (Failure Mode)	Potential Cause/ Mechanism of Failure	Potential Effect of Failure (Effect)	Current Control	Reference	S	0	D	Risk Priority Number (S*O*D)	Recommended Actions (if any)		Po	st Ri D	RPN S*O*D
4.	Operational parameters at Distribution System	Online Conductivity Meter failure	Increase in ions due to impurity.	product degradation	 Auto dumping starts 	Operational Qualification report. Performance Qualification report.	5	3	1	15	NA	NA	NA	NA	NA
		UV lamp failure	Microbial count increases		Alarm in SCADA Auto dumping. Qualification done for 03 phases.	Operational Qualification report. Performance Qualification report.	5	3	1	15	NA	NA	NA	NA	NA

Table 2: The above table shows Potential failure mode, effect of potential failure along with Risk Probable Number, Risk Mitigation & Recommended Actions.

*The Risk Priority Number (RPN/Overall Risk) changes based upon the risk. The Risk Assessment team shall decide the acceptance criteria. For example the risk priority number is categorized as below:

Risk Priority Number (RPN)	Risk levels
Upto 25	Low
26-50	Medium
51 to ≤ 125	High

RPN = Severity x Occurrence x Detection



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11.0 CONCLUSION:

Risk analysis data shall be written on Risk Analysis Study Report for extending the Sampling points & user points of Purified Water, clearly stating the achievement or non-compliance of the acceptance criteria, effect of the deviations made during the Risk analysis and in case of failure, investigation carried out and their findings.

12.0 RECOMMENDATION:

Recommendation shall be written on the Risk Analysis Study Report for extending the Sampling points & user points of Purified Water, clearly stating that there is no impact/adverse impact on the product quality & personnel can be/can`t be merged under recommended environmental conditions.

13.0 REFERENCES:

SOP "Quality Risk Management".

14.0 DOCUMENTS TO BE ATTACHED:

- Training Record.
- Reference SOP.

15.0 DEVIATION FROM PRE DEFINED SPECIFICATION, IF ANY:

Deviations from pre-defined procedures & specification during extending the frequency of analysis of Purified water shall be investigated in accordance with CQA SOP "Handling of Deviations", **SOP** and shall be documented in the Risk analysis report.

16.0 CHANGE CONTROL, IF ANY:

Change control during extending the frequency of Purified water analysis shall be authorized in accordance with CQA SOP "Change Control" and shall be documented in the Risk analysis report.



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17.0 ABBREVIATIONS:

FMEA : Failure Mode Effect Analysis GMP : Good Manufacturing Practices

RPN : Risk Priority Number





18.0 Annexure:

Annexure I

Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of	Justification
		to taser point	requency	Sampling	
Purified Water Generation System	Before Ultra Violet		Weekly	Discontinued	Sampling point is not critical as the sampling is done for
					all 03 qualification/ validation phases. No deviation has
					been observed in all 03 phases. All phases results are
					consistent & within trend. All parameters has been
					verified online in SCADA during generation of Purified
					Water.
Purified Water Generation System	After Ultra Violet		Weekly	Discontinued	Sampling point is not critical as the sampling is done for
					all 03 qualification/validation phases. No deviation has
					been observed in all 03 phases. All phases results are
					consistent & within trend. All parameters have been
					verified online in SCADA during generation of Purified
					Water.
Purified Water Generation System	Before Conductivity		Weekly	Discontinued	Sampling point is not critical as the sampling is done for
					all 03 qualification/validation phases. No deviation has
					been observed in all 03 phases. All phases results are
					consistent & within trend. All parameters have been
					verified online in SCADA during generation of Purified
					Water.
QC Laboratory	Hot Zone Area		Weekly	Discontinued	Sampling point is not critical as the sampling is done for
					all 03 qualification/validation phases. No deviation has
					been observed in all 03 phases. All phases results are
					consistent & within trend. Water is to be used for
					Chemical testing only; hence increase in the bio-load
					had no impact on product quality.
QC Laboratory	Washing Area		Weekly	Discontinued	Sampling point is not critical as the sampling is done for





Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
QC Laboratory	Dissolution Area		Weekly	Discontinued	all 03 qualification/ validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Water is to be used for Chemical testing only; hence increase in the bio-load had no impact on product quality. Sampling point is not critical as the sampling is done for all 03 qualification/ validation phases. No deviation has
					been observed in all 03 phases. All phases results are consistent & within trend. Water is to be used for Chemical testing only; hence increase in the bio-load had no impact on product quality.
QC Laboratory	Dissolution Area		Weekly	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Water is to be used for Chemical testing only; hence increase in the bio-load had no impact on product quality.
QC Laboratory	Dissolution Washing Area		Weekly	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Water is to be used for Chemical testing only; hence increase in the bio-load had no impact on product quality.
QC Laboratory	Dissolution Washing Area		Weekly	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/ validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Water is to be used for Chemical testing only; hence increase in the bio-load



Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
					had no impact on product quality.
Micro Laboratory	Autoclave		Weekly	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Purified water of this point is used for generation of steam for Autoclave purpose. Hence had no critical value in terms of bio-burden.
I block DPI	Garment Room		Weekly	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Water is to be used for washing purpose only; hence increase in the bio-load had no impact on product quality. Prior to use all the garments are autoclaved & sterilized by UV also.
I block DPI	Janitor Room		Weekly	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Water is to be used for area cleaning only (D Grade), increase in the bio-load had no impact on product quality as area is cleaned by disinfectant (Lysol/Virosil/ Dettol).
I block DPI	Janitor Room		Weekly	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Water is to be used for area cleaning only (D Grade), increase in the bio-load had no impact on product quality as area is cleaned by disinfectant (Lysol/Virosil/ Dettol).





Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
I block DPI	Unit Preparation Room		Weekly	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Water is used in Autoclave for bung sterilization, garment sterilization & accessories sterilization only, As Bung Processor runs at 121.4°C for 30 minutes remaining water got sterilized, hence no impact on product quality.
I block DPI	Utensil Room		Weekly	Monthly	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Water is used for machine accessories cleaning, these cleaned utensils are then sterilized for further use. As water comes in direct contact of accessories hence can be tested monthly.
I block DPI	Vial Washing Area		Weekly	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Water is used for vial washing, these washed vials are then transferred to depyrogenation tunnel for sterilization, hence no need for analysis.
I Block 2 nd Floor	PSG (Pure Steam Generator)		Weekly	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Water is used in generation of Pure Steam used for Bung Processor, CIP, SIP & Terminal Sterilizer. All these process works itself on



Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
					Sterilizing principle, hence no impact on product quality.
					So point can be discontinued.
I Block 2 nd Floor	MCDP(Multi-column Distillation Plant)		Weekly	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Water is used in generation of wfi used for Manufacturing. MCDP works itself on Sterilizing principle & produce pyrogen free wfi hence no impact on product quality. So point can be discontinued.
Q.C Laboratory	Hot Zone Area		Weekly	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Water is used for washing of glasswares only, hence no impact on product quality.
Q.C Laboratory	Chemical Section Room		Weekly	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Water is used for washing of glasswares only, hence no impact on product quality.
Q.C Laboratory	Dissolution Room		Weekly	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. Water is used for washing of glasswares only, hence no impact on product quality.
Q.C Laboratory	Glass Ware Washing Room		Weekly	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are





Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
					consistent & within trend. Water is used for washing of
					glasswares only, hence no impact on product quality.
Q.C Laboratory	Chemical Section Room		Weekly	Discontinued	Sampling point is not critical as the sampling is done for
					all 03 qualification/validation phases. No deviation has
					been observed in all 03 phases. All phases results are
					consistent & within trend. Water is used for washing of
					glasswares only, hence no impact on product quality.
Q.C Laboratory	Dissolution Room		Weekly	Discontinued	Sampling point is not critical as the sampling is done for
					all 03 qualification/validation phases. No deviation has
					been observed in all 03 phases. All phases results are
					consistent & within trend. Water is used for washing of
					glasswares only, hence no impact on product quality.
Q.C Laboratory	HPLC Sample Preparation		Weekly	Discontinued	Sampling point is not critical as the sampling is done for
	Room				all 03 qualification/validation phases. No deviation has
					been observed in all 03 phases. All phases results are
					consistent & within trend. Water is used for washing of
					glasswares only, hence no impact on product quality.
	Before Ultra Violet		Monthly	Once in a	Sampling point is not critical as the sampling is done for
				month	all 03 qualification/validation phases. No deviation has
					been observed in all 03 phases. All phases results are
					consistent & within trend. All parameters have been
					verified online in SCADA during generation of Purified
					Water.
	After Ultra Violet		Monthly	Once in a	Sampling point is not critical as the sampling is done for
				month	all 03 qualification/validation phases. No deviation has
					been observed in all 03 phases. All phases results are
					consistent & within trend. All parameters have been verified online in SCADA during generation of Purified
					Water.
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Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
	Return Loop (Before Conductivity)		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. All parameters have been verified online in SCADA during generation of Purified Water.
General Block	Gr-01 Equipment Washing		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. As the water system is continuous and has a flow of 4.2 m³/hr & no dead leg has been observed during qualification, so there is no chance of microbial growth in the distribution line, while there is a chance of cross contamination in user points but during qualification the tip & surrounding of the point is sanitized by 70% IPA and it has no impact on washing as the washing is done in D Class environment, hence there is no chance of contamination during distribution. So the mentioned user point can be discontinued.
	Gr-01 Paste Preparation Room		Monthly	Once in a month	Sampling point is critical as the water is directly used in formulation hence after certain period an evaluation should be done.
	Gr-02 Equipment Washing		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. As the water system is continuous and has a flow of 4.2 m³/hr & no dead leg has been observed during qualification, so there is no chance of microbial growth in the distribution line, while there is a chance of cross contamination in user points but during qualification the tip & surrounding of





Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
General Block	Gr-02 Paste Preparation Room		Monthly	Once in a month	the point is sanitized by 70% IPA and it has no impact on washing as the washing is done in D Class environment, hence there is no chance of contamination during distribution. So the mentioned user point can be discontinued. Sampling point is critical as the water is directly used in formulation hence after certain period an evaluation should be done.
	Gr-03 Equipment Washing		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. As the water system is continuous and has a flow of 4.2 m³/hr & no dead leg has been observed during qualification, so there is no chance of microbial growth in the distribution line, while there is a chance of cross contamination in user points but during qualification the tip & surrounding of the point is sanitized by 70% IPA and it has no impact on washing as the washing is done in D Class environment, hence there is no chance of contamination during distribution. So the mentioned user point can be discontinued.
	Gr-03 Paste Preparation Room		Monthly	Once in a month	Sampling point is critical as the water is directly used in formulation hence after certain period an evaluation should be done.
	Gr-05 Equipment Washing		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. As the water system is continuous and has a flow of 4.2 m³/hr & no dead leg has been observed during qualification, so there is no chance of microbial growth in the distribution line, while there is a chance of cross contamination in user



Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
	C. 05 Parts Parts in		M. (I)		points but during qualification the tip & surrounding of the point is sanitized by 70% IPA and it has no impact on washing as the washing is done in D Class environment, hence there is no chance of contamination during distribution. So the mentioned user point can be discontinued.
	Gr-05 Paste Preparation Room		Monthly	Once in a month	Sampling point is critical as the water is directly used in formulation hence after certain period an evaluation should be done.
General Block	Gr-06 Equipment Washing		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. As the water system is continuous and has a flow of 4.2 m³/hr & no dead leg has been observed during qualification, so there is no chance of microbial growth in the distribution line, while there is a chance of cross contamination in user points but during qualification the tip & surrounding of the point is sanitized by 70% IPA and it has no impact on washing as the washing is done in D Class environment, hence there is no chance of contamination during distribution. So the mentioned user point can be discontinued.
	Gr-06 Paste Preparation Room		Monthly	Once in a month	Sampling point is critical as the water is directly used in formulation hence after certain period an evaluation should be done.
	Gr-07 Equipment Washing		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. As the water system is continuous and has a flow of 4.2 m ³ /hr & no dead leg has been observed during qualification, so there is no chance of microbial growth in the distribution line,



Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
					while there is a chance of cross contamination in user points but during qualification the tip & surrounding of the point is sanitized by 70% IPA and it has no impact on washing as the washing is done in D Class environment, hence there is no chance of contamination during distribution. So the mentioned user point can be discontinued.
	Gr-07 Paste Preparation Room		Monthly	Once in a month	Sampling point is critical as the water is directly used in formulation hence after certain period an evaluation should be done.
General Block General Block	Gr-08 Equipment Washing		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. As the water system is continuous and has a flow of 4.2 m³/hr & no dead leg has been observed during qualification, so there is no chance of microbial growth in the distribution line, while there is a chance of cross contamination in user points but during qualification the tip & surrounding of the point is sanitized by 70% IPA and it has no impact on washing as the washing is done in D Class environment, hence there is no chance of contamination during distribution. So the mentioned user point can be discontinued.
	Gr-08 Paste Preparation Room		Monthly	Once in a month	Sampling point is critical as the water is directly used in formulation hence after certain period an evaluation should be done.
	Gr-09 Equipment Washing		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. As the water system is continuous and has a flow of 4.2 m³/hr & no dead leg has been observed during qualification, so there is no



Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of	Justification
	Gr-09 Paste Preparation Room Gr-10 Equipment Washing		Monthly	Once in a month Once in a month	chance of microbial growth in the distribution line, while there is a chance of cross contamination in user points but during qualification the tip & surrounding of the point is sanitized by 70% IPA and it has no impact on washing as the washing is done in D Class environment, hence there is no chance of contamination during distribution. So the mentioned user point can be discontinued. Sampling point is critical as the water is directly used in formulation hence after certain period an evaluation should be done. Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. As the water system is continuous and has a flow of 4.2 m³/hr & no dead leg has been observed during qualification, so there is no chance of microbial growth in the distribution line, while there is a chance of cross contamination in user points but during qualification the tip & surrounding of
General Block	Gr-10 Paste Preparation Room		Monthly	Once in a	the point is sanitized by 70% IPA and it has no impact on washing as the washing is done in D Class environment, hence there is no chance of contamination during distribution. So the mentioned user point can be discontinued. Sampling point is critical as the water is directly used in formulation hence after certain period an evaluation
	Washing Area		Monthly	Once in a month	should be done. Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. As the water system is continuous and has a flow of 4.2 m³/hr & no dead leg





Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
	Filter Washing Area		Monthly	Once in a month	has been observed during qualification, so there is no chance of microbial growth in the distribution line, while there is a chance of cross contamination in user points but during qualification the tip & surrounding of the point is sanitized by 70% IPA and it has no impact on washing as the washing is done in D Class environment, hence there is no chance of contamination during distribution. So the mentioned user point can be discontinued. Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
General Block	Washing Area		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. As the water system is continuous and has a flow of 4.2 m³/hr & no dead leg has been observed during qualification, so there is no chance of microbial growth in the distribution line, while there is a chance of cross contamination in user points but during qualification the tip & surrounding of the point is sanitized by 70% IPA and it has no impact on washing as the washing is done in D Class environment, hence there is no chance of contamination during distribution. So the mentioned user point can be discontinued.
General Block	Medicament Area		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Gelatin		Monthly	Once in a	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation



Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
				month	has been observed in all 03 phases. All phases results are consistent & within trend.
	Washing Area (Ground)		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. As the water system is continuous and has a flow of 4.2 m³/hr & no dead leg has been observed during qualification, so there is no chance of microbial growth in the distribution line, while there is a chance of cross contamination in user points but during qualification the tip & surrounding of the point is sanitized by 70% IPA and it has no impact on washing as the washing is done in D Class environment, hence there is no chance of contamination during distribution. So the mentioned user point can be discontinued.
General Block	Washing Area		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. As the water system is continuous and has a flow of 4.2 m³/hr & no dead leg has been observed during qualification, so there is no chance of microbial growth in the distribution line, while there is a chance of cross contamination in user points but during qualification the tip & surrounding of the point is sanitized by 70% IPA and it has no impact on washing as the washing is done in D Class environment, hence there is no chance of contamination during distribution. So the mentioned user point can be discontinued.
	Before Ultra Violet		Monthly	Once in a	Sampling point is not critical as the sampling is done for



Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
Purified Water Generation System				month	all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. All parameters have been verified online in SCADA during generation of Purified Water.
	After Ultra Violet		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. All parameters have been verified online in SCADA during generation of Purified Water.
	Before Conductivity		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. All parameters have been verified online in SCADA during generation of Purified Water.
General Block	Coating Area-01		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Coating Area-02		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
General Block	Solution Preparation Room		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
General Diock	Coating Area-03		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has



Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
					been observed in all 03 phases. All phases results are consistent & within trend.
	Washing Area		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. As the water system is continuous and has a flow of 4.2 m³/hr & no dead leg has been observed during qualification, so there is no chance of microbial growth in the distribution line, while there is a chance of cross contamination in user points but during qualification the tip & surrounding of the point is sanitized by 70% IPA and it has no impact on washing as the washing is done in D Class environment, hence there is no chance of contamination during distribution. So the mentioned user point can be discontinued.
	Coating Area-04		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Solution Preparation Room		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Coating Area-05		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Coating Area-06		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.



Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
General Block	Coating Area-07		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Coating Area-08		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Coating Area-09		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Coating Area-10		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Coating Area-11		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Coating Area-12		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Coating Area-13		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Coating Area-16		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.





Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
General Block	Coating Area-15		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Coating Area-14		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Washing Area		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	IPQA Room (Adjacent to Rubber Stereo Room)		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Filter Washing Area		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Washing Area		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	IPQA Area		Monthly	Once in a month	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Before Ultra Violet		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. All parameters have been





Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
					verified online in SCADA during generation of Purified
					Water.
General Block	After Ultra Violet		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend. All parameters have been verified online in SCADA during generation of Purified Water.
	Garment Wash Room		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	CIP/SIP Room		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Unit Preparation & Sterilization Room		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Equipment Washing Sterilization		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Ampoule Washing & Sterilization		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Leak Test & Terminal Sterilization		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.





Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
	FFS line		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
General Block	Equipment Washing		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	MCDP Line		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	PSG Line		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	USER POINT (SPARE)		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Washing room		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Janitor Room		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Washing Room		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.





Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
	IPQA room		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Janitor Room		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	IPQA room		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Washing room		After every 15 days	Discontinued	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
WFI (I Block)	In return loop line before conductivity		After every 15 days	Six months	Sampling point is not critical as the sampling is done for supply & return loop for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Disinfectant preparation Room (DPI)		After every 15 days	Six months	Sampling point is not critical as the sampling is done for preparation of disinfectant and all 03 qualification/validation phases have been completed. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Equipment Washing room (DPI)		After every 15 days	Six months	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. Water is used for washing purpose only. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.



Location	Sampling point details	Sampling point & user point	Existing sampling frequency	Proposed Frequency of Sampling	Justification
	Unit Preparation room (DPI)		After every 15 days	Six months	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. Water is used for Autoclave purpose. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Vial Washing & Sterilizing room (DPI)		After every 15 days	Six months	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. Water is used for vial washing, finally washed vials were sterilized. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Garment Washing room (TP)		After every 15 days	Six months	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	CIP/SIP (TP)		After every 15 days	Six months	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Manufacturing 2 (TP)		After every 15 days	Six months	Sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Filtration 1(TP)		After every 15 days	Six months	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.
	Filtration 2 (TP)		After every 15 days	Six months	Sampling point is not critical as the sampling is done for all 03 qualification/validation phases. No deviation has been observed in all 03 phases. All phases results are consistent & within trend.





Location	Sampling point details	Sampling point	Existing sampling	Proposed	Justification
		& user point	frequency	Frequency of	
				Sampling	
	Equipment Wash (TP)		After every 15	Six months	Sampling point is not critical as the sampling is done
			days		for all 03 qualification/validation phases. No deviation
			•		has been observed in all 03 phases. All phases results
					are consistent & within trend.
	Disinfectant room (TP)		After every 15	Six months	Sampling point is not critical as the sampling is done
	` '		days		for all 03 qualification/validation phases. No deviation
					has been observed in all 03 phases. All phases results
					are consistent & within trend.