

PHARMA DEVILS QUALITY ASSURANCE DEPARTMENT

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PRE RISK ANALYSIS FOR AUTOMATIC MEASURING CUP PLACEMENT (CEPHA BLOCK)

RISK ASSESSMENT REPORT BY FMEA

Product/System/Equipment	Automatic Measuring Cup Placement
Risk Assessment Report No.	
Report Date	





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DOCUMENT APPROVAL:

This risk analysis study for the preapproval of report by following:

Responsibility	Department	Name	Signature	Date
Prepared by	Quality Assurance			
	Production			
	Quality control			
Reviewed by	Engineering			
	Store			
	Quality Assurance			
Approved by	Head-QA			



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1.0 Introduction

The "Automatic Measuring Cap Placement "is intended for the manufacturing of powder oral dosage form. The machine is precision built on sturdy of provide tamper evidence, prevent the ingress of moisture and oxygen, and avoid leakages. Proper sealing can be achieved by selecting caps, induction wads & containers having proper fit & compatibility. The goal is to obtain that the integrated machine with following facilities such as hopper and powder and filling head to achieve desired filled with assurance of product quality & safety.

2.0 Objective

Objective of this report is to assess the risk associated with the equipment Automatic Measuring Cup placement in pre assessment in the manufacturing facility of Cepha Block at, in line with the guidance of the Risk Management manual of and ICH Q9.

3.0 Scope

4.0 Risk assessment approach

Risk assessment is carried out as per FMEA (Failure mode effects analysis) method.

5.0 Responsibility

Quality Assurance

Engineering

Production

Quality Control

Store

6.0 Reference Documents

1. ICH Q9-Quality Risk Management



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....... Risk assessment is a part of corporate quality assurance. Pre Quality Risk assessment of "Automatic Measuring Cup Placement" is done to check the system is capable of providing quality product throughout the life cycle of the drug product.

7.0 RISK RANKING PARAMETERS

7.1 Rating parameters for Severity

Effect	Scale	Description
No effect	1	No effect on output
Very slight	2	Customer not annoyed
Slight	3	Slight
Minor	4	Minor effect on performance
Moderate	5	Moderate effect on performance
Significant	6	Partial failure but operable
Major	7	Product performance severely affected, but some operability and safe
Extreme	8	Very dissatisfied, product inoperable but safe
Serious	9	Potentially hazardous effect, time-dependent failure
Hazardous	10	Hazardous effect, safety related sudden failure



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7.2 Rating parameters for Occurrence

Occurrence	Scale	Description
Almost never	1	Failure unlikely; history shows no failures
Remote	2	Rare number of historical failure
Very Slight	3	Very few failures likely
Slight	4	Few failures likely
Low	5	Occasional number of failures likely
Medium	6	Medium number of failures likely
Moderately High	7	Moderately high number of failures likely
High	8	High number of failures likely
Very High	9	Very high number of failures likely
Almost certain	10	Failure almost certain

7.3 Rating parameters for Detection control

Detection	Scale	Description
Almost certain	1	Proven detection methods with high reliability
Very High	2	Proven detection methods available
High	3	Detection tools have high chance of detecting methods
Moderately High	4	Almost certain not to detect failure
Medium	5	Detection tools have moderate chance of detecting defect
Low	6	Detection tools have a low chance of detecting failure
Slight	7	Detection tools may not detect failure
Very Slight	8	Detection tools will probably not detect failure
Remote	9	Detection tools most likely will not detect failure
Impossible	10	Failure not detected





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Note: Individual contributory factor for each potential failure mode shall be rated. Other scale parameters may also be selected based on the process.

8.0 ACCEPTANCE CRITERIA FOR RISK ASSESSMENT BY FMEA

Acceptance criteria for FMEA are as follows:

S.No.	RPN Rating	Action Status	
1.	≥ 76	Critical	CAPA Required
2.	51 to 75	Major	CAPA Required
3.	26 to 50	Moderate	CAPA Required
4.	Up to 25	Minor	Not applicable

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9.0 PRE-RISK ASSESSMENT AS PER FMEA:

Name of facility/Utility/Equipment/Process/Operation: Automatic Measuring Cup Placement

			(8)		(0)	atrol	(D)	x D)		ity		Acti	on Resu	lts	
S.No.	Potential Failure Mode	Potential effect (s) of failure	Severity (s)	Potential cause/ Mechanism of failure	Occurrence (O)	Current Control	Detection (RPN (S x O)	Recommended action	Responsibility and TCD	Action	Severity	Occurrence	Detection	New RPN
1	Required Area (floor, Temperature, RH, Differential pressure) not proper for the Vibrosifter.	Equipment may not function as desired.	6	No or less clarity of the product requirement and machine functionality.	3	Approved layout is in place with dimensions & required environmental condition	3	54	Care has to be taken during Area Qualification	Enginee ring, QA, Producti on,					
2	Required parameter not defined in URS. / URS not proper for system	Systems not receive suitable for proper output of quality with all parameter as per specification. Affect the product quality.	4	No or less clarity of the product requirement and machine functionality.	3	Preparation of URS before procurement of equipment is in place with all pre-specified parameter.	2	24	Current control measures are adequate	NA	NA	NA	NA	NA	NA
3	Required utilities (electricity, purified water)are not available	Machine will not function as expected.	7	No or less clarity of the product requirement and machine functionality with respect to utility requirement.	2	URS is in place for system with all predefined requirement of utility like water, electricity.	1	14	Current control measures are adequate	NA	NA	NA	NA	NA	NA

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			(s)		<u>(o)</u>	ıtrol	D)	x D)		ity		Acti	on Resu	lts	
S.No.	Potential Failure Mode	Potential effect (s) of failure	Severity (Potential cause/ Mechanism of failure	Occurrence	Current Control	Detection (D)	RPN (S x O x	Recommended action	Responsibility and TCD	Action	Severity	Occurrence	Detection	New RPN
4	Wrong machine selection in terms of Dimension, capacity and output.	Installation will be affected if dimension is not considered. Output will also get affected if capacity is not considered.	6	No or less clarity of the machine.	2	URS is in place for dimension, capacity and rated output of the of the Vibrosifter	1	12	Current control measures are adequate	NA	NA	NA	NA	NA	NA
5	MOC and machine contact parts ,Seals & gaskets not meeting GMP requirement	Not meeting GMP requirements and product get affected.	7	No or less clarity of the machine contact part and MOC.	3	URS is in place for MOC (contact part should be of SS316 or 316L and non contact parts will be of SS304 and machine contact parts to fulfill GMP requirements. Gasket used shall be of food grade.	1	21	Current control measures are adequate	NA	NA	NA	NA	NA	NA

PRE RISK ANALYSIS FOR AUTOMATIC MEASURING CUP PLACEMENT (CEPHA BLOCK)

			(S)		<u> </u>	atrol	(Đ	x D)		ity		Action Resu		lts	
S.No.	Potential Failure Mode	Potential effect (s) of failure	Severity (s)	Potential cause/ Mechanism of failure	Occurrence (O)	Current Control	Detection (RPN (S x O)	Recommended action	Responsibility and TCD	Action	Severity	Occurrence	Detection	New RPN
6	Locking provision for castor wheel of sifter	Accident may happen.	10	No or less clarity about equipment safety measures.	2	Castor wheel with lock arrangement is defined in URS.	1	20	Current control measures are adequate	NA	NA	NA	NA	NA	NA
7	Equipment not received with the process safety measures.	Accident may happen.	10	No or less clarity about equipment safety measures.	2	Requirement of Safety measures like LID, discharge port, Earthing, Flame proof motor, is defined in URS.	1	20	Current control measures are adequate	NA	NA	NA	NA	NA	NA
8	Dust collector not provided to suck powder generated	Dusting and congestion occurs	6	No or less clarity about equipment safety measures.	2	Dust collector unit provided on area mentioned on the lay out.	1	12	Current control measures are adequate	NA	NA	NA	NA	NA	NA





9.1 REVIEW OF RISK ASSESSMENT AS PER FMEA AFTER ACTION TAKEN:

Action Results											
Action Taken	Severity	Occurrence	Detectability	Remarks							





10.0 RISK CONTROL MEASURES **Investigation/ findings:** (an extra sheet can be used if space is insufficient) **Corrective Action:** (an extra sheet can be used if space is insufficient)

(Sign/Date)





S	ummary:
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C	Conclusion:
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12.0 FINAL REPORT APPROVAL:

The final report shall be signed after identifying all the risks and critical control parameters. All the reports or documents have been attached to the respective report (if applicable).

Signature in the block below indicates that all the control measures taken are documented and have been reviewed and found to be acceptable.

Department	Name	Designation	Signature	Date
Quality assurance				
Production				
Quality control				
Engineering				
Store				
Head-QA				