

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

*Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai
Approved by Pharmacy Council of India, New Delhi.
Coimbatore -641035*



COURSE NAME: INDUSTRIAL PHARMACY-II

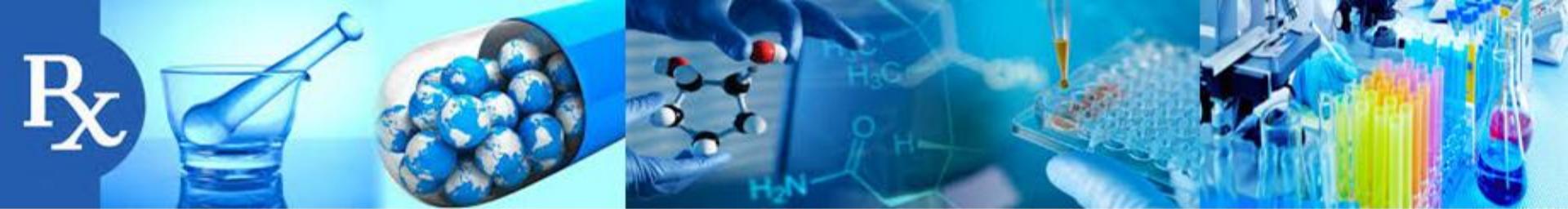
(BP 702 T) IV YEAR / I SEM

TOPIC: CHANGE CONTROL



CHANGE CONTROL





CONTENTS/OBJECTIVES OF PRESENTATION:

What is Change and change control

Importance of Change control System

How it is Proceed in our company

Change Control Flowchart in Pharma

Stage 1: Identification of Change

The change control process in pharma begins when a change is proposed.

Stage 3: Preliminary Assessment/Review

Review stage serves as the initial screening phase in the change control pharmaceutical process.

Stage 5: Approval or Rejection

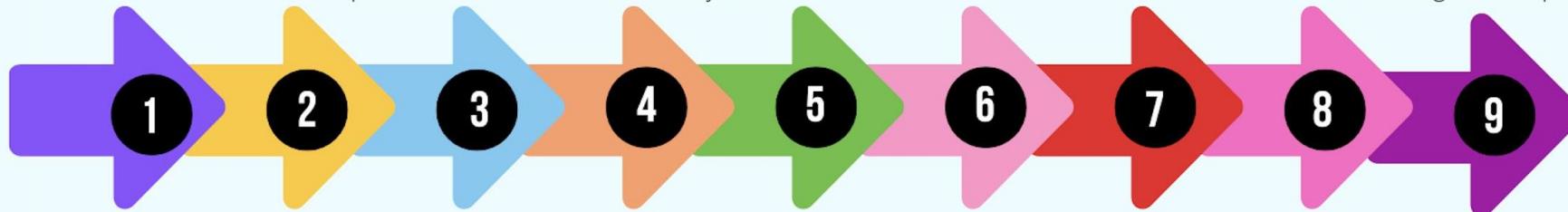
Based on the detailed evaluation, the change may be approved or rejected.

Stage 7: Implementation

Properly executing this stage is crucial for ensuring the integrity of the change and maintaining the standards.

Stage 9: Closure & Review

The final step in the change control process is to formally conclude the initiative and reflect upon its long-term implications.



Stage 2: Justification for Change

This step of the change control pharmaceutical procedure acts as a gatekeeper, ensuring that changes are not made hastily or without proper reasoning.

Stage 4: Detailed Evaluation

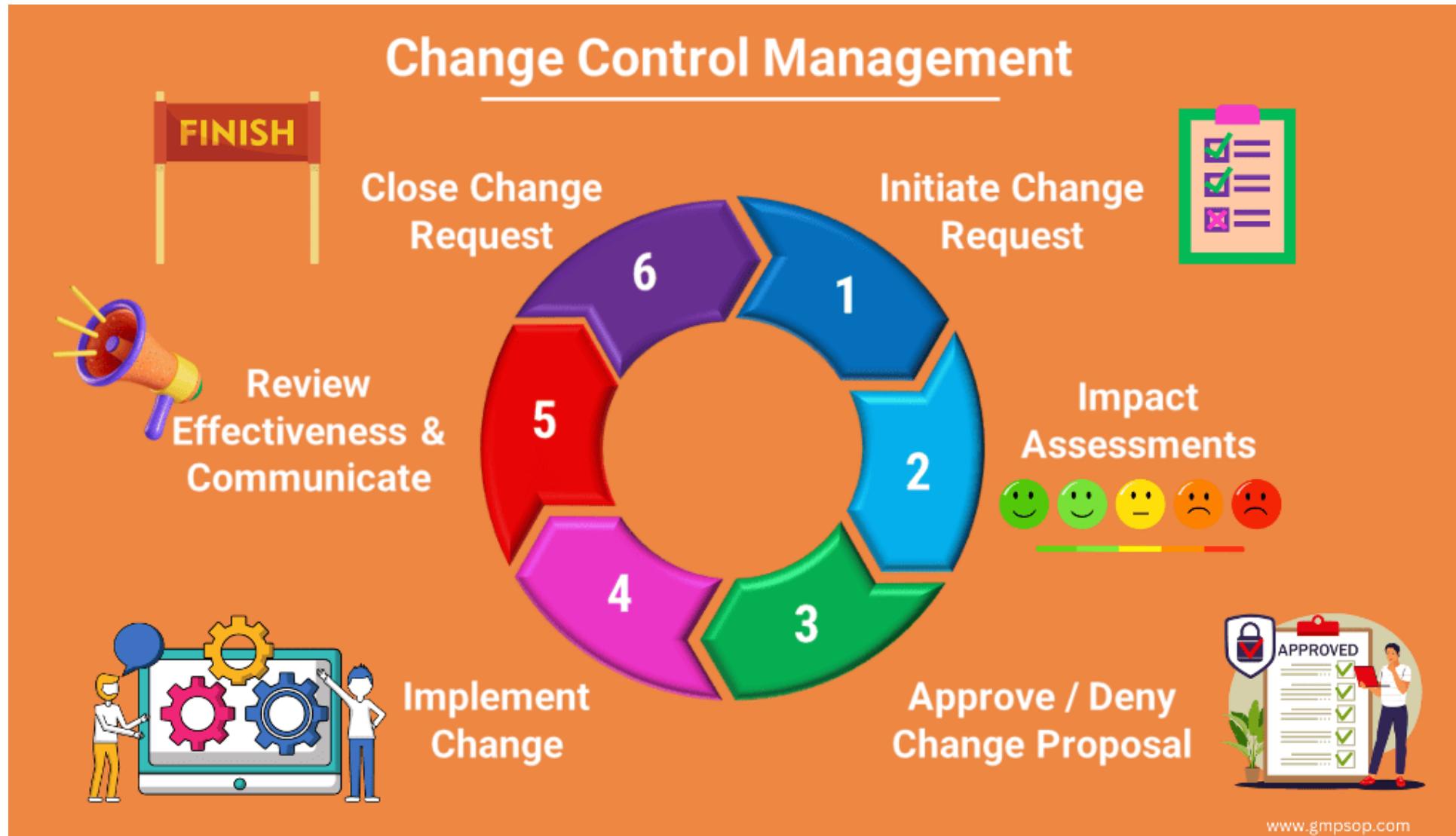
If the change is approved for further consideration, a detailed evaluation is performed.

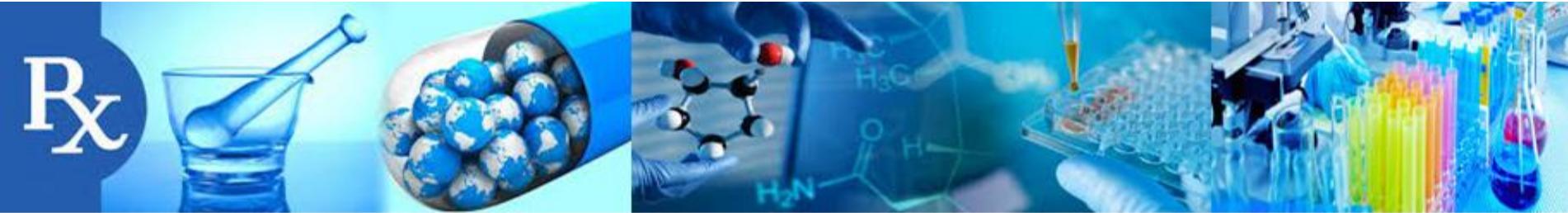
Stage 6: Communication

Throughout the process, effective communication is essential in change control pharmaceutical process.

Stage 8: Verification

After the change has been implemented, it's crucial to verify that it was executed correctly and that there are no unintended consequences.

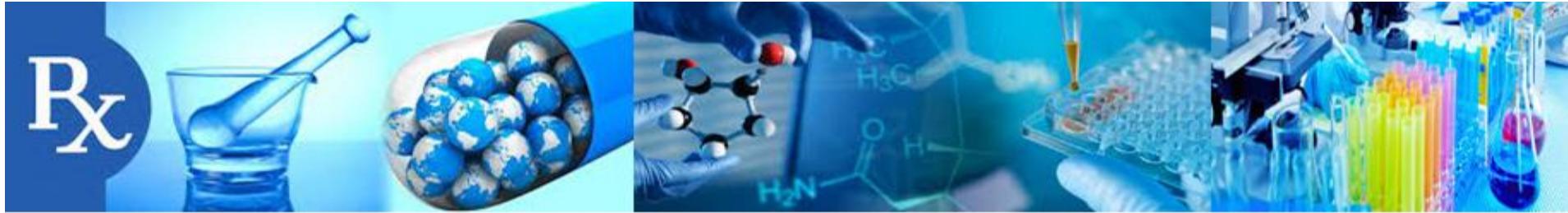




WHAT IS CHANGE?

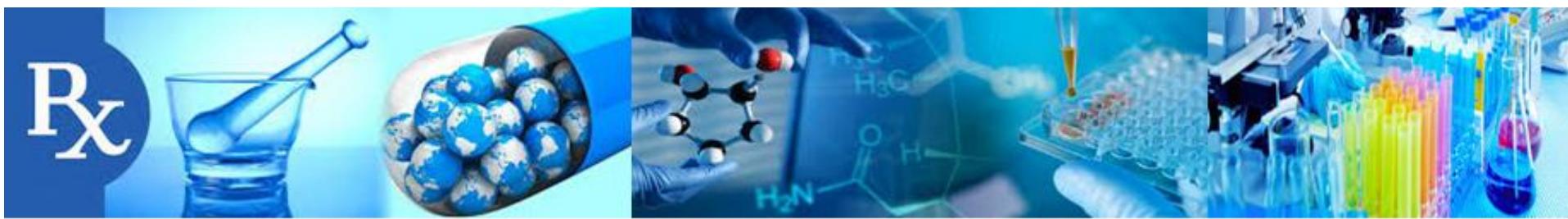
Any Amendment in the approved Process , Specifications , SOP's, Vendor, Batch Size etc which effect the Product quality attributes (Safety, Efficacy and Potency) or Regulatory, statutory or ISO requirements whether minor or major will be considered as CHANGE



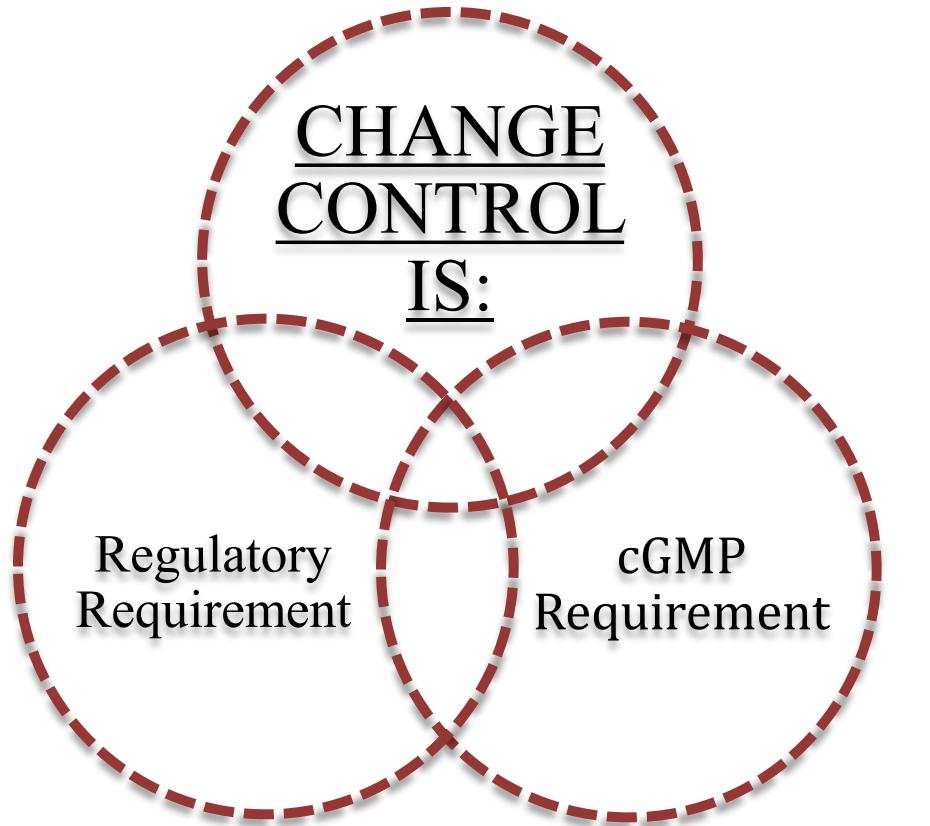


CHANGE CONTROL:

A Process that ensures that changes to materials, methods, equipment, software etc are properly documented , reviewed , approved and traceable is known as Change control



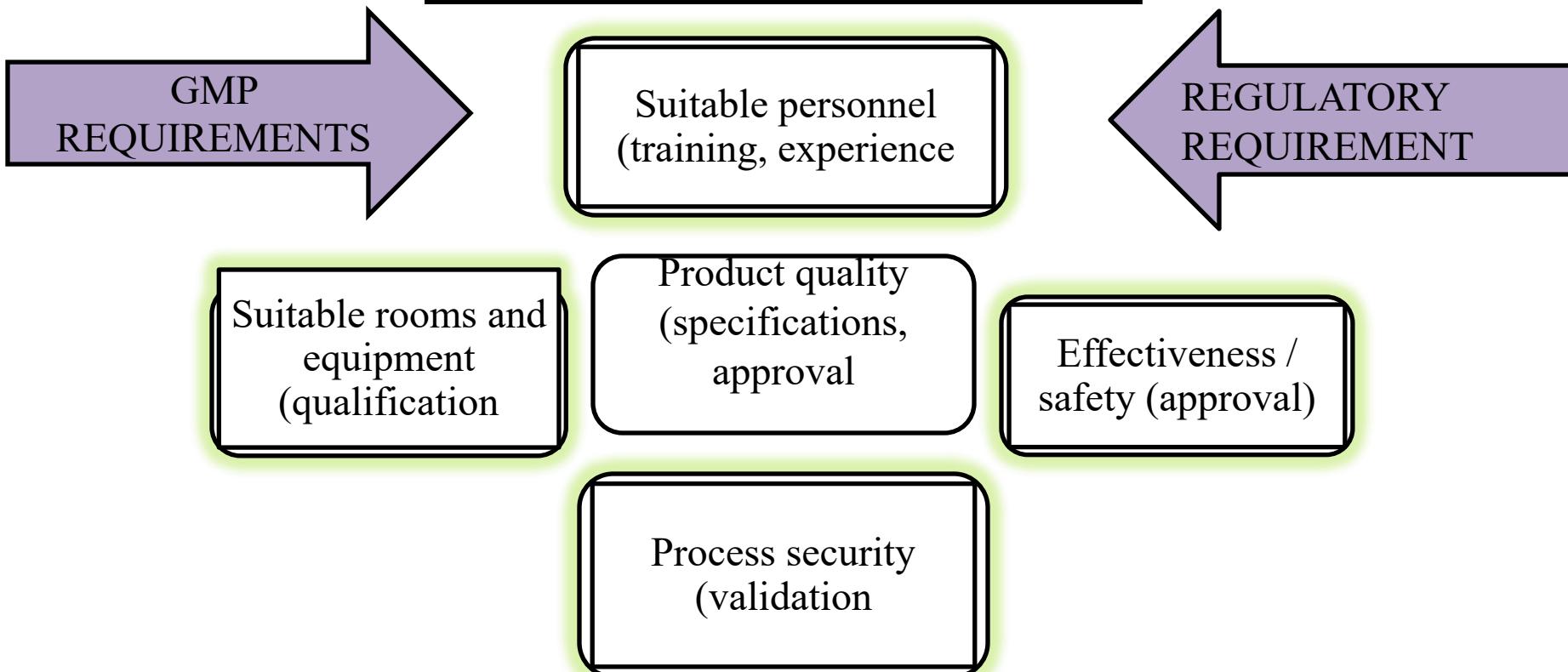
WHY IT IS IMPORTANT

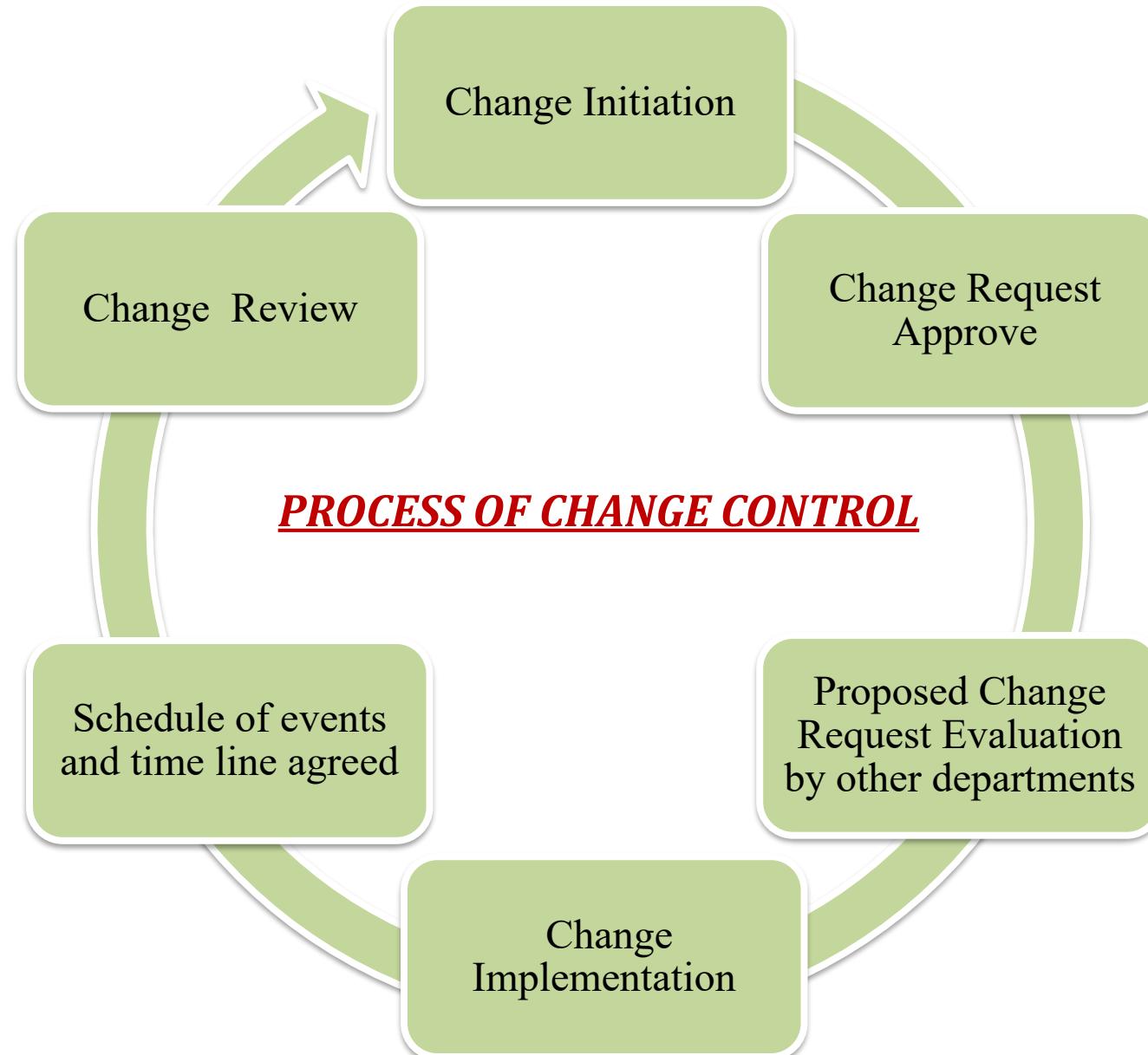


If change is not controlled , not implemented properly then any Product hazard may occur



EFFECTS OF SINGLE CHANGE ON SEVERAL AREAS AT SAME TIME







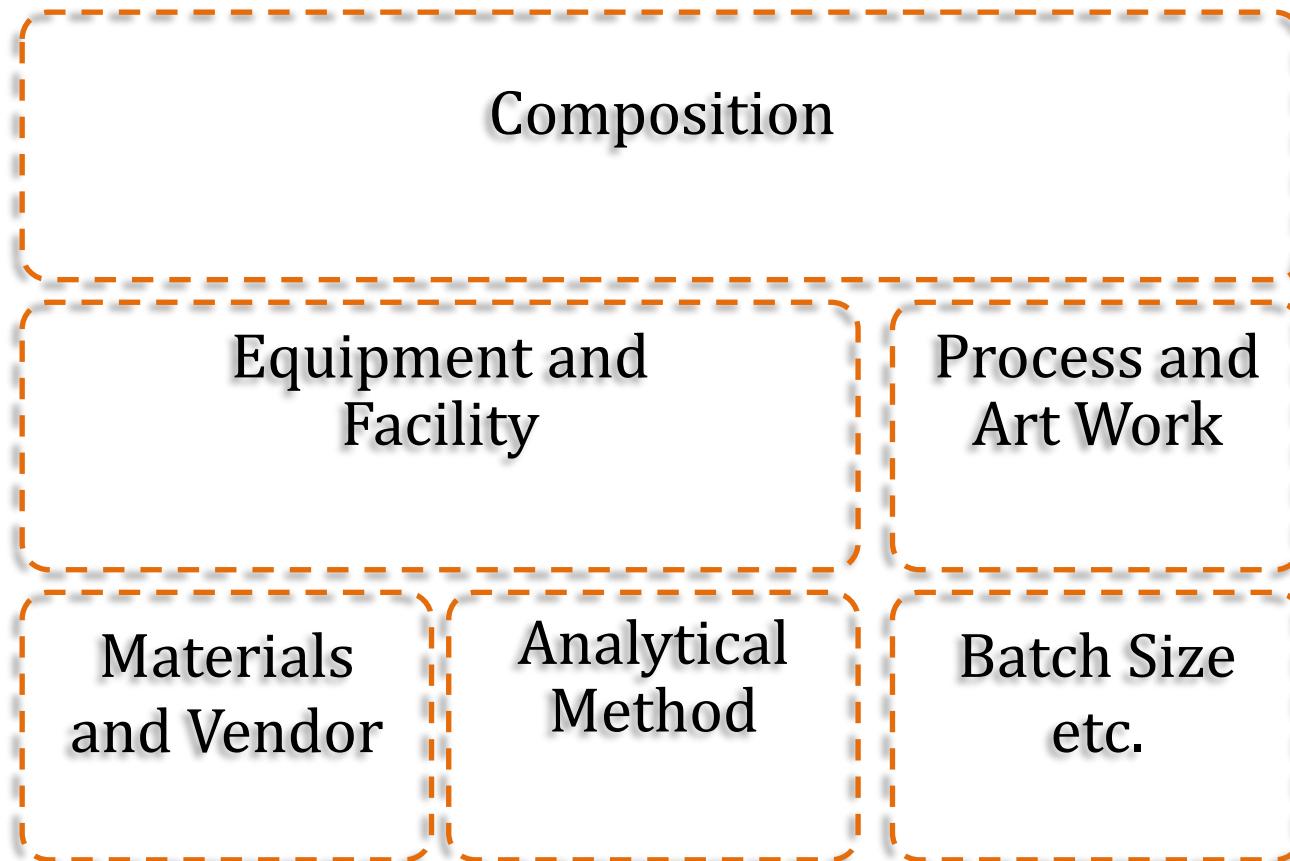
1. CHANGE INITIATION

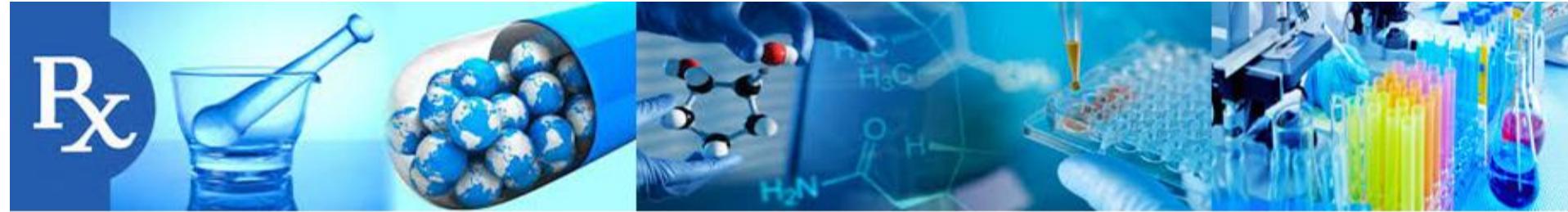
a) INITIATOR INFORMATION:

a) :	<table border="0"><tr><td style="width: 30%;">Name</td><td><input type="text"/></td></tr><tr><td>Department</td><td><input type="text"/></td></tr><tr><td>Date, CCF no. etc</td><td><input type="text"/></td></tr></table>	Name	<input type="text"/>	Department	<input type="text"/>	Date, CCF no. etc	<input type="text"/>
Name	<input type="text"/>						
Department	<input type="text"/>						
Date, CCF no. etc	<input type="text"/>						



b) CATEGORY OF CHANGE (WHERE THE CHANGE IS REQUIRED):





c) DESCRIPTION OF PURPOSED CHANGE:

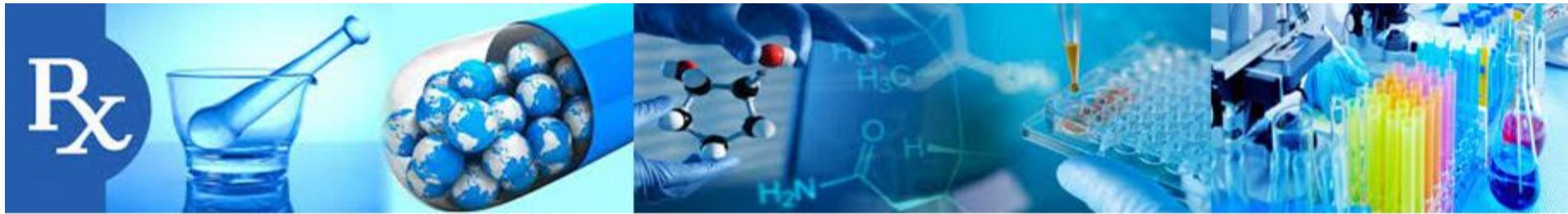
Initiator will provide full description of required change along with related information



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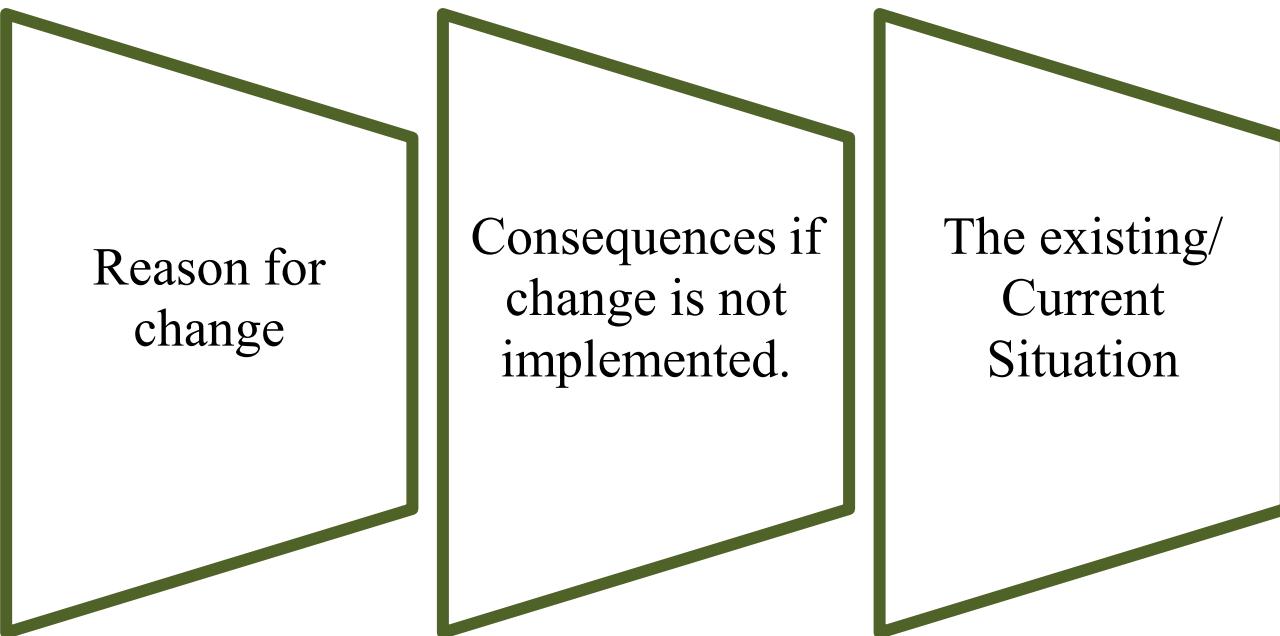


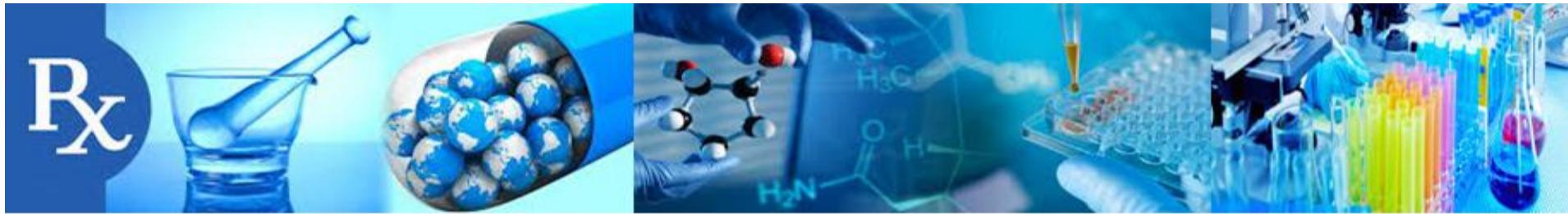
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D) REASON FOR CHANGE:

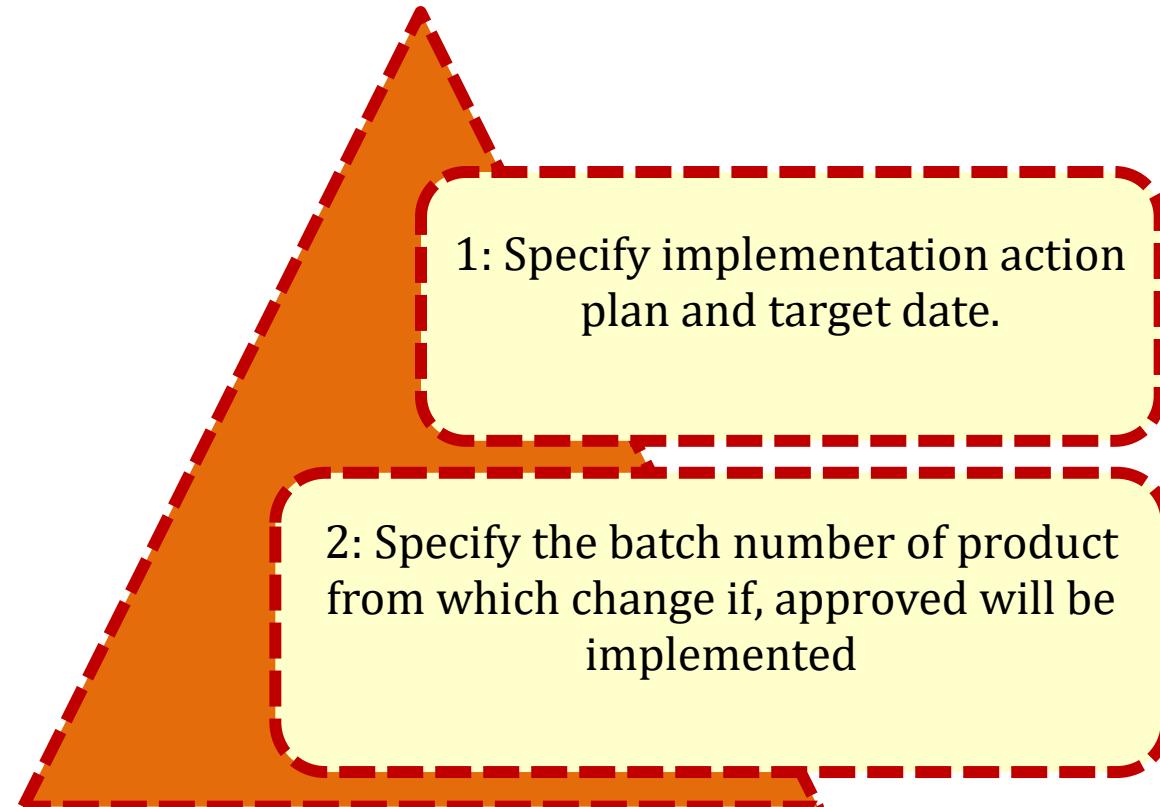
The initiator will provide the:





E) RECOMMENDED ACTION PLAN.

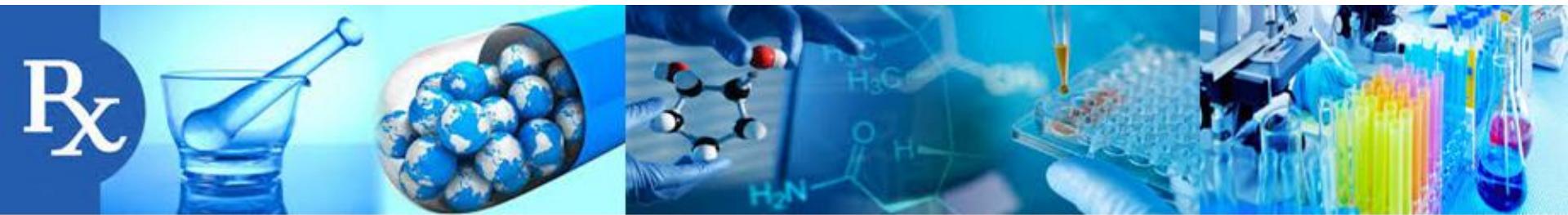
The Initiator will:





2- CHANGE REQUEST APPROVE: (INITIAL REVIEW BY QUALITY ASSURANCE)

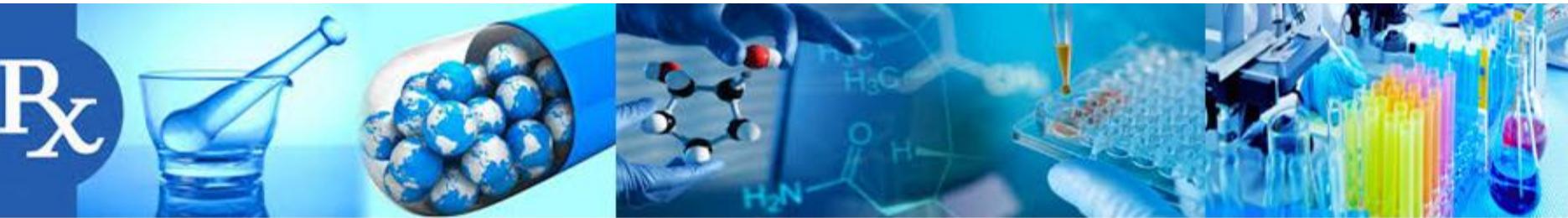
- The Change request form will be Logged by Quality Assurance department.
- Quality assurance Manager will Consider the nature of change either major or minor.



- Quality Assurance Manager will review that the proposed change may have impact on:

Regulatory	Yes	No
EMS	Yes	No
cGMP	Yes	No
Technical	Yes	No
Others	Yes	No

- Q.A Manager will also Review the Proposed change for Risk management.
- The quality Assurance Manager will approved/reject the Change Control Request along with his Comments.



4. SCHEDULE OF EVENTS AND TIME LINE AGREED:

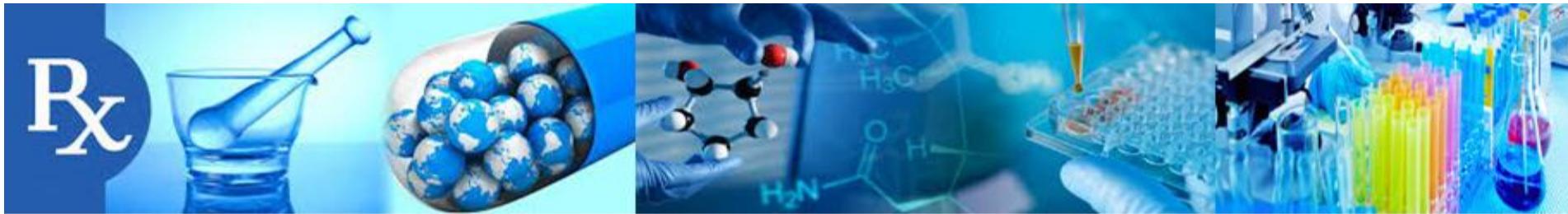
Quality assurance department will schedule the events for implementation

5. CHANGE IMPLEMENTATION:

Quality Assurance department will checked that the Change is implemented

6.CHANGE REVIEW:

Quality Assurance Manager will review the implemented change in order to access the impact of Change

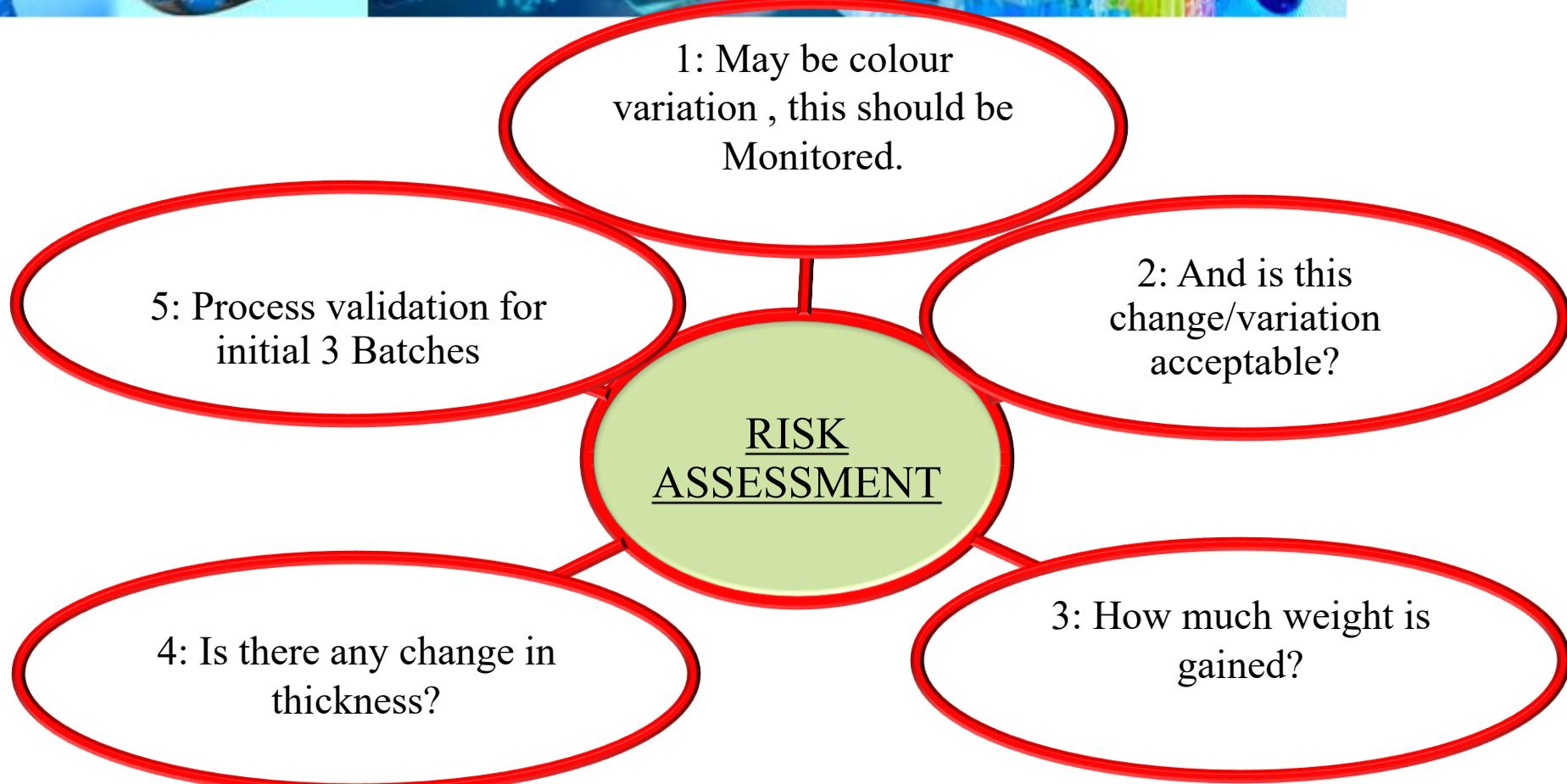
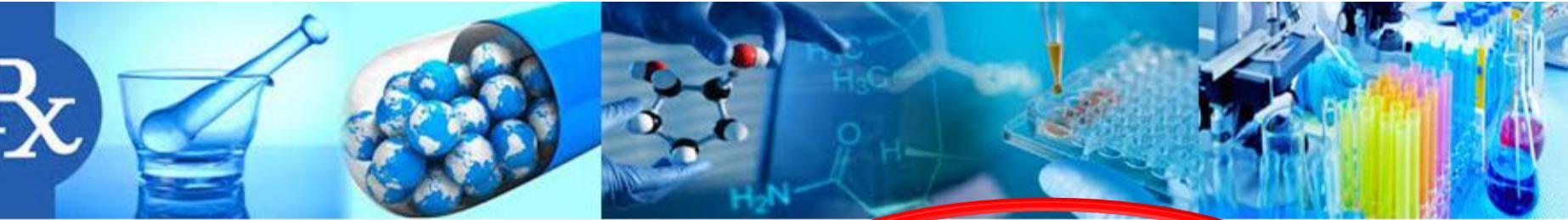


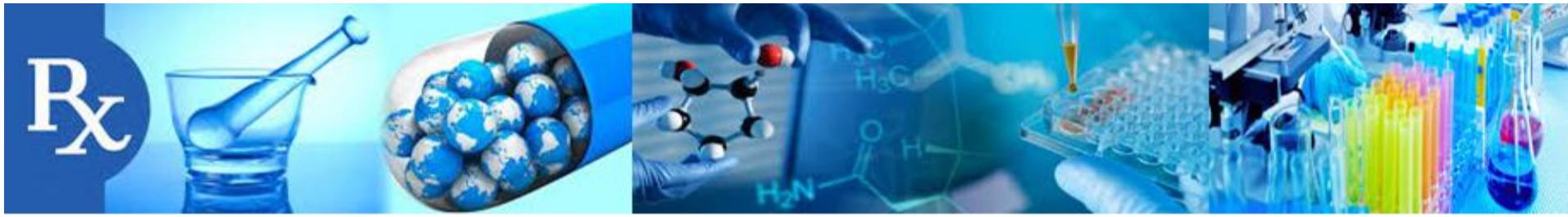
“EXAMPLE”

“CHANGE IN COATING PROCESS FROM SOLVENT COATING TO AQUEOUS COATING “

Description:

Products Dapakan 500mg film coated tablet.
Opadry OIC 7000 is afterwards coated with
Opadry II.





“MATERIAL MANAGEMENT”

Trained Staff?



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IMPACT EVALUATION:

All those department concerned this change:

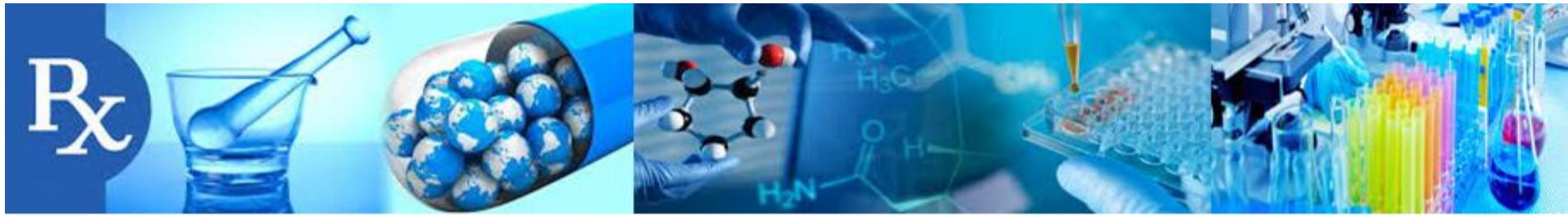
Supply Chain:	YES	NO
Quality Control:	YES	NO
Quality Assurance:	YES	NO
Production:	YES	NO
Regulatory:	YES	NO



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Supply Chain: Arrangement of material

Q.C : Specs change

Q.A : Documents changes

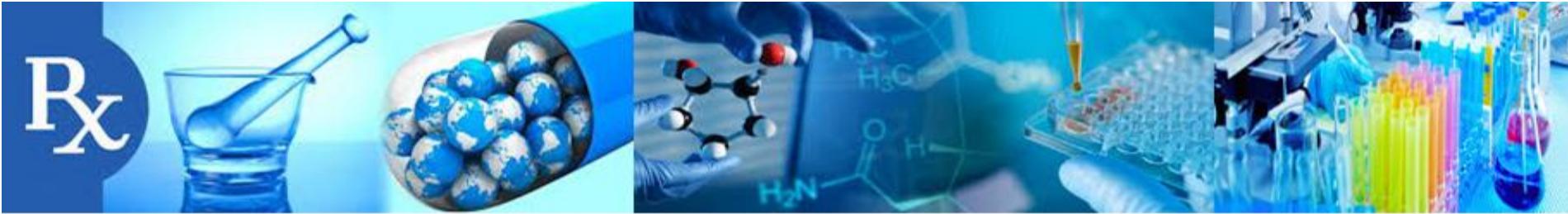
Production: facilities/Trained staff

Regulatory : Informed concerned Regulatory Bodies



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REFERENCES FROM REGULATORY BODIES:

ICH Quality Guide lines.

Q7

<http://www.ich.org/products/guidelines/quality/article/quality-guidelines.html>

PIC/S

PIC/S Recommendations PI 006-3

<http://www.picscheme.org/>

WHO

WHO GMP guidelines – Technical Report series n. 937

<http://apps.who.int/medicinedocs/en/d/Js20108en>

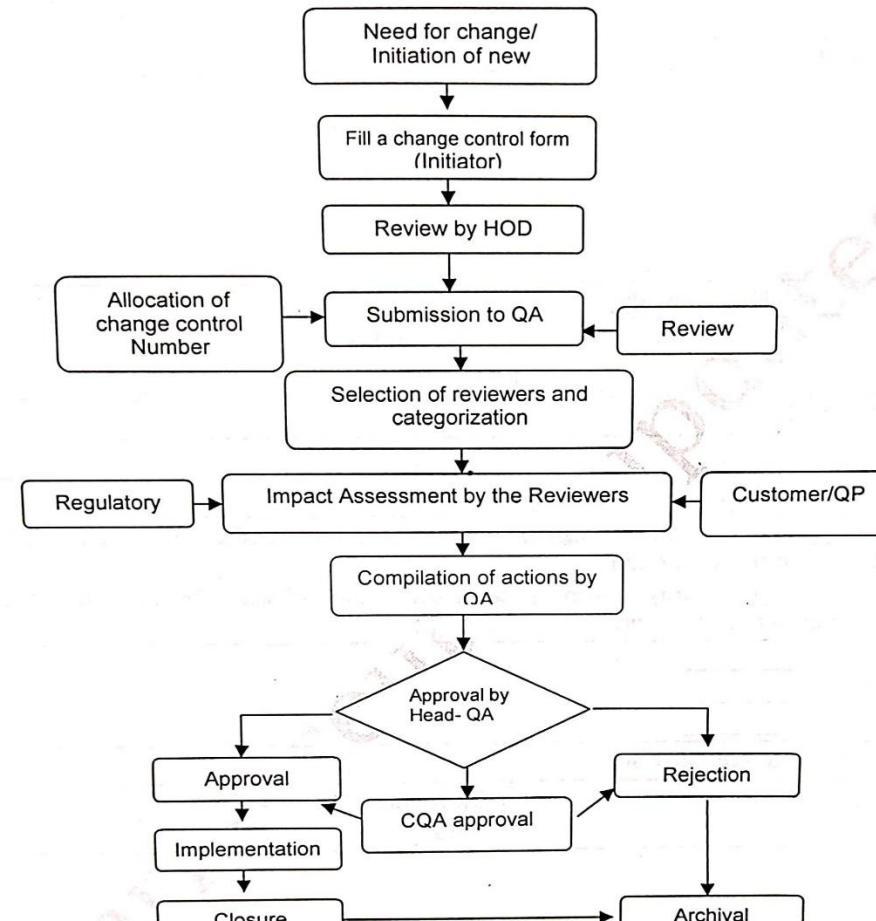


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Flow of Change control



HOD : Head of Department,

QP : Qualified Person,

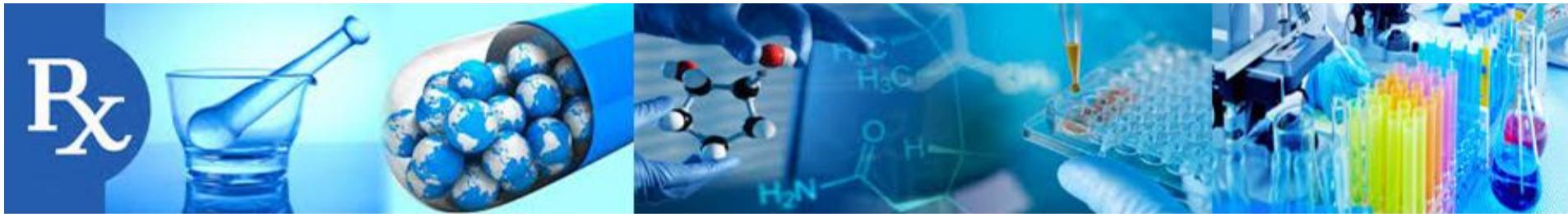
CQA : Corporate Quality assurance



- **Define Change Control.** Explain its importance in pharmaceutical quality management systems.
- **List and explain the types of changes** managed under a Change Control system with suitable examples.
- **Describe the steps involved in the Change Control procedure** in a pharmaceutical manufacturing unit.
- **Explain the role of Change Control in compliance with GMP and SUPAC guidelines.**
- **Differentiate between minor, major, and critical changes** in Change Control with examples.

REFERENCES

- Remington: *The Science and Practice of Pharmacy*, 22nd Edition, Pharmaceutical Press.
- Kokate C.K., Purohit A.P., Gokhale S.B. – *Textbook of Pharmacy*.
- B. Suresh, S. B. Gokhale – *Pharmacy Education in India*.
- Lachman L., Lieberman H.A., Kanig J.L. – *The Theory and Practice of Industrial Pharmacy*
- Sharma, B.D. *Pharmacy Education in India: Past, Present and Future*. Indian Journal of Pharmaceutical Education and Research (IJPER).
- Rao, N. R. (2025). *Evolution of Pharmacy Profession in India*. International Journal of Pharmaceutical Sciences.
- Indian Journal of History of Science – Special issues on Ayurveda and traditional medicine.



THANK YOU



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