



PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

QUALITY RISK ASSESSMENT AND MITIGATION PLAN

QRA No.:

Name of Facility/Equipment/Utility/System/Activity/Procedure

Unit Operation: General Products And Steroids In Shared Manufacturing Facility

Date of Quality Risk Assessment:

Sr. No.	Item/ Function	Potential Failure Mode (Failure Mode)	Potential Effect of Failure (Effect)	Potential Cause/ Mechanism of Failure	Current Control	Reference	S	O	D	Risk Priority Number (S*O*D)	Recommend- ended Actions (if any)	Post Risk			
												S	O	D	RPN S*O*D
Facility Processes:															
1.	RM Sampling	<ul style="list-style-type: none"> ➤ Cross contamination ➤ Personnel/ Environment contamination while handling steroid material/product along with general products 	<ul style="list-style-type: none"> ➤ Poor quality ➤ Steroid products or materials being handled pose a risk to the operators and/or the public and/or the environment 	<ul style="list-style-type: none"> ➤ Inadequate area / Environment for sampling ➤ Inadequate handling of Product/material while Sampling ➤ Inadequate Gowning procedure ➤ No defined procedure for sampling to avoid cross contamination. ➤ Inadequate control on sampling tools ➤ Inadequate cleaning procedure for sampling device ➤ Lack of training 	<ul style="list-style-type: none"> ➤ Dedicated sampling area has been provided for sampling of Steroid RM. ➤ Adequate sampling procedure has in place. ➤ Dedicated color coded gowning has been provided for personnel, working in steroid material exposure area to avoid cross Contamination. ➤ Dedicated sampling area has been provided for sampling of Steroid RM, due to that there is no chance of cross contamination. ➤ Cleaning procedure for Sampling tools defined based on cleaning validation. ➤ SOP has been available for sampling. ➤ Training has been imparted to concerned personnel on adequate sampling and gowning procedure. 	As Per SOP					<ul style="list-style-type: none"> ➤ Adequate control in place. No recommendat ion required. 	NA	NA	NA	NA



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2.	RM handling	<ul style="list-style-type: none"> ➤ Material spillage 	<ul style="list-style-type: none"> ➤ Loss of the quantity and contamination of sampling area. 	<ul style="list-style-type: none"> ➤ Adequate sampling procedure not followed. ➤ Appropriate sampling tools not used. ➤ Lack of trained personnel. 	<ul style="list-style-type: none"> ➤ Any spillage of material while handling considered as handling loss and same handled using the spillage kit to avoid any injury to chemist or operator working. ➤ Procedure for Collection, Handling and deactivation are in place. ➤ Training has been imparted to concerned employees. 	As Per SOP					<ul style="list-style-type: none"> ➤ Adequate control in place. No recommendat ion required. 	NA	NA	NA	NA
3.	Material safety	<ul style="list-style-type: none"> ➤ Improper handling and storage ➤ Improper physical and chemical properties ➤ Improper personal protection 	<ul style="list-style-type: none"> ➤ Cross contamination ➤ Poor product quality ➤ Individual protection of eye, skin, respiratory, and general hygiene 	<ul style="list-style-type: none"> ➤ Inadequate procedure to handle steroid materials. 	<ul style="list-style-type: none"> ➤ Training has been imparted to all employees on following personnel hygiene and safety. ➤ MSDS is in place providing details over how to handle material, individual safety measures also mentioned under the MSDS. ➤ Material is stored as per label instruction and by following respective procedure. 	As Per SOP & MSDS					<ul style="list-style-type: none"> ➤ Adequate control in place. No recommendat ion required. 	NA	NA	NA	NA



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4.	Gown Washing	➤ Cross contamination	<ul style="list-style-type: none"> ➤ Risk of contamination is high ➤ While using common washing machine for gown of general product along with gown of Steroid exposed area. ➤ Inadequate method to deactivate steroids material adhered on gown. 	<ul style="list-style-type: none"> ➤ Inadequate Gown washing system. ➤ Inadequate Method of neutralization of material adhered on outer surface of gown. 	<ul style="list-style-type: none"> ➤ Washing shall be done after validated Steroid material deactivation. Followed by sterilization hence there's no risk of contamination. ➤ Appropriate method has been developed to ensure neutralization/deactivation of Steroids material adhered on outer surface of gown and same shall be validated. 	As Per SOP					➤ Adequate control in place. No recommendat ion required.	NA	NA	NA	NA



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5.	Garment sterilization	➤ Garments are not sterilized by utilizing the validated parameters.	➤ Risk of Contamination and Microbial growth if not sterilized properly.	➤ Unqualified autoclave used for sterilization process ➤ Un-qualified load patterns used. ➤ Mechanical problem in autoclave. ➤ Working personnel lack of adequate knowledge.	➤ Washing will be done after validated Steroid material deactivation. Followed by sterilization hence there's no risk of contamination. ➤ Autoclave qualification has been done and a validated load pattern is provided to production. ➤ Preventive maintenance is done as per schedule. ➤ Trained Person handles the all autoclave processes.	As Per SOP & Autoclave Qualification Report					➤ Adequate control in place. No recommendat ion required.	NA	NA	NA	NA
6.	Sterile Garment storage	➤ Steroid and non-steroidal Garments hold up in same place	➤ Contaminated garment can also contaminate the aseptic area. ➤ Product contamination.	➤ No specific place provided for storing the steroid exposed area gowns	➤ No requirement of separate sterile garment storage cabinet because of Campaign manufacture Process due to that there is no chances of cross contamination in products.	As Per SOP					➤ Adequate control in place. No recommendat ion required.	NA	NA	NA	NA



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7.	Personnel	<ul style="list-style-type: none"> ➤ Inadequate gowning (uncleaned/damaged garment, Deficient procedure) ➤ Not following personnel hygiene 	<ul style="list-style-type: none"> ➤ Cross contamination ➤ Product quality 	<ul style="list-style-type: none"> ➤ Inadequate instructions/procedure on gowning of personnel ➤ Inadequate instructions/procedure on personnel hygiene ➤ Inadequate instructions/procedure on entry exit ➤ No training 	<ul style="list-style-type: none"> ➤ Training has been imparted to all employees on following personnel hygiene and entry exit procedure. Personnel hygiene and gowning strictly followed. ➤ Personnel are trained on Good manufacturing practice and Aseptic practices. Only trained personnel are allowed to work under aseptic area. ➤ Operators are provided with all PPEs while performing activities. ➤ Medical checkup plan is in place for all employees. New employees are examined for medical fitness and then only allowed to perform manufacturing operations. ➤ Dedicated color coded gowning shall be provided for personnel working in steroid material exposure area to avoid cross Contamination. 	As Per SOP					<ul style="list-style-type: none"> ➤ Adequate control in place. No recommendation required. 	NA	NA	NA	NA



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8.	Quality control	<ul style="list-style-type: none"> ➤ Personnel/ Environment contamination while handling steroid material/product along with general products 	<ul style="list-style-type: none"> ➤ Steroid products or materials being handled pose a risk to the operators and/or the public and/or the environment 	<ul style="list-style-type: none"> ➤ Inadequate handling of Product/material while QC Analysis ➤ Inadequate Gowning procedure ➤ Lack of training 	<ul style="list-style-type: none"> ➤ Isolator/ glove box recommended avoiding Personnel contamination while handling powder steroids. ➤ Training shall be imparted to all concerned employees. Only trained persons shall be authorized to enter in sampling area. 	As Per SOP & Training					<ul style="list-style-type: none"> ➤ Adequate control in place. No recommendation required. 	NA	NA	NA	NA
9.	RM Dispensing	<ul style="list-style-type: none"> ➤ Personnel/ Environment contamination while handling steroid material/product along with general products 	<ul style="list-style-type: none"> ➤ Personnel/ Environmental contamination ➤ Cross contamination ➤ Poor Quality 	<ul style="list-style-type: none"> ➤ Inadequate area / Environment for sampling ➤ Inadequate handling of Product/material while Dispensing ➤ Inadequate Gowning procedure ➤ Lack of training 	<ul style="list-style-type: none"> ➤ Adequate area is available for dispensing however for steroid material dispensing, no separate area available which can pose risk to person/Environment. ➤ Dedicated dispensing area has been provided for dispensing of steroid raw material ➤ Dedicated color coded gowning shall be provided for personnel working in steroid material exposure area to avoid cross contamination. ➤ Training shall be imparted to all concerned employees. Only trained persons shall be authorized to enter in dispensing area. 	As Per SOP & Training					<ul style="list-style-type: none"> ➤ Adequate control in place. No recommendation required. 	NA	NA	NA	NA



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10.	RM Dispensing	➤ Proper cleaning not done in dispensing area	➤ Risk of contamination of Raw Material.	➤ SOP for cleaning not followed. ➤ Lack of training	➤ Steroid material dispensing has been done in separate dispensing area and area has been cleaned by following appropriate cleaning procedure.	As Per SOP					➤ Adequate control in place. No recommendation required.	NA	NA	NA	NA
11.	RM Dispensing / Sampling	➤ Malfunctioning of Dispensing / Sampling Booth (RLAF)	➤ Cross contamination.	➤ No Qualification and maintenance program for dispensing booth/Sampling Booth.	➤ For steroid dispensing and sampling area, RLAF shall be qualified before usage and periodic validation shall be done as per schedule. Daily monitoring of differential pressure shall be done. ➤ Preventive maintenance schedule shall be prepared and followed.	DQIQOQ & PQ OF RLAF					➤ Adequate control in place. No recommendation required.	NA	NA	NA	NA
12.	Transfer the dispensed material from store to Manufacturing.	➤ Material spillage ➤ Material misplace during transfer.	➤ Directly impact to the product manufacturing & product quality.	➤ Inadequate handling during transferring of materials.	➤ All dispensed materials are kept in separate dispensing poly bags and closed with cable tie and after dispensing all dispensed materials are kept in a closed SS container with lock & key.	As Per SOP	4	1	1	4 Low category & Risk Accepted	➤ Adequate procedure no recommendation required.	NA	NA	NA	NA



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13.	Manufacturing Process	<ul style="list-style-type: none"> ➤ Cross contamination ➤ Personnel/ Environment contamination while handling steroid material/product along with general products 	<ul style="list-style-type: none"> ➤ Steroid products or materials being handled pose a risk to the operators and/or the public and/or the environment ➤ Poor product quality 	<ul style="list-style-type: none"> ➤ Inadequate handling of Steroid material/Product while; <ul style="list-style-type: none"> a. Charging material to Dry powder filling machine b. Charging of material to solution preparation tank ➤ Inadequate Gowning procedure ➤ Inadequate cleaning procedure ➤ Lack of training ➤ Lack of supervision of working behavior to ensure training effectiveness and compliance with relevant procedure. 	<ul style="list-style-type: none"> ➤ Campaign manufacture Process being used which is basically, Manufacture of an uninterrupted sequence of batches of the same product ; Steroid or Non steroidal in a given time period, followed by strict adherence to accepted control measures before switching to another product or different serotype on each manufacturing floor. ➤ Product wise BMR/instructions are followed for execution of batch and person involved in process are well trained. ➤ Batch to batch and Change over cleaning procedure are in place. Cleaning samples (Swab/Rinse) shall be tested for allowable previous product residue. ➤ Dedicated colour coded gowning has been provided for personnel working in steroid material exposure area to avoid cross contamination. 	As Per SOP & Batch Manufacturing Record					<ul style="list-style-type: none"> ➤ Adequate control in place. No recommendat ion required. 	NA	NA	NA	NA



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14.	Entry Exit Procedure in manufacturing area	<ul style="list-style-type: none"> ➤ Cross Contamination ➤ Area contamination 	<ul style="list-style-type: none"> ➤ Inadequate Man movement in manufacturing area lead to cross contamination/ Area contamination 	<ul style="list-style-type: none"> ➤ Inadequate movement Man ➤ Inadequate Entry Exit procedure 	<ul style="list-style-type: none"> ➤ Campaign manufacture Process being used for manufacturing of steroidal and Non Steroidal products at a time by the uninterrupted sequence of the same batches of the same product (Steroidal or No-Steroidal). ➤ Campaign Manufacturing is basically, Manufacture of an uninterrupted sequence of batches of the same product; Steroid or Non steroidal in a given time period, followed by strict adherence to accepted control measures before switching to another product or different serotype on each manufacturing floor. 	As Per SOP & Training					<ul style="list-style-type: none"> ➤ Adequate control in place. No recommendat ion required. 	NA	NA	NA	NA



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15.	Cleaning validation	<ul style="list-style-type: none"> ➤ Cross contamination 	<ul style="list-style-type: none"> ➤ Cross contamination 	<ul style="list-style-type: none"> ➤ Inadequate cleaning procedure ➤ Lack of training 	<ul style="list-style-type: none"> ➤ All steroidal products has been already considered in cleaning validation matrix and almost all manufacturing line have steroidal product as a worst case. ➤ Cleaning validation has been performed as per the determined worst case. ➤ Training shall be imparted to all concerned. 	As Per SOP & Cleaning Validation Report					<ul style="list-style-type: none"> ➤ Adequate control in place. No recommendation required. 	NA	NA	NA	NA
16.	Environment	<ul style="list-style-type: none"> ➤ Improper airflow ➤ Improper area cleaning/sanitization ➤ Inadequate control of DP, temperature/humidity ➤ Inadequate control on environment monitoring (viable-non viable) 	<ul style="list-style-type: none"> ➤ Cross contamination ➤ Product quality 	<ul style="list-style-type: none"> ➤ No interlocking system, Inadequate air flow ➤ Inadequate procedure on environment monitoring, area cleaning and sanitization ➤ Differential pressure, Temperature , RH controls are not maintained for clean rooms 	<ul style="list-style-type: none"> ➤ Approved procedures are available for environment monitoring, area cleaning and sanitization and same has been followed. ➤ Airlock rooms, entry exit change rooms, are provided. Differential pressure, temperature and RH in clean rooms are maintained and monitored regularly ➤ Production area is designed with unidirectional air flow of men and material to avoid mix-up/cross contamination. 	As Per SOP, RDS, AHU Validation					<ul style="list-style-type: none"> ➤ Adequate control in place. No recommendation required. 	NA	NA	NA	NA



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17.	AHU	<ul style="list-style-type: none"> ➤ Cross contamination through AHU ➤ Poor AHUs and inadequate control of air recirculation system ➤ Improper cleaning of AHU filters 	<ul style="list-style-type: none"> ➤ Area contamination followed by Product contamination 	<ul style="list-style-type: none"> ➤ No Dedicated Air handling units has been installed. ➤ AHU designed is not adequate. ➤ No procedure in place to clean AHU filters ➤ 	<ul style="list-style-type: none"> ➤ Dedicated Air handling units with once through circulation has been installed. ➤ AHU designed with the filters off 10 micron, 5 micron followed by 0.3 micron HEPA filters at plenum. ➤ Approved procedure in place to clean AHU filters 	DQIQ, OQ & PQ OF AHU					<ul style="list-style-type: none"> ➤ Adequate control in place. No recommendat ion required. 	NA	NA	NA	NA
18.	Material Movement	<ul style="list-style-type: none"> ➤ Material spillage ➤ Material misplace during transfer. 	<ul style="list-style-type: none"> ➤ Directly impact to the product manufacturing & product quality. 	<ul style="list-style-type: none"> ➤ Inadequate handling during transferring of materials. 	<ul style="list-style-type: none"> ➤ All materials for aseptic area have been transferred through Dynamic pass box in tightly closed container. 	As Per SOP	4	1	1	4 Low category & Risk Accepted	<ul style="list-style-type: none"> ➤ Adequate procedure no recommendat ion required 	NA	NA	NA	NA
19.	Manufacturing Process (Bulk solution sampling)	<ul style="list-style-type: none"> ➤ Incorrect sampling procedures ➤ Incompatibility of sampling containers ➤ Use of non-dedicated or disposable materials 	<ul style="list-style-type: none"> ➤ It can lead to low assay results. ➤ High bio-burden rate/growth. ➤ Products cross contamination. ➤ Batch failure. 	<ul style="list-style-type: none"> ➤ Incorrect sampling procedures. ➤ Sampling done by untrained person. ➤ Wrong sampling containers used. 	<ul style="list-style-type: none"> ➤ Product sampling done as per the respective SOP. ➤ Sampling of bulk solution done by trained personnel under presence of QA person. ➤ Cleaned & Sterilized containers (glass bottles) are used for sampling. 	As Per SOP	4	2	1	8 Low category & Risk Accepted	<ul style="list-style-type: none"> ➤ Adequate procedure no recommendat ion required. 	NA	NA	NA	NA



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20.	Product Filter	➤ Integrity test failure	➤ Product contamination	➤ Filter usage more than recommended cycle ➤ Filter use without ensuring integrity	➤ Dedicate filter are used for all products for filtration. ➤ Filter usage as per recommended cycle & maintained in log book for their cycle. ➤ Filter integrity checked before & after filtration process.	As Per SOP	4	2	1	8 Low category & Risk Accepted	➤ Adequate procedure no recommendation required.	NA	NA	NA	NA
21.	Product Filter	➤ Inadequate handling of Filter after Sterilization	➤ Direct impact on Product Sterility & Quality	➤ On line product sterilization facility not available.	➤ Product filter sterilized along with tank & Product line and after that no any manual interference allowed.	As Per SOP	4	2	1	8 Low category & Risk Accepted	➤ Adequate procedure no recommendation required.	NA	NA	NA	NA
22.	Filtration process	➤ Non-Integral filters used for filtration process	➤ Filled product remains non-sterile. ➤ High bio-burden results after pre filter. ➤ Chemical & Microbial contamination increases in solution.	➤ Damaged/faulty filters used for filtration process. ➤ Human error. ➤ Working personnel lack of adequate knowledge.	➤ Each filter has a "certificate of test" from supplier. ➤ Pre and post integrity test are conducted before and after filtration process respectively and print out attached with Batch manufacturing record. ➤ Training provided to persons.	As Per SOP & BMIR	4	2	1	8 Low category & Risk Accepted	➤ Adequate procedure no recommendation required.	NA	NA	NA	NA

Where: S=Severity; O=Occurrence Probability; D=Detection; Risk category 1-25RPN is Low risk, 26-50 RPN is Medium Risk, 51-125 RPN is High Risk.

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S.No.	Recommended Action	Responsible Person	Target Date of Completion
1.	NA	NA	NA
2.	NA	NA	NA

CAPA: Not required

If required, mention CAPA No.: NA

Quality Risk Management Team			Reviewed By Head Operations Sign & Date	Approved By Head QA Sign & Date
Name	Department	Sign & Date		



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QUALITY RISK ASSESSEMENT AND MITIGATION SUMMARY REPORT

Name of Equipment: General Products And Steroids In Shared Manufacturing Facility

Verification of Action Plan: NA

Remarks (if any): The entire above failure mode and their Severity, Occurrence, Detection rating done and RPN No. is found between 3 to 12. Hence Risk is detected as low which is acceptable.

Verified By
QA
Sign & Date

Approved By
Head QA
Sign & Date