### **INSPECTION CHECKLIST (MODEL)**

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Date of Inspection	Name of the Firm and Address		
Firm's Representative	License No. of	Firm and Validity	
Inspected by		Telephone No. of Firm	
	Drugs Control Administration, Telangana State. (Names & Designation of	Fax. No. of Firm	
	Inspecting Officers)	E-mail ID of Firm	
Constitution of the Firm			
List of Directors/Partners/Proprietor			
Purpose of Inspection			
Any Certificates held by the firm (ISO,WHO etc.,)			
Guidelines used for assessing compliance	Indicate the Rules/ Schedule-M an provisions of Drugs and Cosmetic	÷	
Categories of drugs manufactured (e.g. Solid Oral Dosage Forms (Beta Lactams/Non Beta Lactams) /Liquid Orals/Semi- solids/Sex Hormones/ Cytotoxics etc. and <i>production capacity</i> Last two years turnover of			
Last two years turnover of the firm (1) Govt. Supply (2) Trade			

	Schedule M Part-I –Good Manufacturing Pract GENERAL REQUIRE	
1	Location and Surroundings:	
	Whether the factory building is so situated and have	
	such measures to avoid risk of contamination from	
	external environment including open sewage, drain,	
	public laboratory or any other factory which produces	
	disagreeable or obnoxious, odour, fumes, excessive	
2	soot, dust, smoke, chemical or biological emissions.	
2	Building and Premises:-	
2.1	Whether the building has been designed contructed and	
	maintained to suit the manufacturing operations so as to	
	production of drugs under hygienic conditions.	
2.2	Whether the building confirm to the conditions laid	
	down in the Factories Act, 1948.	
2.3	Whether the premises used for manufacturing	
	operations and testing purposes is:	
	a) Compatible with other drug manufacturing	
	operations that may be carried out in the same or adjacent area	
	b) Adequately provided with working space to allow	
	orderly and logical placement of equipment, materials	
	and movement of personal so as to avoid risk of mix-up	
	between different categories of drugs and to avoid	
	possibility of the contamination by suitable mechanism.	
	c) Designed/constructed/maintained to prevent entry of	
	insects, pests, birds, and rodents.	
	d) Whether interior surface of (walls, floors, and	
	cellings) are smooth and free from cracks, and permit	
	easy cleaning	
	e) Whether the production and dispensing areas are well	
	lighted and effectively ventilated, with air control	
	facilities.	
	f) Whether the drainage system, is so designed as to	
	prevent back flow and to prevent insects and rodents	
3	entering the premises.	
3	Water System:-	
3.1	Whether the unit has validated system for treatment of	
	water drawn from own or any other source to render it	
	potable in accordance with standards specified by BIS	
	and water is stored ensuring freedom from	
	microbiological growth.	
3.2	Whether water tank are cleaned periodically and records	
	maintained thereof.	
4	Disposal of waste:-	

	Whether the unit has obtained consent for air and water	
	from pollution control board	
	-	
5	Warehousing Area:-	
5.1	Whether adequate areas have been allocated for	
	warehousing of Raw Materials, Intermediates,	
	Packaging Material, products in quarantine, finish	
	products, rejected or returned products.	
5.2	Whether the warehousing areas have good storage	
	conditions. Are they clean and dry and maintained with	
	in acceptable temparature limits.	
5.3	Whether proper racks, bins and platforms have been	
	provided for the storage	
5.4	Whether receiving and dispatch bays are maintained.	
5.5	Whether separate sampling area for active Raw	
0.0	Materials and Excipients is maintained.	
5.6	Whether highly hazardous, poisonous and explosive	
	materials, narcotics and psychotropic drugs are stored in	
	safe and secure areas.	
5.7	Whether printed packaging material is stored in safe,	
	separate and secure areas.	
5.8	Whether separate dispensing areas with proper supply	
	of filtered air and dust control facility are provided for	
	B- Lactum, sex Hormones and cytotoxic substances or	
	any special category of product.	
5.9	Whether pest control is done regularly.	
6	Production area	
6.1	Whether the production area has been designed to allow	
	uni-flow and logical sequence of operations.	
6.2	Whether separate dedicated and self-contained facilities	
	have been provided for the production of Beta lactum,	
	Sex Hormones and Cytotoxic substances.	
6.3	Whether service lines are identified by colours for	
	nature of supply and direction of the flow.	
7	Ancillary areas	
7.1	Whether rest and refreshment rooms are separate and	
	not leading directly to the manufacturing and	
	warehouse.	
7.2	Whether Ancillary areas are adequate in area as per	
	rules in every section of the production	
8	Quality Control Area:-	
8.1	Whether separate areas have been provided each for	
	physico chemical, biological, microbiological and	
	instrumental analysis.	
8.2	Whether adequate space have been provided to avoid	
	mix-up and cross contamination and also suitable	
	storage space for test samples, returned samples,	
	reference standards, reagents and records.	
8.3	Whether separate AHU's are provided for biological,	
-		

	microbiological and radio iso-topes testing areas.	
9	Personnel:-	
9.1	Whether the manufacturing and testing of drugs is	
	conducted under approved technical staff	
9.2	Whether personal for Quality Assurance has been	
	designated	
9.3	Whether number of personnel employed is adequate and	
	in direct proportion to the workload.	
9.4	Whether the personnel are provided with regular in-	
	service training.	
9.5	Names of Technical Staff	For Manufacturing:-
		For Analysis:-
0.6	Whather had of O.C. is independent of manufacturing	
9.6	Whether head of Q.C. is independent of manufacturing unit	
10	Health, Clothing and Sanitation of Workers:-	
10	Heartin, Clothing and Samtation of Workers	
10.1	Whether personal handling Beta lactum antibiotics are	
10.1	tested for pencillin sensitivity before employment.	
10.2	Whether personnels in handling of sex hormones,	
10.2	cytotoxic and other portent drugs are periodically	
	examined for adverse effect. They should be moved out	
	by rotation.	
10.3	Whether all personnels have undergone medical	
	examination including eye examination and all free	
	from Tuberculosis, skin and other communicable or	
	contagious diseases and records are maintained thereof.	
10.4	Whether all personnel's are trained to ensure high level	
	of personnel hygiene.	
10.5		
10.5	Whether proper uniforms and adequate facilities for personal cleanliness such as wash basin and dryers	
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10.5	Whether proper uniforms and adequate facilities for personal cleanliness such as wash basin and dryers	
10.5	Whether proper uniforms and adequate facilities for personal cleanliness such as wash basin and dryers	
	Whether proper uniforms and adequate facilities for personal cleanliness such as wash basin and dryers towels disinfectant are provided. Manufacturing Operations and Controls:-	
	Whether proper uniforms and adequate facilities for personal cleanliness such as wash basin and dryers towels disinfectant are provided.Manufacturing Operations and Controls:-Whether the contents of all vessels and containers used	
11	<ul> <li>Whether proper uniforms and adequate facilities for personal cleanliness such as wash basin and dryers towels disinfectant are provided.</li> <li>Manufacturing Operations and Controls:-</li> <li>Whether the contents of all vessels and containers used in manufacture and storage is conspicuously labeled</li> </ul>	
11	Whether proper uniforms and adequate facilities for personal cleanliness such as wash basin and dryers towels disinfectant are provided.Manufacturing Operations and Controls:-Whether the contents of all vessels and containers used	

	and stage of manufacture along with signature of	
	technical staff.	
11.2	Whether products not prepared under aseptic conditions	
	are free from pathogens.	
12	Precautions against mix-up and cross-	
	contamination:-	
12.1	Whether proper AHU, pressure differential,	
	segregation, status labeling have been provided to	
	prevent mix-up and cross contamination.	
12.2	Whether processing of sensitive drugs like Beta lactum	
	Antibiotics and Sex Hormones is done in segregated	
	areas with independent AHU and proper pressure	
	differentials along with demonstration of effective	
10.0	segregation of these areas with records.	
12.3	Whether line clearance is performed according to and	
12.4	appropriate checklist and records. Whether packing lines are independent and are	
12.4	adequately segregated.	
12.5	Whether segregated and secured area is provided for	
12.5	recalled, rejected and re-processed materials.	
13	· · ·	
13.1	Whether the premises are cleaned and maintained in an	
	orderly manner so as to free from accumulated waste,	
	dust and any other materials along with maintenance of	
	a validated cleaning procedure.	
13.2	Whether the manufacturing areas are used as the	
	general thoroughfare.	
13.3	Whether a routine sanitation program has been properly	
	recorded.	
	Raw Materials:-	
14.1	Whether the records of Raw Materials are maintained as	
	per Schedule U	
14.2	Whether they are stored in an orderly fashion to permit	
	batch segregation and stock rotation by a FIFO	
110	principle.	
14.3	Whether they are labeled and stores as per their status -	
14.4	Under Test, Approved and Rejected.	
14.4	Whether integrity of the containers of the Raw Material	
14.5	is intact.	
14.5	Whether approved vendor list is provided. Equipment:-	
15.1	Whether the equipments are designed aiming to	
15.1	minimize risk of error and permit effective cleaning in	
	order to avoid cross contamination, build up of dust and	
	provided with log book where ever necessary	
15.2	Whether balances and other measuring equipments with	
15.2	appropriate range are available in the Raw Material	
	stores & production areas and they are calibrated in	
	accordance with SOP maintained.	

15.3	Whether the parts of the equipments that come into	
15.5	contact with the product are not reactive so as not to	
	affect the quality of the products.	
15.4	Whether the defective equipments are removed from	
10.1	production areas and properly labeled.	
15.5	Check whether lubricants used in the equipment's	
15.5	contaminate the products	
16	Documentation and Records:-	
16.1	Whether the documents are prepared and reviewed as	
10.1	per rules and to provide an audit trail.	
16.2	Whether the records are made at the time of each	
10.2	operation in such a way that all significant activities	
	concerning to the production are traceable. Records and	
	SOPs to be retained at least one year after the expiry of	
	finish products during which all relevant data's should	
	be readily available.	
17	Labels and Other Printed Materials:-	
17.1	Whether different color codes are used to indicate the	
17.1	status of a product	
17.2	Whether printed packaging materials, product leaflets,	
17.2	etc., are stored separately to avoid chances of mix-up	
17.3	Whether packaging and labeling materials are examined	
17.5		
17.4	by the quality control department	
17.4	Whether records of receipt of all labeling and packaging materials are maintained	
18		
-	Quality Assurance:-	
18.1	Whether the system of quality assurance has ensured	
	that: (a) the products are designed and developed in accordance with GMP	
	(b) The adequate arrangement are made for	
	manufacture, supply and use of the correct starting and	
	packing materials.	
	(c) Adequate controls on Raw Materials and other in	
	process controls, calibration and validation are carried	
	(d) the finished product is correctly processed and	
	checked in accordance with the established procedures.	
	(e) Pharmaceuticals products are not released for sale	
	unless signed and certified by authorized persons as per	
10	label claim	
19	Self Inspection and Quality Audit:-	
	Whathar the firm has constituted a solf inspection team	
	Whether the firm has constituted a self inspection team	
	supplemented with a quality audit procedure to evaluate	
20	supplemented with a quality audit procedure to evaluate that GMP is being followed	
<b>20</b>	supplemented with a quality audit procedure to evaluate that GMP is being followed Quality Control System:-	
<b>20</b> 20.1	supplemented with a quality audit procedure to evaluate that GMP is being followed	

20.2	Whether SOPs are available for sampling, inspecting,	
20.2	testing of Raw Materials Finish products and Packing	
	Materials and also for monitoring environmental	
	conditions.	
20.3	Whether reference samples from each batch of the	
	products are maintained	
20.4	Whether all instruments are calibrated and testing	
	procedure validated before they are deducted for routine	
	testing	
20.5	Whether Pharmacopoeias, reference standards, working	
	standards and technical books as required are available	
21	Specifications:-	
	Whether specifications for Raw Materials, Packaging	
	Materials, Product containers enclosures, Finish	
	Products, In process and bulk products, for preparation	
	of containers and closures are available and is complied	
	with as per rules	
22	Master Formula Records:-	
	Whether the unit has maintained Master Formula	
	Records relating to all manufacturing procedures and	
	batch sizes as per rules	
23	Packaging Records:-	
	Whether authorized packaging instructions for each	
	products, pack size and type are maintained and	
	complied with as per rules.	
24	Batch Processing Records:-	
24.1	Whether the Batch Processing Records for each	
	products on the basis of currently approved master	
	formula is being maintained as per rules	
25	Standard Operating Procedure and Records:-	
	Whether SOPs and records are being maintained and	
	complied with as per rules. Check whether following	
	SOP's are available	
	(a) SOP for receipt of material	
	(b) SOP for internal labelling, quarantine, storage,	
	packaging material and other materials	
	(c) SOP for each instrument and equipment	
	(d) SOP for sampling	
	(e) SOP for batch numbering	
	(f) SOP for testing	
	(g) SOP for equipment assembly and validation	
	(h) SOP for Analytical apparatus and calibration	
	(i) SOP for maintenance, cleaning and sanitation	
	(j) SOP for training and hygiene for the personal	
	(k) SOP for retaining reference samples	
	(l) SOP for handling, re-processing and recoveries	
	(m) SOP for distribution of the product	
26	Validation and Process Validation:-	
	Whether validation studies of processing, testing and	

overnment of Telangana	
cleaning procedures are conducted as per rules	
Product Recalls:-	
Whether the prompt and effective recall system of	
with SOPs for Recall Operations	
1	
Whether the unit has maintained review system for	
complaints concerning the quality of products along	
with SOPs	
Site Master File:-	
Whathan Site Mester Eile of non-miles have been	
Whether Site Master File as per rules have been	
	Product Recalls:-         Whether the prompt and effective recall system of defective products is being maintained by the unit along with SOPs for Recall Operations         Complaints and Adverse Reactions:-         Whether the unit has maintained review system for complaints concerning the quality of products along with SOPs         Site Master File:-

#### SPECIFIC REQUIREMENTS FOR MANUFACTURE OF STERILE PRODUCTS, PARENTERAL PREPARATIONS (SMALL VOLUME INJECTABLES AND LARGE VOLUME PARENTERALS) AND STERILE OPHTHALMIC PREPARATIONS.

1	<b>GENERAL</b> PART	Y-1A
No.	Audit Item	Observations / Remarks
1	Whether dampness, dirt and darkness is visible	
	in the facility	
2	Building and Civil Works:	
No.	Audit Item	Observations / Remarks
2.1	Whether the building is devoid of cracks	Observations / Remarks
2.1	especially in the Aseptic solutions preparation	
	rooms, Filling rooms, Sealing rooms	
2.2	Are the location of services like water, steam,	
2.2	gases etc. are such that the servicing or repairs	
	can be carried out without any threat to the	
	integrity of the facility	
2.2	Whether water lines pose any threat of leakage	
	to the aseptic area	
2.3	Whether the manufacturing areas clearly	
	separated into Support Areas (washing and	
	component preparation areas, storage areas etc.)	
	Preparation areas (bulk manufacturing areas,	
	non aseptic blending areas etc) Change areas	
	and Aseptic areas	
2.3	Whether de-cartoning areas to remove outer	
	cardboard wrappings of primary packaging	
2.2	materials segregated from the washing areas	
2.3	Whether particle shedding materials like	
	wooden pallets, fiber board drums, cardboards	
2.4a	etc taken into the preparation areas etc Whether in the aseptic areas Walls, floors and	
2 <b>.</b> 4a	ceiling are	
	Impervious	
	Non-Shedding	
	Non-Cracking	
	Coved at wall and ceiling junction	
2.4b	Whether the walls are flat, smooth and devoid of	
	recesses	
2.4b	Whether the surface joints like electric sockets,	
	gas points flushed with walls	
2.4c	Whether the ceiling is solid and the joints are	
	properly sealed	
2.4c	Are the air grills and lights flushed with the	
	walls	
2.4d	Are the grade A & B areas devoid of sinks and	

	drains	
2.4e	Are the doors made up of non-shedding	
	materials	
2.4e	Whether doors open towards higher pressure	
	areas and close automatically due to air pressure	
2.4f	As the windows made non-shedding material	
	and flushed with the walls	
2.4f	In case fire escapes are provided, whether they	
	are suitably fastened to the walls without gaps	
2.4g	Whether the quality of the furniture used is	
2.4g	smooth & washable and made of stainless steel,	
	or of any other suitable material other than wood	
2.5	Whether the Manufacturing and support areas	
	have the same quality of civil structure as	
	desired for aseptic areas except the	
	environmental standards which may vary in the	
	critical areas	
2.6	Is the change rooms entrance provided with air	
	locks before entry to the sterile product manufacturing areas and then to the aseptic	
	areas	
2.6	Whether the aseptic areas have separate exit and	
2.0	entrances	
2.6	Are the change rooms to the aseptic aras clearly	
	demarcated like 'black' 'gray' and 'white' with	
	different levels of activity and air cleanliness?	
2.6	Are the sinks and drains in the first change	
2.6	rooms (un-classified) kept clean all the time	
2.6	Do the specially designed drains are periodically	
	monitored to check for pathogenic micro- organisms	
2.6	Do the change room doors open simultaneously	
2.6	Whether an appropriate inter- locking system	
	with visual and/or audible warning system	
	installed to prevent the opening of more than	
	one door at a time	
2.7	Do the aseptic and non-aseptic areas provided	
	with intercom telephones or speak phones for	
	communication purposes	
2.8	Whether the aseptic areas and outside areas	
	provided with suitable air-locks or pas boxes for	
20	material transfer	
2.8	Do the doors of these air-locks and pass-boxes have suitable inter-locking arrangements	
	have suitable inter-locking attailgements	
2.9	Are the rest room, canteen and toilets outside the	
2.7	sterile manufacturing area	
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2.10	Are the animal houses outside and away from the sterile product manufacturing area with separate AHU.	
3	HVAC System:	
No.	Audit Item	Observations / Remarks
3.1	Whether the Air Handling Units for sterile product manufacturing area separate from those for other areas	
3.1	Give the Background Grade of air for following critical areas: Aseptic filling area Sterilized components unloading area Filling room of terminally sterilized products Batch manufacturing area Component washing and preparation area Final Change room (Aseptic Area)	
3.1	Whether Aseptic filling area, sterilized component unloading area and changes rooms conforming to Class B, C and D have separate Air Handling Units	
3.1	Are the filter configuration in the air handling system suitably designed to achieve the Grade A, B, C and D of air as per designed classified areas	
3.1	Whether the types of Operations to be carried out in the various Grades for Aseptic Preparations are as under:	
a)	Grade Type of Operation A Aseptic preparation & Filling	
b)	B Background room conditions for Grade A activities	
c)	C Solution preparation to be filtered	
d)	D Handling of components after Washing	
3.2	Whether for aseptically filled products the filling room meet <b>Grade B</b> conditions at rest, unmanned within a period of about <b>30 minutes</b> of the personnel leaving the room after completion of operations	
3.3	Are the filling operations undertaken in Grade A conditions and demonstrated under working of simulated conditions	
3.3	Whether these conditions achieved by Laminar Air Flow stations or by Isolator technology	
3.4	Whether the filling room meets <b>Grade C</b> conditions at rest in case of terminally sterilized products and these conditions obtainable within	

	a period of about <b>30 minutes</b> of the personnel	
	leaving the room after completion of the	
	operations	
3.5	Whether the manufacturing and component	
	preparation areas meet Grade C conditions	
3.6	Whether the washed components and vessels	
	protected with Grade C background or if	
	necessary under LAF station	
3.7	Whether the number of air changes in Grade B	
	and Grade C areas more than 20 per hour.	
3.7	Whether the Grade A Laminar Air Flow stations	
	meet the criteria of air flow of 0.3 meter per	
	second in case of vertical and that of 0.45 meter	
2.0	per second in case of horizontal flows $+/-20\%$ .	
3.8	Whether the differential pressure between areas of different environmental standards meets the	
	requirements (at least 15 Pascal/ 0.06 inches/ 1.5	
	mm water gauge)	
3.8	Whether suitable manometers / gauges installed	
5.0	for measured and verification. Specify type of	
	manometer	
3.9	Whether the final change rooms have the same	
	class or air as specified for the aseptic area	
3.9	Whether the pressure differential in the change	
	rooms is in the descending order, from ' white' to	
	'black'. Specify pressures of three change rooms	
3.10(t)	Whether temperature and humidity (NMT 27	
	Degrees and 55 % RH respectively) in the	
	aseptic areas are controlled	
4	Environmental Monitoring:	
No.	Audit Item	
4.1	Whether the records exist to show that all the	
	environmental parameters were verified at the	
	time of installation and checked periodically thereafter?	
4.1	Are the recommended periodic monitoring	
4.1	frequencies followed	
4.1	Particulate counts - 6 Monthly	
do	HEPA filters integrity testing - Yearly	
do	Air Change rates - 6 Monthly	
do	Air pressure differentials - Daily	
do	Temperature and Humidity - Daily	
do	Microbiological monitoring by settle plates and /	
-	or swabs in:	
	Aseptic areas Daily,	
	The price areas Duriy,	

4.4.2	Does a written Environmental Monitoring	
1.1.2	Program exist? How long the settle plates are	
	exposed in Grade A and other areas.	
4.2	Are the microbiological results recorded	
4.2	Are these results assessed with recommended	
	limits	
4.3	Do they take action in case particulate and	
	microbiological monitoring counts exceed the	
	limits	
4.3	Do the SOPs contain suggestive corrective	
1.0	action	
4.3	In case of major engineering modifications	
	being carried out to the HVAC system of any	
	area, Whether all parameters reassessed and approved before starting production	
5	Garments:	
No.	Audit Item	Observations / Remarks
5.1	Whether Outdoor clothing is allowed in the	Observations / Remarks
5.1	sterile areas	
5.2	Do they use cotton garments which are not	
	allowed?	
5.3	Are the garments made of non-shedding and	
	tight weaving material?	
5.3	Whether the garments are of suitable design in	
	single piece with fastening at cuffs, neck and at	
	legs to ensure close fit Trouser legs to be tucked	
5.2	inside the cover Boots	
5.3	Whether the garment includes a hood or a separate hood which can be tucked inside the	
	overall	
5.3	Whether Pockets, pleats and belts are avoided	
5.3	Whether Zips (if any used in garments) are of	
0.0	plastic material	
5.4	Whether the personnel wear only clean,	
	sterilized and protective garments at each work	
	session where aseptic filtration and filling	
	operations are undertaken and at each work shift	
	for products intended to be sterilized, post-	
	filling	
5.4	Are masks and gloves are changed at every	
	work session	
5.5	Are the gloves used made of latex or other	
<b></b> _	suitable plastic material	
5.5	Are powder free gloves used in clean rooms	
5.5	Are the gloves long enough to cover the wrists	
	completely and allow the over-all cuff to be	
<b>.</b>	tucked in	
5.6	Are the foot-wear used made of plastic or rubber	
5.6	material	
J.0	Are the foot-wear daily cleaned with a	

	bactericide	
5.7	Does the safety goggles / numbered glasses	
	worn inside the aseptic areas have side	
	extensions	
5.7	Are safely goggles sanitized by a suitable	
	method	
5.8	Whether the garment changing procedure	
	documented	
5.8	Whether the operators trained in garment	
	changing procedure	
5.8	Whether a full size mirror been provided in the	
	final change room to ascertain that the operator	
	has appropriately attired in the garments	
5.8	Are periodic inspections of the garments carried	
	out by responsible staff	
5.21	Whether the garments washed in clean area	
5.22	Specify garment sterilization procedure and its	
	entry to the aseptic area	
6	Sanitation:	
No.	Audit Item	Observations / Remarks
6.1	Whether written procedures available for	
	sanitation of sterile processing facilities	
6.1	Whether the employees carrying out the	
	sanitation of aseptic areas specially trained for	
	the purpose	
6.2	Whether more than one sanitizing agent is used	
6.2	Whether the concentration of the agent used has	
	been recommended by the manufacturer	
6.2	Are the sanitizing agents used in rotation and	
	records maintained	
6.3	Whether distilled water is used for the dilution	
	of the disinfectant, if so is it directly collected	
	from the distilled water plant or from re-	
	circulation loop maintained above 70 Degees C	
	sterilized by autoclaving and filtered through	
6.4	membrane filtration	
6.4	Whether alcohol or isopropyl alcohol is used as	
6.3	disinfectant for hand sprays?	
0.5	Whether disinfectant solutions filtered through membrane into suitable sterile containers before	
	use?	
6.5	Whether the diluted disinfectants bear 'use	
0.5	before ' labels based on microbiological	
	establishment of their germicidal properties	
6.5	Whether records maintained thereof	
6.6	Whether funigation carried out in aseptic areas.	
0.0	If yes, specify fumigating agent and its conc.	
	In yes, specing runnigating agent and its conc.	

6.7         Whether cleaning of sterile processing facility done using air suction devices non-linting sponges or clothes           6.8         Whether air particulate quality monitored on a regular basis         7           7         Equipment:         Observations / Remarks           7.1         Are the following equipment available with the sterile product manufacturing facility         Observations / Remarks           7.1         Are the following equipment available with the sterile product manufacturing facility         Observations / Remarks           8         Steam Sterilizers         C           D         Membrane Filter Assemblies         E           E         Manufacturing Vessels         E           F         Blenders         E           1         Socialing and labelling Machines         E           2         Vacuum testing chambers         E           K         Inspection Machines         E           L         Lyophilisers	6.6	Whether an SOP exist for the purpose of fumigation	
done using air suction devices non-linting sponges or clothes           6.8         Whether air particulate quality monitored on a regular basis           7         Equipment:           No.         Audit Item           Observations / Remarks           7.1         Are the following equipment available with the sterile product manufacturing facility           A         Component washing machines           B         Steram Sterilizers           C         Dry heat sterilizers           D         Membrane Filter Assemblies           E         Manufacturing Vessels           F         Blenders           G         Liquid filling Machines           H         Powder filling Machines           J         Vacuum testing enhabers           K         Inspection Machines           L         Lyophilisers           M         Pressure Vessels           N         Fully integrated washing - sterilizing filling lines (depending upon type and volume of activity)           7.2         Whether the unit sterilizers double ended with suitable inter-locking between the doors           7.2         Whether thermal Mapping of heat sterilizers is carried out on regular basis, Check records           7.2         Whether thermal Mapping of heat sterilizers is carried out on regular basis, Check records	67		
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7.3 Are SOPs with acceptance criteria for media			
	7.3		
fills been established, validated and documented		fills been established, validated and documented	

7.4		
	Whether the material of construction of the parts	
	of equipment which are in direct contact with	
	the product and the manufacturing vessels of	
	stainless steel 316 and of glass containers	
	Borosilicate glass	
7.4	Whether the tubing used capable of washing and	
/.1	autoclaving	
	autociaving	
7.5	Whather the installation qualification been done	
1.5	Whether the installation qualification been done	
	of all the equipments by the engineers (with the	
	support of production and quality assurance	
	personnel)	
7.5	Whether the critical processes such as aseptic	
	filling and sterilizers suitably validated before	
	these were put to use	
7.6	Whether SOPs available for each equipment for	
	its calibration, operation and cleaning	
7.6	Whether the measuring devices attached to	
	equipment calibrated at suitable intervals	
7.6	Whether a written calibration program is	
7.0	available	
7.6	Whether calibration status documented and	
7.0		
	displayed on the of the equipment and the	
	gauges	
8	Water and Water Systems:	
1		
N	A 1' T	
No.	Audit Item	Observations / Remarks
No. 8.1	Whether potable water used for the preparation	Observations / Remarks
-	Whether potable water used for the preparation of purified water meets the requirement of not	Observations / Remarks
8.1	Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml	Observations / Remarks
-	<ul><li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li><li>Whether potable water tested (100 ml sample)</li></ul>	Observations / Remarks
8.1	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms;</li> </ul>	Observations / Remarks
8.1	<ul><li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li><li>Whether potable water tested (100 ml sample)</li></ul>	Observations / Remarks
8.1	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> </ul>	Observations / Remarks
8.1	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus</li> </ul>	Observations / Remarks
8.1	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> </ul>	Observations / Remarks
8.1	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> <li>Whether the Purified Water prepared by demineralization / distillation and meet the</li> </ul>	Observations / Remarks
8.1	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> <li>Whether the Purified Water prepared by demineralization / distillation and meet the microbiological specification of not more than</li> </ul>	Observations / Remarks
8.1       8.1       8.2	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> <li>Whether the Purified Water prepared by demineralization / distillation and meet the microbiological specification of not more than 100 cfu/ml</li> </ul>	Observations / Remarks
8.1	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> <li>Whether the Purified Water prepared by demineralization / distillation and meet the microbiological specification of not more than 100 cfu/ml</li> <li>Whether Purified Water tested for freedom from</li> </ul>	Observations / Remarks
8.1         8.1         8.1         8.2         8.2	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> <li>Whether the Purified Water prepared by demineralization / distillation and meet the microbiological specification of not more than 100 cfu/ml</li> <li>Whether Purified Water tested for freedom from pathogenic microorganisms (Sample size 100 ml)</li> </ul>	Observations / Remarks
8.1       8.1       8.2	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> <li>Whether the Purified Water prepared by demineralization / distillation and meet the microbiological specification of not more than 100 cfu/ml</li> <li>Whether Purified Water tested for freedom from pathogenic microorganisms (Sample size 100 ml)</li> <li>Whether Purified Water meet IP Specifications</li> </ul>	Observations / Remarks
8.1         8.1         8.2         8.2         8.2	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> <li>Whether the Purified Water prepared by demineralization / distillation and meet the microbiological specification of not more than 100 cfu/ml</li> <li>Whether Purified Water tested for freedom from pathogenic microorganisms (Sample size 100 ml)</li> <li>Whether Purified Water meet IP Specifications for chemical testing</li> </ul>	Observations / Remarks
8.1         8.1         8.1         8.2         8.2	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> <li>Whether the Purified Water prepared by demineralization / distillation and meet the microbiological specification of not more than 100 cfu/ml</li> <li>Whether Purified Water tested for freedom from pathogenic microorganisms (Sample size 100 ml)</li> <li>Whether Purified Water meet IP Specifications for chemical testing</li> <li>Whether purified water is stored in stainless</li> </ul>	Observations / Remarks
8.1         8.1         8.1         8.2         8.2         8.2         8.2         8.2	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> <li>Whether the Purified Water prepared by demineralization / distillation and meet the microbiological specification of not more than 100 cfu/ml</li> <li>Whether Purified Water tested for freedom from pathogenic microorganisms (Sample size 100 ml)</li> <li>Whether Purified Water meet IP Specifications for chemical testing</li> <li>Whether purified water is stored in stainless steel tanks</li> </ul>	Observations / Remarks
8.1         8.1         8.2         8.2         8.2	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> <li>Whether the Purified Water prepared by demineralization / distillation and meet the microbiological specification of not more than 100 cfu/ml</li> <li>Whether Purified Water tested for freedom from pathogenic microorganisms (Sample size 100 ml)</li> <li>Whether Purified Water is stored in stainless steel tanks</li> <li>Are the distribution lines made of stainless steel</li> </ul>	Observations / Remarks
8.1         8.1         8.1         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> <li>Whether the Purified Water prepared by demineralization / distillation and meet the microbiological specification of not more than 100 cfu/ml</li> <li>Whether Purified Water tested for freedom from pathogenic microorganisms (Sample size 100 ml)</li> <li>Whether Purified Water is stored in stainless steel tanks</li> <li>Are the distribution lines made of stainless steel 316 grades?</li> </ul>	Observations / Remarks
8.1         8.1         8.1         8.2         8.2         8.2         8.2         8.2	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> <li>Whether the Purified Water prepared by demineralization / distillation and meet the microbiological specification of not more than 100 cfu/ml</li> <li>Whether Purified Water tested for freedom from pathogenic microorganisms (Sample size 100 ml)</li> <li>Whether Purified Water is stored in stainless steel tanks</li> <li>Are the distribution lines made of stainless steel 316 grades?</li> <li>What is the water source for preparation Water</li> </ul>	Observations / Remarks
8.1         8.1         8.1         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.3	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> <li>Whether the Purified Water prepared by demineralization / distillation and meet the microbiological specification of not more than 100 cfu/ml</li> <li>Whether Purified Water tested for freedom from pathogenic microorganisms (Sample size 100 ml)</li> <li>Whether Purified Water meet IP Specifications for chemical testing</li> <li>Whether purified water is stored in stainless steel tanks</li> <li>Are the distribution lines made of stainless steel 316 grades?</li> <li>What is the water source for preparation Water for Injection (WFI):</li> </ul>	Observations / Remarks
8.1         8.1         8.1         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> <li>Whether the Purified Water prepared by demineralization / distillation and meet the microbiological specification of not more than 100 cfu/ml</li> <li>Whether Purified Water tested for freedom from pathogenic microorganisms (Sample size 100 ml)</li> <li>Whether Purified Water is stored in stainless steel tanks</li> <li>Are the distribution lines made of stainless steel 316 grades?</li> <li>What is the water source for preparation Water</li> </ul>	Observations / Remarks
8.1         8.1         8.1         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.2         8.3	<ul> <li>Whether potable water used for the preparation of purified water meets the requirement of not more than 500 cfu/ml</li> <li>Whether potable water tested (100 ml sample) for freedom from pathogenic microorganisms; Escherichia coli, Salmonella, Staphylococcus aureus and Pseudomonas</li> <li>Whether the Purified Water prepared by demineralization / distillation and meet the microbiological specification of not more than 100 cfu/ml</li> <li>Whether Purified Water tested for freedom from pathogenic microorganisms (Sample size 100 ml)</li> <li>Whether Purified Water meet IP Specifications for chemical testing</li> <li>Whether purified water is stored in stainless steel tanks</li> <li>Are the distribution lines made of stainless steel 316 grades?</li> <li>What is the water source for preparation Water for Injection (WFI):</li> </ul>	Observations / Remarks

8.3	Whathar WEI most migraphiclogical	1
0.5	Whether WFI meet microbiological specification of not more than 10 cfu/100ml	
0.2		
8.3	Whether WFI meet IP Specifications for Water	
0.2	for Injection Whether WFI meet the endotoxin level of not	
8.3		
	more than 0.25 EU/ml	
0.0	Whether WFI used for	
8.3	Bulk preparations of liquid parenterals	
8.3	Final rinse of product containers	
8.3	Final rinse of machine parts	
8.3	Preparation of disinfectant solutions for use in	
	aseptic areas	
8.4	Whether WFI used for liquid injectables	
	collected freshly from the distillation plant or	
	from a storage / circulation loop kept at above	
	70 Degrees C.	
8.5	Whether the steam condensate meets the	
	microbiological specification of not more than	
	10 cfu/100 ml and IP specifications of WFI	
8.3	Whether steam used in production meet the	
	endotoxin level of not more than 0.25EU/ml	
8.9	What is the schedule for the monitoring of steam	
	quality exist	
9	Manufacturing Process:	
		1
9.2	whether the bulk raw materials and bulk	
	solutions monitored for bio-burden periodically	
	(solutions not to contain more than 100 cfu/ml	
9.2	Whether the principle of minimum possible time	
	between the preparation of the solution and its	
	sterilization or filtration through microorganism	
	retaining filters followed and also specified in	
	Master formula.	
9.4	Whether the filter the gases coming into contact	
	with the sterile product through two 0.22 micron	
	hydrophobic filters connected in seriers.	
9.4	Whether gas cylinders are kept out side of the	
	aseptic areas	
9.5	Whether the washed containers sterilized	
	immediately before use.	
9.5	Whether the sterilized containers not used	
	within an established time, rinsed with distilled	
	or filtered purified water and re-sterilized.	
9.6	Is each lot of the finished product filled in one	
	continuation operation	
10.5iii	Whether integrity of the sterilizing filter verified	
	and confirmed immediately after use. If so, by	
	which method.	
	Bubble point, Diffusive flow or	

	pressure Hold Test	
	Sterilization(Autoclaving)	
10.6.2	Whether the sterilizing processes have been	
	validated (Dry heat, Moist heat, filtration, ETO,	
	ionizations whichever applicable.	
10.6.2	Whether the validity of the process verified at	
	regular intervals (at least annually)	
10.6.2	Whether significant changes made to the	
	equipment and / or the prodcut. Whether the	
10.60	records of such changes maintained.	
10.6.3	Whether sterilizer double ended.	
	Whether the terminal sterilizer's capacity is	<u> </u>
	sufficient to sterilize one batch completely at	
	one time. If not specify controls and measures	
	taken in lot sterilization	
10.6.4	Whether the monitoring of products bio-burden	
	carried out before terminal sterilization.	
10.6.4	Whether bio-burden controlled to the specified	
	limits in the Master Formula.	
10.6.5	Whether biological indicators used in	
	monitoring of sterilization.	
10.6.5	Whether the biological indicators stored and	
	used as per manufacturer's instructions.	
	Whether quality of BI's checked by positive	
	controls.	
10.6.6	Whether a clear means of differenting 'sterilized'	
	from 'unsterilized' products in place. Specify.	
10.6.6	Whether the label on the basket/tray or other	
	carrier of product/component clearly states:	
	Name of the material	
	Its batch number	
	Its Sterilization status	
	Indicator (in case it has passed through	
10 6 7	sterilization process)	
10.6.7	Whether sterilization records inlcuding	
	thermographs and sterilization monitoring slips	
	attached with the Batch Production Record	
10.7.1	Sterilization (By Dry Heat) Whether the sterilization cycle recording device	
10.7.1	of stuitable size and precision provided in DHS	
10.7.1	Whether the position of temperature probes used	
10.7.1	for controlling and / or recording determined	
	during validation and (where applicable) been	
	checked against a second independent	
	temperature probe located in the same position	
10.7.1	Whether the chart forms a part of the batch	
	record.	
L		

10.7.2	Whether sterilization cycle validated only by	
	biological indicator and chemical indicators	
10.7.3	Whether the time allowed reaching the required	
	temperature before commencing the	
	measurement of sterilizing time, separately	
	determined for each type of load	
10.7.3	Are adequate precautions taken to protect the	
	load during cooling after it has gone through the	
	high temperature phase of a heat sterilization	
	cycle	
10.7.4	In case the cooling is affected with any fluid or	
	gas in contact with the product, is it sterilized	
10.7.4	Whether the equipment air inlet and outlets been	
	provided with bacteria retaining filters	
10.7.5	In the process of sterilization by dry heat, does	
	the equipment has:	
	Air circulation facility within the chambers	
	Positive pessure to prevent entry of non-sterile	
	air	
10.7.5	Whether the process of dry heat sterilization is	
10 5 5	also intended to remove the pyrogens	
10.7.5	If so, has the validation been done with	
	challenge tests using endotoxins	
10.0.1	Sterilization (By Moist Heat)	
10.8.1	Whether recording of both temperature and	
10.8.1	pressure carried out to monitor the process Whether the control instrumentation	
10.8.1	independent of the monitoring instrumentation	
	and recording charts	
10.8.1	Whether the equipment has automated control	
10.0.1	and monitoring system, if so, have these been	
	validated to ensure that critical process	
	requirements are met.	
10.8.1	Whether the system record the system and cycle	
101011	faults	
10.8.1	Whether records observed / retained by the	
	operator	
10.8.1	Whether the reading of the independent	
	temperature indicator routinely checked against	
	the chart recorder during the sterilizing period	
10.8.1	Whether the sterilizer fitted with a drain at the	
	bottom of the chamber	
10.8.1	If so, does the record of temperature at this	
	position is recorded throughout the sterilizing	
	period	
10.8.1	Are frequent leak tests conducted on the	
	chamber during the vacuum phase of the cycle	
10.8.2	Whether all items to be sterilized (other than	
10.17	sealed containers) are wrapped for sterilization	
10.45	Whether the wrapping material allows removal	

	of air and penetration of steam ensuring contact	
	with the sterilizing agent at the required	
	temperature for required time	
10.8.2	Whether the wrapping prevent contamination	
	after sterilization	
10.8.4	Whether the steam used for sterilization is of	
	suitable quality	
10.8.4	Whether steam contain any additives, if, so,	
	what is the level	
10.8.4	Whether the additives can cause contamination	
	of the product or equipment	
10.9.1	Whether the minimum time for all unit	
	operations and processes are specified in the	
	manufacture of a batch.	
10.9.1	Whether the shortest validated time being	
	adhered from the start of a batch to its ultimate	
	release for distribution	
10.9.2	Whether the containers closing methods been	
	validated	
10.9.2	Whether the containers closed by fusion e.g.	
	glass or plastic ampoules, subjected to 100 %	
	testing	
10.9.2	Whether the samples of other containers	
	checked for integrity as per appropriate	
	procedures	
10.9.3	Whether the containers sealed under vacuum	
	checked for required vacuum conditions	
10.9.4	Whether the filled containers of parenterals	
	inspected individually for extraneous	
10.0.4	contamination / other defects	
10.9.4	Whether the inspection process done visually, if	
	so, are the illumination and background	
10.0.4	conditions controlled	
10.9.4	Whether the workers engaged in inspection	
	activity pass the regular eye-sight test (with	
10.9.4	spectacles if worn)	
10.9.4	Whether the visual inspectors allowed frequent rest from inspection	
10.9.4	If other method of inspection of containers is	
10.9.4	used,	
	What is the method	
	Has it been validated	
	Are the equipment used for the purpose checked	
	at suitable intervals	
	Are the results / recorded maintained	
11	Product Containers and Closures:	
No.	Audit Item	Observations / Remarks
110,		Coser rations / Remarks

11.1	Whether the containers and closures used	
11.1	comply to pharmacopoeia or other specific	
	requirements	
11.1	To assure suitability of the containers / closures	
11.1	and other component parts of drug packages,	
	whether they have:	
	Suitable sample sizes	
	Specifications	
	Test methods	
	Cleaning procedures	
	Sterilizing procedures	
11.1	What are the measures to ensure that containers	
	are not reactive, additive, adsorptive, leach-able	
	or toxic to an extent that significantly affects the	
	quality or purity of the drug	
11.1	Whether second hand containers and closures	
	used	
11.2	Whether the plastic granules used checked for	
	fulfillment of Pharmacopoeia requirements	
	including physico- chemical and biological tests	
11.3	Whether containers and the closures rinsed with	
	WFI before sterilization	
11.3	Whether a written procedure exist for washing	
	process. Do they follow the written schedule for	
	cleaning of the glass bottles	
11.4	Whether the design of closures and containers	
	suitable to make cleaning easy, and to make an	
	air tight seal when fitted to the bottles	
11.5	Whether the material quality of the stoppers and	
	closures ensures that it does not affect the	
	quality of the product and avoids the risk of	
	toxicity	
11.6	In case the bottles are not dried after washing	
11.0	are these rinsed with distilled water for pyrogen	
	free water as the case may be as per written	
	procedure	
11.7	Do they examine the individual containers of	
11.7	parenteral preparations / opthalmic preparations	
	afater filling for foreign matters	
11.7	Is this examination carried out against a	
11./	black/white background fitted with diffused	
	0	
11.10t	light Do the rubber stoppers used for Large Volume	
11.100		
	Parenterals comply requirements of the current	
12	edition of Indian Pharmacopoeia Documentation:	
No.	Audit Item	Observations / Remarks
12.1	Do the manufacturing records pertaining to	
	manufacture of sterile products indicate the	
	following details:	

12.1.1	Serial number of Batch Record	
12.1.2	Name of the product	
12.1.2	Reference to Master Formula Record	
12.1.3	Batch/Lot number	
12.1.5	Batch/Lot size	
12.1.6	Date of commencement and completion of	
12.1.0	manufacture	
12.1.7	Date of manufacture and assigned date of expiry	
12.1.8	Date of each step in manufacturing	
12.1.9	Names of all ingredients with grade given by the	
	quality control department	
12.1.10	Quality of all ingredients	
12.1.11	Control reference numbers for all ingredients	
12.1.12	Time and duration of blending, mixing etc.	
	where even applicable	
12.1.13	PH of solutions whenever applicable	
12.1.14	Filter integrity testing records	
12.1.15	Temperature and humidity records whenever	
	applicable	
12.1.16		
12.1.17	Results of pyrogen and / or bacterial endotoxin	
	and toxicity	
12.1.18	Records of weight or volume of drug filled in	
	containers	
12.1.19	Bulk sterility in case of aseptically filled	
10.1.00	products	
	Leak test records	
12.1.21	Inspection records	
12.1.22	Sterlization records including leakage test	
	records, load details, date, duration, temperature,	
12.1.23	pressure etc.	
12.1.23	Container washing records Total number of containers filled	
12.1.24	Total number of containers rejected at each	
12.1.23	stage	
12.1.26	Theoretical yield, permissible yield, actual yield	
12.1.20	and variation there of	
12.1.27	Clarification for variation in yield beyond	
12.1.27	permissible yield	
12.1.28	Reference number of relevant analytical reports	
12.1.29		4
	Details of re-processing. if any	
	Details of re-processing, if any Names of all operators carrying out different	
12.1.30	Details of re-processing, if any Names of all operators carrying out different activities	
	Names of all operators carrying out different activities	
12.1.30	Names of all operators carrying out different activities Environmental Monitoring records	
12.1.30 12.1.31	Names of all operators carrying out different activities	
12.1.30 12.1.31 12.1.32	Names of all operators carrying out different activities Environmental Monitoring records Specimens of different packaging material	
12.1.30 12.1.31 12.1.32	Names of all operators carrying out different activitiesEnvironmental Monitoring recordsSpecimens of different packaging material Records of destruction of rejected containers	

	responsible for manufacture and testing	
12.1N1	Whether products released only after complete	
	filling and testing	
12.1N2	Whether result of the tests relating to sterility,	
	pyrogens and bacterial endotoxins are	
	maintained in the analytical records	
12.1N3	Whether validation details and simulation trial	
	records maintained are separately	
12.1N4	Whether records of environmental monitoring	
	like temperature, humidity, microbiological data	
	etc., are maintained	
12.1N4	Whether records of periodic servicing of HEPA	
	filters, sterilizers and other periodic maintenance	
	of facilities and equipment carried out are	
	maintained.	

<b>FART - I B</b> Specific Requirements for manufacture of Oral Solid Dosage Forms (Tablets and Capsules)			
1	General:-	suge i orms (Tubrets und Cupsules)	
1.1			
1.2	Whether the unit has taken precaution to avoid contamination of fiber shedding materials like wood		
1.3	Whether the unit is monitoring environmental conditions of pressure differentials between rooms		
1.4	Whether temperature and humidity is controlled while processing of Aspirin, Ferrous Sulphate, Effervescent tablets etc.		
1.5	Whether metal detector provided		
2	Sifting, Mixing and Granulation:-		
2.1	Whether mixing, sifting and blending equipment's are fitted with dust extractors unless operated as a closed system		
2.2	Whether critical operating parameter like time and temperature for each mixing and drying operation are recorded in BPR		
2.3	Whether filter bags fitted to fluid bed drier are used for different products without being washed in between used		
2.4	Whether air entering in to the drier is filtered		
3			
3.1	Whether Tablet compressing machine are provided with effective dust control facilities and installed in separate cubicles		
3.2	Whether tablets are being inspected and checked for		

# PART - I B

	suitable pharmacopeial parameters like appearance			
	weigh variation, disintegration, hardness, friability and			
	thickness and records maintained thereof.			
3.3	Whether tablets are being de-dusted and monitored for			
	the presents of foreign materials and collected in clean			
	labeled containers.			
3.4	Whether compressed tablets are stored properly			
4	Coating (Tablets) :-			
4.1	Whether air supplied to coating pan is filtered and of			
	suitable quality. The area should be provided with			
	suitable exhaust system and environmental control			
	(temperature and humidity)			
4.2	Whether coating solutions be made afresh and used in a			
	manner to minimize the risk of microbial growth			
5	Packaging (Strip & Blister)			
5.1	Whether rogue tablets and capsules are removed before			
	packaging			
	r			
5.2	Whether the strips/Blister coming out of the machines is			
	inspected for directs such as mis-print, outs on the foil,			
	missing tablets and improper sealing			
5.3	Whether integrity of individual packaging strips is			
0.0	vaccum tested periodically to ensure leak proofness			
6	Equipments and Area in the Tablet Section			
	TABLET SECTION (GENERAL)			
Sl.No.	TABLET SECTION (GENERAL) Name	Make/Model	no. of machine	Total Area
Sl.No.		Make/Model	no. of machine	Total Area
Sl.No. 1 2	Name	Make/Model	no. of machine	Total Area
Sl.No. 1 2 3	Name Mass Mixer Drum Mixer	Make/Model	no. of machine	Total Area
1 2	Name       Mass Mixer       Drum Mixer       Rotary Tablet Machine	Make/Model	no. of machine	Total Area
1 2 3	Name       Mass Mixer       Drum Mixer       Rotary Tablet Machine       Rotary Tablet Machine	Make/Model	no. of machine	Total Area
$ \begin{array}{r}1\\2\\3\\4\\5\end{array}$	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch Machine	Make/Model	no. of machine	Total Area
$ \begin{array}{r} 1\\ 2\\ 3\\ 4 \end{array} $	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray Drier	Make/Model	no. of machine	Total Area
$ \begin{array}{r} 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ \end{array} $	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heat	Make/Model	no. of machine	Total Area
$ \begin{array}{r}1\\2\\3\\4\\5\end{array}$	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heatMulti-mill	Make/Model	no. of machine	Total Area
$ \begin{array}{r} 1\\ 2\\ 3\\ -4\\ 5\\ -6\\ 7\\ -8\\ -9\\ 9 \end{array} $	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heatMulti-millCoating Pan	Make/Model	no. of machine	Total Area
$ \begin{array}{r} 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ \end{array} $	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heatMulti-millCoating PanPolishing Pan	Make/Model	no. of machine	Total Area
$ \begin{array}{r} 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 1 \end{array} $	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heatMulti-millCoating PanPolishing PanSifter	Make/Model	no. of machine	Total Area
$ \begin{array}{r} 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ \end{array} $	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heatMulti-millCoating PanPolishing PanSifterCounter Pan	Make/Model	no. of machine	Total Area
$ \begin{array}{r} 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ \end{array} $	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heatMulti-millCoating PanPolishing PanSifterCounter PanTablets Disintegration Machine	Make/Model	no. of machine	Total Area
$ \begin{array}{r} 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ \end{array} $	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heatMulti-millCoating PanPolishing PanSifterCounter PanTablets Disintegration MachineDehumidifier	Make/Model	no. of machine	Total Area
$ \begin{array}{r} 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ \end{array} $	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heatMulti-millCoating PanPolishing PanSifterCounter PanTablets Disintegration MachineDehumidifierPhysical Balance	Make/Model	no. of machine	Total Area
$ \begin{array}{r} 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ \end{array} $	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heatMulti-millCoating PanPolishing PanSifterCounter PanTablets Disintegration MachineDehumidifierPhysical BalanceSingle Pan Balance	Make/Model	no. of machine	Total Area
$ \begin{array}{r} 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ \end{array} $	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heatMulti-millCoating PanPolishing PanSifterCounter PanTablets Disintegration MachineDehumidifierPhysical BalanceSingle Pan BalanceHardness Tester	Make/Model	no. of machine	Total Area
$ \begin{array}{r} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ \end{array} $	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heatMulti-millCoating PanPolishing PanSifterCounter PanTablets Disintegration MachineDehumidifierPhysical BalanceSingle Pan BalanceHardness TesterDeduster Machine	Make/Model	no. of machine	Total Area
$ \begin{array}{r} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 19 \\ \end{array} $	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heatMulti-millCoating PanPolishing PanSifterCounter PanTablets Disintegration MachineDehumidifierPhysical BalanceSingle Pan BalanceHardness TesterDeduster MachineStainless Steel Vessels	Make/Model	no. of machine	Total Area
$ \begin{array}{r} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ \end{array} $	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heatMulti-millCoating PanPolishing PanSifterCounter PanTablets Disintegration MachineDehumidifierPhysical BalanceSingle Pan BalanceHardness TesterDeduster MachineStainless Steel VesselsStainless Steel Scoops	Make/Model	no. of machine	Total Area
$ \begin{array}{r}1\\1\\2\\3\\4\\4\\5\\6\\7\\7\\8\\9\\10\\11\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\end{array}$	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heatMulti-millCoating PanPolishing PanSifterCounter PanTablets Disintegration MachineDehumidifierPhysical BalanceSingle Pan BalanceHardness TesterDeduster MachineStainless Steel VesselsStainless Steel ScoopsTable Inspection Belt	Make/Model	no. of machine	Total Area
$ \begin{array}{r}1\\1\\2\\3\\4\\5\\6\\7\\7\\8\\9\\10\\11\\12\\12\\13\\14\\15\\16\\16\\17\\18\\19\\20\end{array}$	NameMass MixerDrum MixerRotary Tablet MachineRotary Tablet MachineSingle Stroke Multi punch MachineHot Air Oven Tray DrierFluid Bed Dryer with thermal heatMulti-millCoating PanPolishing PanSifterCounter PanTablets Disintegration MachineDehumidifierPhysical BalanceSingle Pan BalanceHardness TesterDeduster MachineStainless Steel VesselsStainless Steel Scoops	Make/Model	no. of machine	Total Area

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	TABLET SECTION (BETALACTUM) SEPARATE SECTION	C DESPENSING BC	OOTH IN THE I	ABLET	
Sl.No.	Name	Make/Model	Number of machine	Total Area	
1	Mass Mixer				
2	Drum Mixer				
3	Rotary Tablet Machine				
4					
5	Multi-mill				
6	Sifter				
7	Tablets Disintegration Machine				
8	Dehumidifier				
9	Physical Balance				
10					
11	Deduster Machine				
12	Air Handling Unit (Specification of filter and blower				
14	capacity)				
13	Blister Packing Machine				
15	TABLET SECTION (SEX HORMONES) SEPARA	FE SAMPLING AN	JD DISPENSING	C BOOTH	
Sl.No.	Name	Make/Model	Number of	Total Area	
51.140.	Ivanie	Wiake/ Wiodel	machine	Total Alca	
1	Roller Compactor		machine		
2	Drum Mixer			-	
3	Rotary Tablet Machine			-	
4	Multi-mill			-	
5	Sifter			-	
<u> </u>				-	
7	Tablets Disintegration Machine Dehumidifier			-	
				-	
8	Physical Balance			-	
9	Single Pan Balance			-	
10				4	
11				4	
12	Tablet Inspection Belt			_	
13	Air Handling Unit (Specification of filter and blower				
	capacity)			_	
14	Blister Packing Machine				
7					
	CAPSULE SECTION (BETALACTUM ANTIBIOT	,	1		
Sl.No.	Name	Make/Model	Number of machine	Total Area	
1	Rota Cube			_	
2	Capsule Filling Machine				
3	Sifter				
4	Dehumidifier			]	
5	Capsule Loading Machine			]	
6				1	
7	Physical Balance			1	
8	•			1	
9	Blister Packing Machine			1	

10	Air Handling Unit (Specification of filter and blower			
	capacity)			
	CAPSULE SECTION (NON BETALACTUM)			
Sl.No.	Name	Make/Model	Number of machine	Total Area
1	Sifter			
2	Rota Cube			
3	Capsule Filling Machine			
4	Dehumidifier			
5	Automatic Capsule Loading Machine			
6	Counter Pan			
7	Physical Balance			
8	Semi Automatic Capsule Filling Machine			
9	Capsule Polishing Machine			
10	Air Handling Unit (Specification of filter and blower capacity)			

### PART - I C

# Specific Requirements for manufacture of Oral Liquid

1	Building and Equipments :-
1.1	Whether the manufacturing area have entrance through double air lock facility and has been made fly proof
1.2	Whether the drainage is of adequate size and without open channels
1.3	Whether the production area is cleaned and sanitized at the end of every production process
1.4	Whether all the equipments and furniture's are of stainless steel and are capable of cleaned effectively
1.5	Whether suitable machine equipped with high pressure air, water and steam jets available for cleaning of containers
2	Purified Water:-
2.1	Whether the Microbial quality of purified water is monitored routinely. It should not exceed 100 cfu per ml for absence of pathogens.
2.2	Whether the unit has return procedure for operation and maintenance of purified water system. Specify the

	method.			
3	Manufacturing : -			
3.1	Whether the manufacturing personnel's wear non fiber shedding cloths also fiber shedding materials like gunny bags, or wooden pallets should not be carried in this area.			
3.2	Whether mixing and cleaning processes are specified and monitored to ensure that the product is uniformity homogeneous			
3.3	Whether the primary packaging area has an air supply filtered through 5 micron filters and the temperature does not exceed 30 degrees C.			
3.4	Whether the maximum period of storage before packing is specified in the mater formula			
4	Area and Equipment's			
	LIQUID ORAL SECTION			
Sl.No.	Name	Make/Model	Number of machine	Total Area
1	Double Head Liquid Filling Machine			
2	Stainless Steel Storage Tank			
3	Stainless Steel Storage Tank			
4	Stainless Steel Storage Tank			
5	Stainless Steel Storage Tank			
6	Stainless Steel Storage Tank			
7	Stainless Steel Storage Tank			
8	Stainless Steel Storage Tank			
9	Bottle Washing Machine			
10	Rotary type Bottle Washing Machine			
11	Oven Bottle Drying			
12	Horizontal Plate Filter Press			
13	Colloidal Mill			
14	Automatic P.P. Cap Sealing Machine			
15	P.P. Cap Sealing Machine			
16	Stirrer			
17	Filled bottle checking apparatus			
18	Deioniser			
19	Air Handling Unit (Specification of filter and blower			
	capacity)			

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#### PART - I D

### Specific Requirements for manufacture of topical products (Ointments, Creams, Lotion & Dusting Powders)

1.1	Whether the undersigned manufacturing area is through			
	a suitable air lock and insectocutors			
1.2	Whether the air to the manufacturing area is filtered			
	through 20 micron air filters and is air conditioned			
1.3	Whether the water used in the compounding is purified			
	water I.P			
1.4	Whether the powders whenever used are suitably sleved			
	before use			
1.5	Whether heating of base like petroleum jelly is done in			
	a separate mixing area in suitable SS vessels			
1.6	Whether a separate packing section is provided for			
	primary packaging of products			
1.7	Whether area is fitted with an exhaust system to remove			
	vapours, fumes etc.			
2	Area and Equipments			
	<b>OINTMENT &amp; CREAM SECTION (STEROIDS)</b>			
Sl.No.	Name	Make/Model	Number of	Total Area
			machine	
1	Planetary Mixer			
2	Automatic Tube Filling Machine			
3	Stainless Steel Vessels			
4	Stainless Steel Scoops			
5	Air Handling Unit (Specification of Filter and Blower			
	Capacity)			
	<b>OINTMENT &amp; CREAM SECTION (GENERAL)</b>			
Sl.No.	Name	Make/Model	Number of	Total Area
			machine	
	Colloid Mill			
	Automatic Tube Filling Machine			
	Semi Automatic Tube Filling Machine			
	Planetary Mixer			
	Stainless Steel Vessels			
	Stainless Steel Scoops			
	Conveyor Belt			
	Air Handling Unit (Specification of Filter and Blower			
	Capacity)			

PART 1-F
BULK DRUGS/ ACTIVE PHARMACEUTICAL INGREDIENTS
Specific requirements for the manufacture of Bulk Drugs

1	BUILDING AND CIVIL WORKS	
1.1	Whether confined areas are provided for the	
	manufacture of hazardous reactions, B-lactum	
	antibiotics, steroids and steroidal hormones,	
	cytotoxic substances.	
1.2	Whether air filtration system (terminally with	
	$5\mu$ ) system is provided from isolation of finally	
	stage of product to packaging stage.	
1.3	Whether suitable exhaust system is provided to	
	control floating dust particles.	
2	STERILE PRODUCTS	
	Whether sterile API are manufactured.	
3	Whether utilities are serviced at frequent	
	intervals.	
4	EQUIPMENT, DESIGN, SIZE AND	
	LOCATION	
4.1	Whether equipment in the mfg. sections are of	
	adequate size and suitably located.	
4.2	Whether cleaning procedures are prescribed for	
	switching over to another product.	
4.3	Whether cleaning procedures are prepared and	
	followed.	
4.4	Whether written procedures are established and	
	followed.	
4.5	Whether cleaning validation of equipment	
	done and followed.	
5	INPROCESS CONTROL	
5.1	Whether inprocess control for chemical	
	reactions are checked and recorded.	
5.2	Whether inprocess control for physical	
	operations are followed and recorded.	
6	PRODUCT CONTAINERS AND CLOSURES	
6.1	Whether containers and closures comply with	
	the pharmacopoeial or requirements not to	
	affect the quality or purity of the drug	
6.2	Whether approved or rejected containers are	
	identified and quarantined if rejected.	
6.3	Whether adequate protection system is	
0.0	provided to container closure system.	
6.4	Whether bulk drug containers and closures are	
0.4	cleaned.	
6.5	Whether container is conspicuously labeled	
0.5	whener container is conspicuously labeled with required information.	
	with required information.	

6.6	Whether different operations are suitably	
	partitioned.	

# Signatures of the Inspecting Officers:

Date: