

SHILPA PHARMA LIFESCIENCES LIMITED, UNIT-2

Plot Nos. 33, 33A, 40 to 47, Raichur Industrial Growth Centre, Wadloor Road, Chicksugur-584134, District:
Raichur, Karnataka, India.

BUSINESS CONTINUITY PLAN

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SHILPA PHARMA LIFESCIENCES LIMITED, UNIT -2

**Plot No's:33, 33A, 40 to 47
Raichur Industrial growth centre,
Chicksugur-584 134,
Dist: Raichur,
Karnataka (India).**

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1.0 Introduction

1.1 Purpose

Shilpa Medicare Limited, Unit-2, manufactures and delivers API s within India and also to various other countries across the globe. The purpose of this document is to provide a detailed guideline on the ways to continue our business and remain uninterrupted in spite of any contingencies occurring at our site.

This Business Continuity Plan (BCP) provides information on:

- How to handle the likely types of failure to ensure business continuity.
- The recommended action dependent on the duration of the interruption.
- How to identify when a matter progresses from a business interruption to a Disaster recovery situation.

1.2 Scope

The scope of this document covers all the significant points of failure of the Supply Chain within the control of the Unit-2. This document covers the effect of these failures on three Critical Business Processes (CBP):

- Production planning and execution
- Quality management
- Distribution

2.0 BCP typically includes:

- Business Continuity Team Responsibilities and Communication
- Business Impact Analysis (BIA)
- Readiness procedures
- Business Interruption Scenarios
- Readiness Procedures
- Quality assurance techniques (exercises, maintenance and auditing)

2.1 Business Continuity Team Responsibilities and Communication

The Business Continuity Team comprises a group of managers or their delegates that can assess the impact of the failure on the business and implement contingency measures appropriate to the local situation with focus on the Critical Business Processes. Members of Plant Management would be normally the members of BCP team also. Team is constituted of the following members.

- Managing director

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- Operations Head
- Technical Head
- Production Heads
- Engineering Head
- Quality Assurance Head
- Quality control Head
- HR Head
- Warehouse Head
- EHS Head
- IT Head

Managing Director - Manufacturing is responsible for overall management and co-ordination of the continuity effort, including identification of appropriate managers to form the Business Continuity Team (BCT). He will act as the BCT Leader or delegate this if appropriate. Contact details for the BCT members are noted in **Appendix 1**.

2.2 Business Impact Analysis (BIA)

The purpose of the BIA is to identify the organization's mandate and critical services or products, rank the order of priority of services or products for continuous delivery or rapid recovery and identify internal and external impacts of disruptions.

2.2.1 Identifying the mandate and critical aspects of an organization

This step determines what goods or services it must be delivered. Information can be obtained from the MOU statement of the organization and legal requirements for delivering the specific services and products. Separate annexures are attached for the product and the related critical services.

2.2.2 Prioritize critical services

Once the critical services are identified, they would be prioritized based on minimum acceptable delivery levels and the maximum period of down time before severe damage is caused to the organization results.

2.2.3 Identifying the impact of disruptions

The impact of a disruption to a critical service or business product determines how long the organization could sustain the loss of service or product, and how long clients would accept its unavailability. Based on this the time period for non-availability of a service or product is identified before severe impact.

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2.2.4 **Identifying areas of potential loss**

To determine the loss of revenue, the processes and functions that support service or product delivery involved with the revenue are determined. If these processes and functions are not performed, the revenue loss and the volume of revenue loss and the organizational revenue loss would be determined.

2.2.5 **Identify additional expenses**

If a business or process becomes inoperable, the time period lost before additional expenses would Begin to add up and how long the existing facility become non-available to perform operations and the additional expenses required to put it on line would be evaluated. The extra personnel required and the expenses for hiring them and the period of such continuity would also be evaluated.

2.2.6 **Insurance requirements**

Details regarding the coverage of insurance for the product claimed by the company made Available.

2.2.7 **Identifying dependencies.**

Internal and external dependencies of critical services or product are identified, since service delivery relies on those dependencies. Internal dependencies include employee availability, corporate assets such as equipment, facility, computer applications, data, Tools, vehicles, and support services such as finance, human resources, security and information technology support. External dependencies include suppliers, any external corporate assets such as equipment, Facility computer applications, data, Tools, vehicles and any External support services such as facility, management, utilities, communications, transportation, finance instructions, insurance providers, government services, legal services and health and safety service.

2.3 **Readiness Procedures:**

2.3.1 **Training**

Business continuity plan is smoothly and effectively implemented by:

Having all employees and staff briefed on the responsibilities trained for tasks they will be required to perform, and beware of other team's functions

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Allocating employees either direct responsibilities trained for tasks they will be required to perform and beware of other team's functions.

2.3.2 **Exercises**

After training, mock drills are developed and scheduled in order to achieve and maintain high levels of competence and readiness. While exercises are time and resource consuming, they are the best method for validating a plan. The following items are also incorporated when planning an exercise:

2.3.2.1 **Artificial aspects and Assumptions:**

Defines which exercise Aspects are artificial or assumed, such as background information, procedures to be followed, and equipment availability. Participant instructions explains that, the exercise provides an opportunity to test procedures before an actual disaster.

2.3.2.2 **Exercise Narrative** gives participants the necessary background

Information sets the environment and prepares participants for action. It is important to include factors such as time, location, method of discovery and sequence of events, whether events are finished or still in progress, initial damage reports and any external conditions.

2.3.2.3 **Communications** for participant's enhanced realism can be achieved by giving participants access to emergency contact personnel who share in the exercise. Messages can also be passed to participants during an exercise to alter or create new conditions.

2.3.2.4 **Testing and post-Exercise Evaluation** the exercise should be monitored impartially to determine whether objectives were achieved. Participant's performance, including attitude, decisiveness, command, co-ordination, Communication, and control should be assessed. Debriefing should be short, yet comprehensive; explaining what did and did not work, emphasizing successes and opportunities for improvement. Participant's feedback also incorporated in the exercise evaluation. Exercise complexity level also enhanced by focusing the exercise on one part of the BCP instead of involving the entire organization.

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2.4 Quality Assurance Techniques

Review of the BCP should assess the plan's accuracy, relevance and effectiveness. It should also uncover which aspects of a BCP need improvement. Continuous appraisal of the BCP are essential to maintaining its effectiveness. The appraisal is performed by an internal review.

2.4.1 Internal review

It is recommended that organizations review their BCP:

- On a scheduled basis(bi-annually)
- When changes to that threat environment occur;
- When substantive changes to the organization take place; and
- After an exercise to incorporate findings.

3.0 Business Interruption Scenarios

Various measures have been taken to prevent business interruptions.

List of some of the existing control measures are furnished as below.

- All reaction vessels are provided with Nitrogen gas blanketing, to ensure inertisation facility to remove fire hazard.
- All centrifuges, dryers are provided with Nitrogen gas blanketing to ensure inertisation facility.
- All reaction vessels, storage tanks are provided with proper Flame arrestors to prevent outside fire should not enter
- All equipment including Reactors, storage tanks, filters, dryers, pumps, vessels, sifters, milling equipment and blenders are provided with double body earthing.
- Earth Continuity is being tested at periodical intervals. Earth pits are maintained as per the prescribed standards.
- All pressure vessels are being tested and certified by competent person as per Factories Rules.
- All buildings and structures are provided with lightning arrestors.
- Solvent unloading areas are provided with earth continuity.
- A well -defined work permit system is in place to carry out hot works, confined space jobs and other critical jobs.
- All storage tanks are provided with Dyke walls of appropriate capacity for proper containment in the event of leak.
- Safety surveillance is being ensured through a dedicated team of members.
- Fire Fighting Drills, Mock Drills are conducted from time to time.
- New recruits are trained for full day on Safety at the time of joining.
- Refresher training is being conducted as per the training calendar covering all employees.

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- Safety inspections are conducted at one-year interval and observations are attended based on criticality review
- External inspections are carried out periodically through competent agencies and recommendations are implemented from time to time.
- Spark arrestors are in place at security and followed strictly to fix on the vehicles engine silencer outlet, which are entering inside the company premises.
- Security guards are manned across the plant for a constant vigil and deviations are being informed to senior Administration team.
- For emergency medical assist KPCL Hospital services is available from 9 kilo meter from the Unit-2.
- Though several control measures are in place, there can be a wide range of business interruption scenarios that may affect the Supply Chain, many of which have been identified and risk management practices and procedures are in place to reduce their likely occurrence and impact. Those that are more critical have been noted below.

3.1 **Duration of Failure:**

Likely duration of failure will decide the impact on business continuity. Historically it has been observed that failures that can get resolved within 48 hours will not lead to any significant impact on business.

Therefore, in the event of any business interruption, BCT should assess the likely duration of resolving the issue. If this duration is anticipated to be more than 48 hours, then BCT may need to take support from above site functions.

3.2 **Power Failure**

The average monthly electricity consumption of the factory is 1 7 8 7 2 0 8 K W H units. Power failure can happen in the event of major grid failure or K E B power shut down or defect in local distribution system

Consequen	Contingency plan	Recovery strategy
Will affect all operations at site	Location has 05 DG Sets aggregate to 4125 KVA comprising -3nos x 625 KVA-1no x 750 KVA and 1no x 1500 KVA. Captive Power Plant caters to entire plant operations. Adequate diesel inventory is being maintained in the storage yard to operate DG sets. in case of failure	DG set can be activated within Five minute's time. Monitor and ensure adequate stock of Diesel oil is replenished. Liaison with Power supply and distribution board to gain knowledge on nature of issue and magnitude of problem and likely duration of restoration will be reviewed with senior team of KEB Plan further actions depending on feedback from Power supply Board.

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3.3 Shortage/failure of water supply

The average water consumption of the factory is of the order of 144 KL/Day.

Consequences	Contingency plan	Recovery strategy
Stoppage of production Discomfort to employees	Water is supplied by Industrial Development authority. Hence scarcity is not a cause of concern. In addition, unit has water storage capacity of 510 Cu. M. dedicated storage for firefighting). in case interruption of KIADB water sufficient bore well water supply units are available. In case failure of supply operations can continue uninterrupted for 6 days.	Consider need for water supply through private water tankers and arrange for the same. If prolonged acute shortage of water supply is envisaged manufacturing will be affected. Shall, consider diverting production to other units of Shilpa Group.

3.4 Major Breakdown of Utilities: Boiler:

Consequences	Contingency plan	Recovery strategy
Production stoppage	Currently unit has 2 boilers with one is having 6 Ton capacity and another one is 10Ton capacity, Both the boilers are in service duly approved by Boiler Inspector with scheduled yearly inspection. Every frequent intervals Boiler is being taken for preventive maintenance and bring it to satisfactory performance	Since stand by boilers available explosion in one boiler cannot lead to complete stoppage of all boilers. Complete stoppage would come in picture only if boiler inspector orders stoppage of all boilers until clearance from Boiler Inspector on event of major explosion. Clearance from Boiler inspector and completion of formalities would take about 15 days. 1. If stand by boilers are available in operating condition, they can be put in to use for commencement of Production immediately. 2. If new installation is involved it would take at least 1-2 months for commencement

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Consequences	Contingency plan	Recovery strategy
		<p>of production activity.</p> <p>Initiate action for necessary repairs as applicable by consulting with Boiler Inspector and Competent person.</p> <p>In case prolonged period of boilers being out of service is expected, transfer of products to other plants of Shilpa Group needs to be considered.</p> <p>These kinds of product transfers to contract manufacturing can be affected in a timeline of one month.</p>

3.5 Explosion at Cylinder Storage Shed:

Consequences	Contingency plan	Recovery strategy
<p>Fire Exposure to hazardous gases. Personnel injury Shortfall in productivity</p>	<ol style="list-style-type: none"> a. The gas cylinders are leak proof regulators with pressure gauge to detect any type of leakage. b. Lightning arrester was installed. c. Face shield and Canister mask are used as PPE while handling compressed gas cylinders. d. Fire Extinguishers and Fire balls are installed in the Cylinder storage shed to handle the emergency scenarios. e. Fire hydrant system available to handle the fire emergency situation. 	<p>Considering the Hazardous nature of the cylinder storage yard, the yard is separated from the main raw material storage area.</p> <p>Alternate cylinder storage area in-place to store the Cylinders for short period in-order to overcome the production delays.</p> <p>Cylinder storage yard shall be re-built with necessary safety measures after completion of emergency situation.</p>

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Consequences	Contingency plan	Recovery strategy
Fire Explosion Impact on productivity	<p>The boilers were equipped with safety valves to handle the emergency Scenario,</p> <ol style="list-style-type: none"> 1) pressure high relay switch, - boiler will trip. 2) water level mobrey switch 40% - extra low level – boiler will trip. 3) Safety valve will lift @10.54 bar pressure; 4) high flue gas temperature at furnace out let 280 Deg c will trip the boiler 5) high flue gas temperature of 180 Deg C at bag filer will trip the boiler, 6) Fusible plug provided to melt & relieve the pressure, when the boiler water level is extra low there by control the failure / Explosion Scenario. 7) All the equipment, structure is provided with earthing & lightning arrestor is provided to take care of the electrical hazards. 	<p>Considering the Hazardous nature of the equipment, the boiler house is separated from the Main manufacturing blocks.</p> <p>Since standby boilers is there any explosion in one boiler cannot lead to complete stoppage of both the boilers. Production can be run with second boiler.</p> <p>Assess the nature of repairs, spare part requirement and arrange repairs.</p> <p>Regular preventive maintenance in place. Repairs would take maximum of 24 Hrs.</p> <p>New boiler with necessary safety features shall be procured and installed.</p>

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Consequences	Contingency plan	Recovery strategy
<p>Fire Explosion Exposure to hydrogen gas Impact on productivity</p>	<ol style="list-style-type: none"> a. Periodical Pressure testing is done b. Before starting the hydrogenation Process inertisation is ensured by alternating cycles of Vacuum & Nitrogen. c. The system is provided with safety relief Valve & Rupture Disk, both these connected to a dump tank with water seal, the dump tank is provided with the flame arrester. d. High Pressure & High Temperature alarms are provided on the equipment. e. Sensitive Hydrogen Leak Detectors are provided near the reactor and Manifold. f. Flash back arrestor in the manifold to the reactor. g. Close system sampling is done & the system is flushed with the water. h. Evacuation of Hydrogen is done through the dump tank gradually in over one hour. i. Filtration is done in the closed Pressure Nutsche filter & is done with the nitrogen pressure. 	<p>Emergency evacuation plan in-place with safety precautions for exiting block</p> <p>Assess the nature of repairs, spare part requirement and arrange repairs.</p> <p>Regular preventive maintenance in place.</p> <p>Repairs would take maximum of 24 Hrs.</p> <p>Block has insurance to cover the cost of reinstatement of the equipment</p> <p>Alternate manufacturing site of Shilpa Medicare Limited, Unit-1 is available around 4KM distance and can be considered for manufacturing through product transfer.</p> <p>Hydrogenation block shall be re-build with necessary safety measures after completion of emergency situation.</p> <p>Openly communicate with the customers about the emergency and inform about the changes in production plan due to emergency.</p>

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Consequences	Contingency plan	Recovery strategy
Fire Exposure to solvent vapors Impact on productivity	<p>a. Solvent drum storage shed is having adequate ventilation.</p> <p>b. Conductive drums are being used for the storage of solvents.</p> <p>c. Fire Extinguishers and Fire balls are installed in the solvent drums storage yard to handle the emergency scenarios.</p> <p>d. Fire hydrant system available to handle the fire emergency situation.</p> <p>e. Sprinkler system is in place</p> <p>f. Lightening arrestors are provided.</p>	<p>Considering the Hazardous nature of the solvent drum storage yard, the block is separated from the main raw material storage area.</p> <p>Alternate drum storage area in-place to store the drums for short period in-order to overcome the production delays.</p> <p>Drum storage yard shall be re-built with necessary safety measures after completion of emergency situation.</p> <p>At the of dispensing area the static electricity discharge rods with earthing continuity shall be in place & spill control kit is in place.</p>

3.9 Air conditioning in Finished Product stores:

Consequences	Contingency plan	Recovery strategy
GMP risks associated with storage of raw materials and finished products	Stores have stand by AC Units of 2 T capacity and 2 refrigerators.	<p>Assess the nature of repairs, spare part requirement and arrange repairs.</p> <p>Repair team available at site and repairs would take maximum of 24 Hrs.</p>

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Warehouse is provided with individual cooling arrangement. Thus, failure of all Cooling units at a time is not envisaged.

Consequences	Contingency plan	Recovery strategy
GMP risks associated with storage of raw materials and finished products,	Stand by AC in place. Use the available spares. Replacement of AC is simple task which can be done in 1 hour time.	Arrange for Repairs/replacement of cooling units. Stand by AC are provided. If the excursion period exceeds more than 24 hrs then the material shall be shifted to other controlled storage areas. Repairs of AC's rooms would take maximum one week's time and the services can be restored.

3.11 Shortage of Husk (used for Boiler operation):

Consequences	Contingency plan	Recovery strategy
Low steam generation affecting production	Site maintains an inventory of fifteen days requirement (400-500 Tons). This would Provide cushion for shortage of supply for moderate period.	There are two major Suppliers in this region. M/s Sri Yallamma traders, M/s Raw Intex & M/s Anushka Enterprises with them to build up additional inventory.

3.12 Failure of Diesel Generator:

Consequences	Contingency plan	Recovery strategy
No power supply on failure of state power Supply. Stoppage of all activities at site in case of failure of state power supply.	Location has 05 DG Set. Aggregate 4150 KVA Completely ensuring the 100% alternate supply for all critical Operations. DG sets can cater for entire power requirement of location.	Assess the extent of repairs, resources and plan execution to bring DG back in working condition. Repairs of the Diesel generator would take one week to one month time (depending upon nature of failure) and the services can be restored.

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3.13 Failure of Cooling Towers:

Consequences	Contingency plan	Recovery strategy
Stoppage of Room Temperature Water, no impact on production is expected	<p>Breakdown period is not Expected to be more than 48 hours.</p> <p>There are 11 No's of cooling Towers (3899 TR). Break-down in one system can be compensated by idle system. Apart from 02 No's cooling towers are available for multiple effect evaporator</p> <p>Raw water and re-cycled to be used for cooling activities.</p> <p>Spares are available at site as well as in local market and can be procured easily.</p>	<p>As per contingency plan.</p> <p>Restoration of cooling tower can take place within 3- 4 days.</p>

3.14 Failure of Process Equipment:

Process Equipment's are identified and given in **Appendix -3**.

Alternate is available for almost all the equipment. Thorough preventive maintenance is scheduled and is being followed for all the process equipment. Critical spares are being maintained on site. Hence, break down is not anticipated for more than 48 hours. (**Ex.:** Block AO Bi-Polar is most critical Equipment brought from Japan.

All the critical Spares are available all the time such as, Membrane, Resin, Pumps, boiler, Rectifier etc)

If still, any break down occurs for more than 48 hours, BCT will decide whether to manufacture the effected process in any other block / unit by following the deviation /change control procedure.

3.15 Failure of ETP/ Pipeline:

Daily average generation of raw effluent is 133 KL/Day. ETP has total holding capacity of 787 KL.

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Consequences	Contingency plan	Recovery strategy
Regulatory non-compliance, Stoppage of Production	Effluent collection tanks are available which will be sufficient to store wastewater for about 3 days. Equipment /components involved are readily available in local market.	Repairs /replacement for the failed components to be arranged on priority basis. Repairs/ replacement would take maximum one week's time.

3.16 Major Fire:

Consequences and contingency plan would vary depending on area involved.

Facilities available, details regarding means of communication, responsibilities, contact numbers etc. are provided in 'On site Emergency Plan' of the unit.

RM W.H - Separate Block & built as per Hazardous Area Classification guidelines

3.16.1 **Raw Material Ware houses**- It stores Liquid drums / solid drums / bags of different materials. In the event of the loss of materials held in Warehouse, it is anticipated that there would be a consequential loss of about 3-4 weeks of raw materials (more in case of imported materials in view of higher lead times involved) and a minimum of 2 week's downtime of production due to loss of these materials before additional materials can be obtained from suppliers. The batches that are currently in production will be able to be completed.

Consequences	Contingency plan	Recovery strategy
Fire Explosion Production would suffer	Day to day requirements to be Ordered that can be stored in production area. As these buildings are separated by safe distance, spread of one building fire to Another building is not anticipated. In the event of one building fire, the required materials can be accommodated in other RM W.Hs by reducing the inventory.	Contingency plan action be to extended till the repairs to solvent store building are over and its use is approved by regulatory authority. If the total loss of the Warehouse is involved, consider converting suitable areas on premises as alternative warehouses. Restoration can take place between one month to six months depending upon extent of damage.

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3.16.2 **Fire in manufacturing blocks-** Unit has different manufacturing blocks as under:

- C -Block - Separate Block & built as per Hazardous Area Classification guidelines
- D -Block - Separate Block & built as per Hazardous Area Classification guidelines
- H -Block - Separate Block & built as per Hazardous Area Classification guidelines
- I -Block - Separate Block & built as per Hazardous Area Classification guidelines
- AI -Block -Separate Block & built as per Hazardous Area Classification guidelines
- AM-Block - Separate Block & built as per Hazardous Area Classification guidelines
- AO-Block - Separate Block & built as per Hazardous Area Classification guidelines
- E-Block - Separate Block & built as per Hazardous Area Classification guidelines
- G -Block - Separate Block & built as per Hazardous Area Classification guidelines
- AO-Block - Separate Block & built as per Hazardous Area Classification guidelines

Consequences	Contingency plan	Recovery strategy
In case of fire in a Particular manufacturing block, production of that particular area will be affected. SAP systems it may get damage. PLC along with SCADA failure	Manufacture of affected Product should be planned at our nearby unit-1 API (or) a suitable loan licensee site. This may involve time gap of 4-6weeks. Alternative systems to be arranged for operation after power and connectivity will be restored. Application data will be restored from the backup.	Damage doesn't Spread as production blocks are separated by adequate & safe distances. If the damage is confined to one / two areas, then product's transfer to other production blocks would be done as per quality & safety guidelines. Assess damage and identify resources required to restore. All SAP activity are being

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		<p>handled by SAP team in Head office.</p> <p>Data will be available in External back up hard disk.</p> <p>SOPs for relocation</p> <p>Obtain necessary approvals from regulatory authorities and restoration of facilities.</p> <p>If the damage due to fire is wide spread, then product transfers to CM locations or another blocks/nearby our unit-1 API plant which would involve a time frame of about one month.</p> <p>Restoration of facilities would involve time frame of one month to one year depending upon extent of damage to building and equipment.</p>
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3.16.3 Fire in Laboratories -Raw material and finished product testing is carried out at QC.

Consequences	Contingency plan	Recovery strategy
<p>Testing will not be possible, batch releases would be delayed affecting delivery to distribution.</p> <p>Standalone PC will effect</p>	<p>Site is equipped with QC Building facilities. Testing / Analysis would be prioritized for releasing the batches.</p> <p>Services of approved external laboratories to be pressed into after consulting local authority.</p> <p>Minimum number of instruments from other units of Shilpa group should be shifted.</p> <p>External Analysis Labs at</p>	<p>Action identified in the Contingency plan to continue. If major loss of equipment is involved, procurement action to be initiated on priority.</p> <p>Availability of equipment's from other site or on hire basis to be explored.</p> <p>Restoration of facilities would involve time frame of one month to one year or more depending upon extent of damage to bldg. and</p>

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	<p>Hyderabad should be contacted for analysis.</p> <p>Consider sending materials to Deosugur unit-1 of Shilpa.</p> <p>Standalone work satiations and Empower clients back up is available in head office.</p> <p>List of assembly points, evacuation routes and relevant procedures are available.</p> <p>Proper security and safety training has been imparted for staff.</p>	<p>equipment.</p> <p>From back up available in Head office can be put in use within about 1-2 days.</p> <p>SOPs for relocation.</p>
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3.16.4 **Fire in Record room-** All BPRs (Batch Production Records) are stored in a separate room till specified period.

Consequences	Contingency plan	Recovery strategy
Regulatory non-Compliance.	Retrieve the records to the Extent practicable.	Records lost cannot be Regenerated. Pending restoration of facility, alternate location to be identified. Restoration of facilities Would involve time frame of one month to six months depending upon extent of damage to area.

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3.16.5 **Fire in Tank farm area** – Different solvents is being stored in the tank-farm, which is approved by PESO. The tank-farm is constructed by considering the required design standards by PESO.

Consequences	Contingency plan	Recovery strategy
Damage to solvent tanks Would affect production.	For Solvents, tanker from the supplier to be retained at site from which solvents can be charged to Day tanks located in Production blocks.	Pending restoration of storage facility, actions planned for contingency plan should continue. Plan for restoration of facility, obtain approval from regulatory authority and execute. Restoration of facility may take six months to one year.

3.16.6 **Fire in Electrical Substations**-There is two substations receiving supply from KEB (Government Supply) Substation no.1 caters for total plant areas.

Consequences	Contingency plan	Recovery strategy
All activities of the Blocks receiving service will come to standstill. This will however depend on extent and nature of damage.	Repairs to be assessed, Service providers to be contacted and plan for restoration. Equipment /components involved are readily available in local market.	Repairs /replacement for the failed components to be arranged on priority basis. Repairs/ replacement would take maximum one month's time depending upon extent of damage. Transfer of products from the affected block to be considered on need basis.

3.17 Natural calamities

3.17.1 **Flood** – Our Unit falls in low / medium rains fall zone. The average rainfall in Area is 1131 mm, though very heavy rainfall cannot be ruled out. The site is situated on the slope and there is good gradient which will not allow rain / storm water accumulation. Due to torrential rains there could be

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seepage of water through the roofing in the production / office area, however due to this business will not be interrupted.

3.17.2 Earthquake- This area where our unit is located does not have any history of earthquake at or areas in the vicinity. This area is not prone or falls under seismic zone.

However Onsite Emergency Plan (OSEP) indicates initial actions to be taken in such events. Local District Administration would deal with such situations considering their off-site effects and magnitude.

3.18 Climate Change Risk

Consequences	Contingency plan	Recovery strategy
<p>1. Generation of GHG causing global warming.</p> <p>2. More frequent and intense droughts, storms, heat waves, rising sea levels, melting glaciers, and warming oceans, harming living beings, worsening climate change, dangerous weather events.</p> <p>3. May adversely impact our business if we fail to meet the expectations of customers w.r.t. climate change mitigation targets as a supply chain partner.</p> <p>4. May adversely impact business if the suppliers fail to meet our expectations w.r.t. climate change mitigation targets as a supply chain partner.</p>	<p>1. Monitoring energy use and GHG (Scope 1, Scope 2 & Scope 3) inventorization.</p> <p>2. Implemented energy (thermal and electrical) conservations measures.</p> <p>3. Switched over to renewable energy and renewable fuels.</p> <p>4. Selected refrigerants with no or low global warming potential.</p> <p>5. Availability of alternate suppliers for key materials, renewable fuels and renewable energy.</p>	<p>Any interruption of key materials, renewable fuels and renewable energy be restored in 1-2 weeks' time.</p>

3.19 Food poisoning at Site

Food poisoning can be detected immediately. Breakfast and lunch timings for first, general and second shift are different. In case of food poisoning it can be

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detected in time and corrective actions will be taken promptly. Company business will not be affected due to this situation.

3.20 Supplier Failure

Contract Manufacturing Locations are watched for risk controls at periodical intervals. Inventory levels of both raw materials and finished products are also maintained to ensure that any failure on behalf of a supplier can be managed or is identified early to ensure there is no significant delay in production.

Development of new source may take up to one- two months period.

List of suppliers (product-wise) is readily available with QA and should be referred during decision making.

3.21 IT Failure

Fire in IT Room -This room caters for servers.

Consequences	Contingency plan	Recovery strategy
QC Area: Connectivity loss, Servers may get damage like EMPOWER DC, ICDAS software and training management.	EMPOWER DC, ICDAS software Servers back up is available in head office.	Any loss in local servers can be restored in two weeks' time. In case of complete damage of local server room, DHCP, DNS, ADC applications. From primary servers located in Corporate IT Department from Head Office can be put in use within about 1-2 days. Outlook can be restored within 24 Hrs. Daily Hot backup will be taken from server to hard disk by default system. Weekend cold back up backup will be taken from server to hard disk by default system. Monthly backup will be taken from server to tape drive or Hard disk by IT person. Back up taken into the Two External Hard disk. One is kept at QA Archival room another one kept at Corporate office. Identify the alternative disaster recovery site along with Disaster recovery SOP to be prepared.

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3.22 Resources

The most crucial resource that will be required in the event of a business interruption is that of the managers and staff who have knowledge and experience in the areas that are affected. The initial resource priority will be to contact the relevant manager via the BCT (if not a member), followed by co-ordination of activation of their relevant business units to begin business recovery.

Other resources required will then be identified by the various business units

3.23 Testing of Plan

Elements of BCP will be tested as under

Sr.No	Elements to be tested	Frequency	Responsibility	Comment
1.	Site emergency scenarios like fire, spillage, evacuation	At least once a year	EHS Head	Mock scenarios are given maintaining element of surprise. Observations are documented and circulated to concern.
2.	Other elements	once in a year (for a Selected failure)	HR Head	A particular failure scenario will be selected. Basically a table top exercise but following elements will be checked actually e.g. contact with key, personnel, Contact with external, agencies and time taken to establish contacts, accessibility to records etc.

4.0 What to do when a Disruption Occurs

Disruptions are handled in three steps:

Response

Recover and Restoration

Review of Plan

4.1 Response

4.1.1 Incident management:

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Incident response involves the deployment of teams, plans, measures and arrangements. Incident management includes the following measures:

- Notifying management, employees, and other stakeholders;
- Assuming control of the situation;
- Identifying the range and scope of damage;
- Implementing plans;
- Identifying infrastructure outages; and
- Coordinating support from internal and external sources.
- Communications management
- Operations management

4.1.2 Communications management

Communications management is essential to control rumors, maintain contact with the media, emergency services and vendors and assure employees the public and other affected stakeholders. Communications management requirements may necessitate building redundancies into communications systems and creating a communications systems and creating a communications plan to adequately address all requirements.

4.1.3 Operations management

An Emergency Control Centre (ECC) is being used to manage operations in the event of a disruption. Having a centralized ECC where information and resources can be coordinated, managed, documented helps ensure effective and efficient response.

4.1.4 Continuation of critical services

Ensure that all time –sensitive critical services or products are continuously delivered or no disrupted for longer than is permissible.

4.2 Recover and Restoration

The goal of recovery and restoration operations is to, recover the facility or operation and maintain critical services or product delivery. Recovery and restoration includes:

- Re-deployment of personnel
- Deciding whether to repair the facility, relocate to an alternate site or building within the facility

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- Acquiring the additional resources necessary for restoring business operations
- Re-establishing normal operations
- Resuming operations at pre-disruption levels

4.3 Review of Plan

Review of Plan shall be done at least once in year.

However, in case of major changes at site facilities, change in risk profile, major events, BCP would be reviewed irrespective of schedule.

Appendix 1-Contact List

Title	Name	Mobile No.
Managing Director	Mr. Vishnukant Bhutada	9880043786
Head- operations	Mr. K.H Honneshaiah	9611271355
Director- Technical	Mr. Sharath Reddy	9845745068
Vice president- Quality & RA	Dr. U. Seshachalam	9972596782
Oncology Production Head	Mr. Veereshappa	9845627900
Non Oncology Production Head	Mr. Govindappa Galagali	8105155540
Engineering Head	Mr. Jaya kumar Kotwal	7899740069
Warehouse Head	Chandrasekhar.S. Dudhani	9550483496
P&A Department Head	Mr. Arvind Kumar Singh	9611168367
EHS	Dr. R.Ellangovan	9500084129

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S.No	Office / Organization	Telephone No
1	Dy. Commissioner	08532-229011,226384
2	Director of Factories, Bangalore	080-26531200
3	Dy. Director of Factories &Boilers, Raichur	08532-233011
4	Govt .Hospital	08532-226392
5	Ambulance	108,08532-235102
6	Fire Station (RCR)	101,08532-235101
7	Police Station (Shaktinagar)	100,08532-246133
8	Bus station (Shaktinagar)	08532 226381
9	Rail way station(RCR)	139,08532-235051
10	Blood bank	08532-226608
11	KPCL Hospital	08532-246120
12	KSEB Office(Shaktinagar)	08532246517

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Appendix 2-Process Equipment's List of All Blocks:

S. No	Name of the Equipment	Equipment ID	Capacity	MOC
1	Glass Lined Reactor	AI/RE-01	0.16 KL	MSGL
2	Glass Lined Reactor	AI/RE-02	0.10 KL	MSGL
3	Glass Lined Reactor	AI/RE-03	0.10 KL	MSGL
4	Glass Lined Reactor	AI/RE-04	0.063 KL	MSGL
5	Stainless Steel Reactor	AI/RE-05	0.10 KL	SS 316
6	All Glass Reactor	AI/RE-06	30 Lt	All Glass
7	All Glass Reactor	AI/RE-07	30 Lt	All Glass
8	All Glass Reactor	AI/RE-08	10 Lt	All Glass
9	All Glass Reactor	AI/RE-09	05 Lt	All Glass
10	Glass Lined Reactor	AI/RE-10	0.10 KL	MSGL
11	All Glass Reactor	AI/RE-11	10 Lt	All Glass
12	Glass Lined Reactor	AI/RE-12	0.25KL	MSGL
13	Isolator Nutsche Filter	AI/ISNF-01	--	SS-316
14	Isolator VTD	AI/ISVTD-01`	--	SS-316
15	Isolator	AI/IS-01	--	SS-316
16	Pack-off Isolator	AI/PIS-01	--	SS-316
17	Vacuum Tray Drier	AI/VTD-01	12 Trays	SS-316
18	Vacuum Tray Drier	AI/VTD-02	12 Trays	SS-316
19	Vacuum Tray Drier	AI/VTD-03	12 Trays	SS-316
20	Vacuum Tray Drier	AI/VTD-04	12 Trays	SS-316
21	Pressure Nutsche Filter	AI/PNF-01	200 Lt	SS-316
22	Pressure Nutsche Filter	AI/PNF-02	60 Lt	SS-316
23	Pressure Nutsche Filter	AI/PNF-03	20 Lt	SS-316
24	Pressure Nutsche Filter	AI/PNF-04	10 Lt	SS-316
25	Nutsche Filter	AI/NF-01	50 Lt	SS-316
26	Nutsche Filter	AI/NF-02	50 Lt	SS-316
27	Multi Mill	AI/MM-01	5-25 Kg/hr	SS-316
28	Vibro Shifter	AI/VSF-01	12"	SS-316
29	Blender	AI/DBL-01	15 Lt	SS-316
30	Sparkler Filter	`AI/SF-03	8" x 9 Plates	SS-316
31	Sparkler Filter	AI/SF-04	8" x 4 Plates	SS-316
32	Sparkler Filter	AI/SF-05	14" x 11 Plates	SS-316
33	Air Shower	AI/AS-01	2 Persons	G.I Powder coated
34	Air Shower	AI/AS-02	2 Persons	G.I Powder coated

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S. No	Name of the Equipment	Equipment ID	Capacity	MOC
35	Air Shower	AI/AS-03	2 Persons	G.I Powder coated
36	Dynamic Pass Box	AI/DPB-01	--	SS-316
37	Air Handling Unit	AI/AHU-01	7000 CFM	--
38	Air Handling Unit	AI/AHU-02	1500 CFM	--
39	Air Handling Unit	AI/AHU-03	2500 CFM	--
40	Air Handling Unit	AI/AHU-04	15000 CFM	--
41	SS column	AI/SSC-02	-	SS 316
42	Stainless Steel Reactor	AJ/RE-01	6.0 KL	SS -316 L
43	Stainless Steel Reactor	AJ/RE-02	6.0 KL	SS -316 L
44	Stainless Steel Reactor	AJ/RE-03	6.0 KL	SS -316 L
45	Stainless Steel Reactor	AJ/RE-04	4.0 KL	SS -316 L
46	Glass Lined Reactor	AJ/RE-05	6.3 KL	MSGL
47	Glass Lined Reactor	AJ/RE-06	6.3 KL	MSGL
48	Centrifuge	AJ/CF-01	Ø 48"	SS -316
49	Centrifuge	AJ/CF-02	Ø48"	SS -316
50	Centrifuge	AJ/CF-03	Ø 48"	SS -316
51	Tray Drier	AJ/TD-01	96 Trays	SS-316
52	Tray Drier	AJ/TD-02	96 Trays	SS-316
53	Double Cone Blender	AJ/DBL-01	3.0 KL	SS-316
54	Spherical Dryer	AJ/SD-01	1.0 KL	SS-316
55	All Glass Reactor	AM/RE-01	10 L	All Glass
56	All Glass Reactor	AM/RE-02	20 L	All Glass
57	All Glass Reactor	AM/RE-04	50 L	All Glass
58	Stainless steel reactor	AM/RE-06	100 L	SS-316
59	Stainless steel reactor	AM/RE-07	50 L	SS-316
60	Glass Lined Reactor	AM/RE-09	250 L	MSGL
61	Glass Lined Reactor	AM/RE-10	160 L	MSGL
62	Glass Lined Reactor	AM/RE-11	160 L	MSGL
63	Stainless Steel Reactor	AM/RE-12	250 L	SS 316
64	Glass Lined Reactor	AM/RE-13	100 L	MSGL
65	Glass Lined Reactor	AM/RE-14	1.0 KL	MSGL
66	Stainless Steel Reactor	AM/RE-15	1.0 KL	SS 316
67	Glass Lined Reactor	AM/RE-16	250 L	MSGL
68	Vacuum Tray Drier	AM/VTD-01	4 Trays	SS-316
69	Vacuum Tray Drier	AM/VTD-03	6 Trays	SS 316
70	Vacuum Tray Drier	AM/VTD-04	8 Trays	SS 316
71	Vacuum Tray Drier	AM/VTD-05	12 Trays	SS 316
72	Vacuum Tray Drier	AM/VTD-06	8 Trays	SS 316

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S. No	Name of the Equipment	Equipment ID	Capacity	MOC
73	Centrifuge	AM/CF-03	24"	Halar
74	Centrifuge	AM/CF-04	24"	SS 316
75	Centrifuge	AM/CF-05	24"	SS 316
76	Centrifuge	AM/CF-06	12"	SS 316
77	Centrifuge	AM/CF-07	24"	SS 316
78	Sparkler Filter	AM/SF-01	8" x 6 Plates	SS 316
79	Microniser	AM/MICRO-01	0.5 to 2 Kg/hr	SS-316
80	Pressure Nutsche Filter	AM/PNF-01	10 L	Halar
81	Pressure Nutsche Filter	AM/PNF-02	30 L	SS 316
82	Pressure Nutsche Filter	AM/PNF-03	30 L	SS-316
83	Pressure Nutsche Filter	AM/PNF-04	50 L	Halar
84	Pressure Nutsche Filter	AM/PNF-05	50 L	Halar
85	Vibro Sifter	AM/VSF-01	25 kg/hr	SS 316
86	Multi Mill	AM/MM-01	Up to 10-30 Kg/hour	SS316
87	Air Handling Unit	AM/AHU-01	2500 CFM	-
88	Dynamic Pass Box	AM/DPB-01	-	SS316
89	Stainless Steel Reactor	AO/RE-01	4 KL	SS316
90	Stainless Steel Reactor	AO/RE-03	5 KL	SS316
91	Stainless Steel Reactor	AO/RE-04	4 KL	SS316
92	Stainless Steel Reactor	AO/RE-05	3 KL	SS316
93	Stainless Steel Reactor	AO/RE-06	5 KL	SS316
94	Stainless Steel Reactor	AO/RE-07	4 KL	SS316
95	Stainless Steel Reactor	AO/RE-08	7.5 KL	SS316
96	Stainless Steel Reactor	AO/RE-09	4 KL	SS316
97	Stainless Steel Reactor	AO/RE-11	8 KL	SS316
98	Stainless Steel Reactor	AO/RE-12	6.3 KL	SS316
99	Stainless Steel Reactor	AO/RE-13	10 KL	SS316
100	Stainless Steel Reactor	AO/RE-14	4 KL	SS316
101	Stainless Steel Reactor	AO/RE-15	8 KL	SS316
102	Stainless Steel Reactor	AO/RE-16	12 KL	SS316
103	Stainless Steel Reactor	AO/RE-17	16 KL	SS316
104	Stainless Steel Reactor	AO/RE-18	12 KL	SS316
105	Stainless Steel Reactor	AO/RE-19	5.0 KL	SS316
106	Stainless Steel Reactor	AO/RE-20	8.0 KL	SS316
107	Glass Lined Reactor	AO/RE-21	16.0 KL	GLR
108	Stainless Steel Reactor	AO/RE-22	16.0 KL	SS316
109	Stainless Steel Reactor	AO/RE-23	15.0 KL	SS316
110	Stainless Steel Reactor	AO/RE-24	15.0 KL	SS316

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S. No	Name of the Equipment	Equipment ID	Capacity	MOC
111	Stainless Steel Reactor	AO/RE-25	8.0 KL	SS316
112	Stainless Steel Reactor	AO/RE-26	4.0 KL	SS316
113	Stainless Steel Reactor	AO/RE-27	12.0KL	SS316
114	Stainless Steel Reactor	AO/RE-28	4.0KL	SS316
115	Stainless Steel Reactor	AO/RE-29	12.0KL	SS316
116	Hydrogenator	AO/HY-01	4.0 KL	SS316
117	Hydrogenator	AO/HY-02	4.0 KL	SS316
118	Agitated Nutsche Filter Drier	AO/ANFD-01	2.5 KL	SS316
119	Agitated Nutsche Filter Drier	AO/ANFD-02	2.5 KL	SS316
120	Agitated Nutsche Filter Drier	AO/ANFD-03	5.0 KL	SS316
121	Agitated Nutsche Filter Drier	AO/ANFD-04	10.0KL	SS316
122	Drum Drier	AO/DD-01	8 Drums	SS316
123	Vacuum Tray drier	AO/VTD-01	96 Trays	SS316
124	Air Handling Unit	AO/AHU-01	12000 CFM	GI powder coated
125	Air Handling Unit	AO/AHU-02	5500 CFM	GI powder coated
126	Air Handling Unit	AO/AHU-03	15000 CFM	GI powder coated
127	Air Handling Unit	AO/AHU-04	15000 CFM	GI powder coated
128	Air Handling Unit	AO/EX-01	1000 CFM	GI powder coated
129	Pressure Nutsche Filter	AO/PNF-01	2.0 KL	SS316
130	Pressure Nutsche Filter	AO/PNF-03	200 L	SS316
131	Pressure Nutsche Filter	AO/PNF-04	2.5 KL	SS316
132	Pressure Nutsche filter	AO/PNF-05	0.3 KL	SS316
133	Pressure Nutsche filter	AO/PNF-06	5.0 KL	SS316
134	Sparkler Filter	AO/SF-02	14" x 11 Plates	SS316
135	Sparkler Filter	AO/SF-03	18" x 23 Plates	SS316
136	Sparkler Filter	AO/SF-04	18" x 23 Plates	SS316
137	Sparkler Filter	AO/SF-05	18" x 15 Plates	SS316
138	Sparkler Filter	AO/SF-06	18" x 23 Plates	SS316
139	Sparkler Filter	AO/SF-07	18" x 23 Plates	SS316
140	Sparkler Filter	AO/SF-08	18" x 23 Plates	SS316
141	Sparkler filter	AO/SF-09	18" x 23 Plates	SS316
142	Sparkler filter	AO/SF-10	18" x 23 Plates	SS316
143	Sparkler filter	AO/SF-11	18" x 23 Plates	SS316
144	Sparkler filter	AO/SF-12	18" x 23 Plates	SS316
145	Sparkler filter	AO/SF-13	18" x 23 Plates	SS316

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S. No	Name of the Equipment	Equipment ID	Capacity	MOC
146	Sparkler filter	AO/SF-14	24" x 24 plates	SS316
147	Sparkler filter	AO/SF-15	24" x 24 plates	SS316
148	Bi-polar	AO/BP-01	50 m ²	SS316
149	Centrifuge	AO/CF-01	48"	SS316
150	Centrifuge	AO/CF-03	60"	SS316
151	Ion Exchange system	AO/IX-01	5750 Liter per cycle	-
152	Ion Exchange system	AO/IX-02	5750 Liter per cycle	-
153	Ion exchange system	AO/IX-03	5750 liter per cycle	-
154	Bipolar membrane electrolyzer system	AO/BPED-01	8059 L	-
155	Evaporator	AO/EV-01	1800 Kg/hr	SS316
156	Evaporator	AO/EV-02	3.0 KL	SS316
157	Rotocone Vacuum Drier	AO/RCVD-01	2 KL	SS316
158	Dynamic Pass Box	AO/DPB-01	--	SS304
159	Dynamic pass Box	AO/DPB-02	--	SS304
160	Dynamic pass Box	AO/DPB-03	--	SS304
161	Powder transfer system	AO/PTS-01	300 Kg/Hr	SS 316
162	Pulverizer	AO/PULV-01	100-200 Kg/hr	SS316
163	Vibro Sifter	AO/VSF-02	150 to 600 Kg/hr	SS316
164	Stainless Steel Reactor	AX/RE-01	6.3 KL	SS316
165	Stainless Steel Reactor	AX/RE-02	6.3 KL	SS316
166	Stainless Steel Reactor	C/RE-01	2.0KL	SS-316
167	Stainless Steel Reactor	C/RE-02	2.0KL	SS-316
168	Glass Lined Reactor	C/RE-03	3.0KL	MSGL
169	Glass Lined Reactor	C/RE-04	3.0KL	MSGL
170	Stainless Steel Reactor	C/RE-05	4.0KL	SS-316
171	Stainless Steel Reactor	C/RE-06	4.0KL	SS-316
172	Stainless Steel Reactor	C/RE-07	4.0KL	SS-316
173	Stainless Steel Reactor	C/RE-08	6.0KL	SS-316
174	Stainless Steel Reactor	C/RE-09	4.0KL	SS-316
175	Stainless Steel Reactor	C/RE-11	5.0KL	SS-316
176	Stainless Steel Reactor	C/RE-12	5.0KL	SS-316
177	Stainless Steel Reactor	C/RE-13	5.0KL	SS-316
178	Glass Lined Reactor	C/RE-14	4.0KL	MSGL
179	Stainless Steel Reactor	C/RE-15	4.0KL	SS-316
180	Glass Lined Reactor	C/RE-16	5.0KL	MSGL
181	Spherical Drier	C/SD-01	1.5 KL	SS-316

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S. No	Name of the Equipment	Equipment ID	Capacity	MOC
182	Glove Box	C/GB-02	--	SS-316
183	Air Handling Unit	C/AHU-01	7300 CFM	----
184	Air Handling Unit	C/AHU-02	8800 CFM	----
185	Air Handling Unit	C/AHU-03	4500 CFM	----
186	Air Handling Unit	C/AHU-04	10779 CFM	----
187	Air Handling Unit	C/AHU-05	11752 CFM	----
188	Air Handling Unit	C/AHU-06	8000 CFM	----
189	Pass box	C/DPB-01	--	SS304
190	Pass box	C/DPB-02	--	SS304
191	Ventilation	C/V-01	15600 CFM	----
192	Sparkler Filter	C/SF-01	18"X23	SS 316
193	Centrifuge	C/CF-04	48"	SS-316
194	Centrifuge	C/CF-05	48"	SS-316
195	Centrifuge	C/CF-06	48"	SS-316
196	Isolator VTD	C/ISVTD-02	----	SS 316
197	Vacuum Tray Drier	C/VTD-04	140 TRAYS	SS 316
198	Isolator	C/IS-01	----	SS 316
199	Pack-off Isolator	C/PIS-01	----	SS 316
200	Pack-off Isolator	C/PIS-02	----	SS 316
201	Isolator Vibro Sifter	C/ISVSF-03	24"	SS 316
202	Isolator Multi Mill	C/ISMM-02	250.0 Kg/Hr	SS 316
203	Roto Cone Vacuum Drier	C/RCVD-01	1500.0L	SS-316
204	Agitated Nutsche Filter Drier	C/ANFD-02	2 m ²	SS-316
205	Pressure Module	C/PM-01	2100 CFM	----
206	Pressure Module	C/PM-02	2100 CFM	----
207	Pressure Module	C/PM-03	2100 CFM	----
208	Pressure Module	C/PM-04	2100 CFM	----
209	Pressure Module	C/PM-05	2100 CFM	----
210	Pressure Module	C/PM-06	2037 CFM	----
211	Pressure Module	C/PM-07	2037 CFM	----
212	Pressure Module	C/PM-08	2037 CFM	----
213	Pressure Module	C/PM-09	2037 CFM	----
214	Pressure Module	C/PM-10	2037 CFM	----
215	Pressure Module	C/PM-11	2037 CFM	----
216	Pressure Module	C/PM-12	1950 CFM	----
217	Air Shower	C/AS-01	----	----
218	Air Shower	C/AS-02	----	----
219	Blender	C/BL-01	1500.0L	SS-316

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S. No	Name of the Equipment	Equipment ID	Capacity	MOC
220	Pressure Nutsche Filter	C/PNF-01	200 L	SS316
221	Glass Lined Reactor	D/RE-02	4.0 KL	MSGL
222	Glass Lined Reactor	D/RE-10	6.3 KL	MSGL
223	Glass Lined Reactor	D/RE-11	6.3 KL	MSGL
224	Glass Lined Reactor	D/RE-12	4.0 KL	MSGL
225	Glass Lined Reactor	D/RE-15	8.0 KL	MSGL
226	Glass Lined Reactor	D/RE-16	8.0 KL	MSGL
227	Agitated Nutsche Filter Drier	D/ANFD-03	2 m ²	SS 316
228	Isolator	D/IS-01	-	SS-316
229	Isolator Multi Mill	D/ISM-01	-	SS 316
230	Isolator Vibro Sifter	D/ISVSF-01	-	SS-316
231	Isolator VTD	D/ISVTD-01	-	SS 316
232	Vacuum Tray Dryer	D/VTD-04	140 Trays	SS-316
233	Pack-off Isolator	D/PIS-01	-	SS-316
234	Vacuum Tray Dryer	D/VTD-05	48 Trays	SS 316
235	Vacuum Tray Dryer	D/VTD-06	48 Trays	SS 316
236	Centrifuge	D/CF-01	36"	SS 316
237	Centrifuge	D/CF-02	36"	SS 316
238	Centrifuge	D/CF-04	36"	SS 316
239	Robo Filter	D/RF-01	600 X 600 mm	SS316
240	Sparkler Filter	D/SF-01	14" x 12 Plates	SS 316
241	Sparkler Filter	D/SF-03	14" x 12 Plates	SS 316
242	Ventilation	D/V-01	4000 CFM	-
243	Ventilation Exhaust	D/VE-01	4000 CFM	-
244	Ventilation	D/V-02	5000 CFM	-
245	Ventilation Exhaust	D/VE-02	5000 CFM	-
246	Ventilation	D/V-03	1500 CFM	-
247	Ventilation Exhaust	D/VE-03	1500 CFM	-
248	Static Pass box	D/SPB-01	-	SS 304
249	Air Handling Unit	D/AHU-01	10000 CFM	-
250	Air Handling Unit	D/AHU-02	2500 CFM	-
251	Dynamic Pass Box	D/DPB-01	-	SS 316
252	Dynamic Pass Box	D/DPB-02	-	SS 316
253	Air shower	D/AS-03	2 persons	GI powder coated
254	Air shower	D/AS-04	2 persons	GI powder coated
255	Air shower	D/AS-05	2 persons	GI powder coated

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S. No	Name of the Equipment	Equipment ID	Capacity	MOC
256	Air shower	D/AS-06	2 persons	GI powder coated
257	Pressure Module-1	D/PM-01	1759 CFM	-
258	Pressure Module-2	D/PM-02	800 CFM	-
259	Pressure Module-3	D/PM-03	1889 CFM	-
260	Pressure Module-4	D/PM-04	1038 CFM	-
261	Pressure Module-5	D/PM-05	1759 CFM	-
262	Pressure Module-6	D/PM-06	1759 CFM	-
263	Pressure Module-7	D/PM-07	1889 CFM	-
264	Pressure Module-8	D/PM-08	1889 CFM	-
265	Glove box	D/GB-01	--	SS316 L
266	Stainless Steel Reactor	E/RE-01	6.0 KL	SS-316
267	Stainless Steel Reactor	E/RE-02	2.0 KL	SS-316
268	Stainless Steel Reactor	E/RE-03	5.0 KL	SS-316
269	Stainless Steel Reactor	E/RE-04	5.0 KL	SS-316
270	Glass Lined Reactor	E/RE-06	5.0 KL	MSGL
271	Stainless Steel Reactor	E/RE-08	5.0 KL	SS-316
272	Glass Lined Reactor	E/RE-09	5.0 KL	MSGL
273	Stainless Steel Reactor	E/RE-10	5.0 KL	SS-316
274	Stainless Steel Reactor	E/RE-11	5.0 KL	SS-316
275	Stainless Steel Reactor	E/RE-12	3.0 KL	SS-316
276	Stainless Steel Reactor	E/RE-14	5.0 KL	SS-316
277	Glass Lined Reactor	E/RE-15	1.0 KL	MSGL
278	Glass Lined Reactor	E/RE-16	0.5 KL	MSGL
279	Stainless Steel Reactor	E/RE-17	0.25 KL	SS-316
280	Glass Lined Reactor	E/RE-18	0.25 KL	MSGL
281	Glass Lined Reactor	E/RE-19	3.0 KL	MSGL
282	Glass Lined Reactor	E/RE-20	5.0 KL	MSGL
283	Stainless Steel Reactor	E/RE-21	6.3 KL	SS-316
284	Centrifuge	E/CF-01	"48	SS-316
285	Centrifuge	E/CF-02	"48	HALAR Lined
286	Centrifuge	E/CF-03	"48	HALAR Lined
287	Centrifuge	E/CF-04	"48	SS-316
288	Centrifuge	E/CF-05	"48	SS-316
289	Centrifuge	E/CF-06	"24	SS-316
290	Centrifuge	E/CF-07	"48	SS-316 L
291	Centrifuge	E/CF-08	"48	SS-316 L

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S. No	Name of the Equipment	Equipment ID	Capacity	MOC
292	Centrifuge	E/CF-09	"48	SS-316 L
293	Centrifuge	E/CF-10	"48	SS-316 L
294	Spherical dryer	E/SD-01	2 KL	SS-316
295	Spherical dryer	E/SD-02	2 KL	SS-316
296	Pulverizer	E/PULV-01	200 to 300 Kg/Hr.	SS-316
297	Vacuum Tray Drier	E/VTD-01	12 Trays	SS-316
298	Vacuum Tray Drier	E/VTD-02	8 Trays	SS-316
299	Vibro Sifter	E/VSF-02	"30	SS-316
300	Vibro Sifter	E/VSF-03	"30	SS-316
301	Vibro Sifter	E/VSF-04	"24	SS-316
302	Multi Mill	E/MM-02	50 to 250 Kg/Hr	SS-316
303	Multi Mill	E/MM-03	500 to 750 Kg/hr	SS-316
304	Conical Mill	E/CM-01	400 to 1000 Kg/hr	SS-316
305	Tray Drier	E/TD-01	96 Trays	SS-316
306	Roto Cone Vacuum Drier	E/RCVD-01	1500 Lt	SS-316
307	Roto Cone Vacuum Drier	E/RCVD-04	2000 Lt	SS-316
308	Pressure Nutsche Filter	E/PNF-01	500 Lt	SS-316
309	Pressure Nutsche Filter	E/PNF-02	100 Lt	SS-316
310	Dynamic Pass Box	E/DPB-01	-	SS-304
311	Dynamic Pass Box	E/DPB-02	-	SS-304
312	Dynamic Pass Box	E/DPB-03	-	SS-304
313	Dynamic Pass Box	E/DPB-04	-	SS-304
314	Dynamic Pass Box	E/DPB-05	-	SS-304
315	Static Pass Box	E/SPB-02	-	SS304
316	Robo Filter	E/RF-01	600X600MM	SS-316
317	Leaf Filter	E/LF-01	250 Lt	SS-316
318	Leaf Filter	E/LF-02	250 Lt	SS-316
319	Sparker Filter	E/SF-04	14"X12 plates	SS-316
320	Sparker Filter	E/SF-05	14"X 9 plates	SS-316
321	Air Handling Unit	E/AHU-01	7800 CFM	-
322	Air Handling Unit	E/AHU-02	6400 CFM	-
323	Air Handling Unit	E/AHU-03	7700 CFM	-
324	Air Handling Unit	E/AHU-04	12000 CFM	-
325	Air Handling Unit	E/AHU-05	2500 CFM	-
326	Air Handling Unit	E/AHU-06	4738 CFM	-
327	Air Handling Unit	E/AHU-07	13500 CFM	-
328	Ventilation	E/V-01	15000 CFM	-
329	Exhaust	E/EX-01	2000 CFM	-

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S. No	Name of the Equipment	Equipment ID	Capacity	MOC
330	Exhaust	E/EX-02	2000 CFM	-
331	Exhaust	E/EX-03	500 CFM	-
332	Ventilation Unit	E/V-03	3000 CFM	-
333	Ventilation Exhaust	E/VE-03	3000 CFM	-
334	Ventilation Unit	E/V-04	2000 CFM	-
335	Ventilation Exhaust	E/VE-04	2000 CFM	-
336	Pressure Module	E/PM-12	2000 CFM	--
337	Pressure Module	E/PM-13	2000 CFM	--
338	Pressure Module	E/PM-14	2000 CFM	--
339	Pressure Module	E/PM-15	2000 CFM	--
340	Pressure Module	E/PM-16	2000 CFM	--
341	Pressure Module	E/PM-17	2000 CFM	--
342	Pressure Module	E/PM-18	2000 CFM	--
343	Stainless Steel Reactor	G/RE-01	3.0 KL	SS-316
344	Stainless Steel Reactor	G/RE-02	5.0 KL	SS-316
345	Stainless Steel Reactor	G/RE-03	5.0 KL	SS-316
346	Stainless Steel Reactor	G/RE-04	5.0 KL	SS-316
347	Stainless Steel Reactor	G/RE-05	5.0 KL	SS-316
348	Stainless Steel Reactor	G/RE-06	5.0 KL	SS-316
349	Stainless Steel Reactor	G/RE-07	3.0 KL	SS-316
350	Stainless Steel Reactor	G/RE-08	3.0 KL	SS-316
351	Stainless Steel Reactor	G/RE-13	6.3 KL	SS-316
352	Stainless Steel Reactor	G/RE-14	5.0 KL	SS-316
353	Tray Drier	G/TD-01	96 Trays	SS-316
354	Tray Drier	G/TD-02	96 Trays	SS-316
355	Centrifuge	G/CF-01	48"	SS-316
356	Centrifuge	G/CF-02	48"	SS-316
357	Centrifuge	G/CF-03	48"	SS-316
358	Stainless Steel Reactor	H/RE-01	0.75 KL	SS316
359	Stainless Steel Reactor	H/RE-02	0.75 KL	SS316
360	Stainless Steel Reactor	H/RE-03	1.60 KL	SS316
361	Stainless Steel Reactor	H/RE-04	1.60 KL	SS316
362	Stainless Steel Reactor	H/RE-05	0.75 KL	SS316
363	Glass Lined Reactor	H/RE-06	0.63 KL	MSGL
364	Stainless Steel Reactor	H/RE-07	0.25 KL	SS316
365	Glass Lined Reactor	H/RE-08	2.0 KL	MSGL
366	Glass Lined Reactor	H/RE-09	0.16 KL	MSGL
367	Glass Lined Reactor	H/RE-10	1.60 KL	MSGL
368	Glass Lined Reactor	H/RE-11	0.63 KL	MSGL

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S. No	Name of the Equipment	Equipment ID	Capacity	MOC
369	Glass Lined Reactor	H/RE-12	1.60 KL	MSGSL
370	Glass Lined Reactor	H/RE-13	0.16 KL	MSGSL
371	Stainless Steel Reactor	H/RE-17	1.0 KL	SS 316 L
372	Glass Lined Reactor	H/RE-18	1.6 KL	MSGSL
373	Stainless Steel Reactor	H/RE-19	1.0 KL	SS 304
374	Hydrogenator	H/HY-01	0.25KL	SS316 L
375	Hydrogenator	H/HY-02	1 KL	SS316 L
376	Pressure Nutsche Filter	H/PNF-01	50 L	SS316
377	Isolator	H/IS-01	-	SS316
378	Pack-off Isolator	H/PIS-01	-	SS316
379	Roto Cone Vacuum Drier	H/ISVTD-01	-	SS316
380	Isolator Multi Mill	H/ISMM-01	-	SS316
381	Isolator Vibro Sifter	H/ISVSF-01	-	SS316
382	Vacuum Tray Drier	H/VTD-01	24 Trays	SS316
383	Vacuum Tray Drier	H/VTD-02	24 Trays	SS316
384	Vacuum Tray Drier	H/VTD-03	12 Trays	SS316
385	Vacuum Tray Drier	H/VTD-04	12 Trays	SS316
386	Isolator VTD	H/VTD-05	84 Trays	SS316
387	Vacuum Tray Drier	H/VTD-06	48 Trays	SS316
388	SS Centrifuge	H/CF-01	36" Dia	SS316
389	SS Centrifuge	H/CF-02	20" Dia	SS316
390	SS Centrifuge	H/CF-04	48" Dia	SS316
391	SS Centrifuge	H/CF-05	36" Dia	SS316
392	Centrifuge	H/CF-06	48"	SS316
393	Robo Filter	H/RF-01	600 mm x 600 mm	SS316
394	Robo Filter	H/RF-02	750 mm x 750 mm	SS316
395	Robo Filter	H/RF-03	750 mm x 750 mm	SS316
396	Robo Filter	H/RF-04	750 mm x 750 mm	SS316
397	Sparkler Filter	H/SF-01	14" x 12 Plates	SS316
398	Sparkler Filter	H/SF-02	14" x 12 Plates	SS316
399	Sparkler Filter	H/SF-03	14" x 12 Plates	SS316
400	Sparkler Filter	H/SF-04	8" x 10 Plates	SS316
401	Air Shower	H/AS-01	-	GIPC
402	Air Shower	H/AS-02	-	GIPC
403	Air Shower	H/AS-03	-	GIPC
404	Air Shower	H/AS-04	-	GIPC
405	Air Shower	H/AS-05	--	GIPC
406	Air Shower	H/AS-06	--	GIPC
407	Air Handling Unit	H/AHU-01	9000 CFM	-

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S. No	Name of the Equipment	Equipment ID	Capacity	MOC
408	Air Handling Unit	H/AHU-02	2500 CFM	-
409	Ventilation Unit	H/V-01	4000 CFM	-
410	Ventilation Unit	H/V-02	6000 CFM	-
411	Ventilation Exhaust Unit	H/VE-01	4000 CFM	-
412	Ventilation Exhaust Unit	H/VE-02	6000 CFM	-
413	Ventilation Unit	H/V-03	3000 CFM	--
414	Dynamic Pass Box	H/DPB-02	-	SS304
415	Dynamic Pass Box	H/DPB-03	-	SS304
416	Dynamic Pass Box	H/DPB-04	--	SS 304
417	SS Column	H/SSC-01	-	SS316
418	SS Column	H/SSC-02	-	SS316
419	Centrifuge charging glove box	H/GB-01	--	SS316 L
420	Reactor charging glove box	H/GB-02	--	SS316 L
421	VTD charging glove box	H/GB-03	--	SS316 L
422	VTD charging glove box	H/GB-04	--	SS316
423	Centrifuge charging glove box	H/GB-05	--	SS316
424	VTD charging glove box	H/GB-06	--	SS316
425	VTD charging glove box	H/GB-07	--	SS316L
426	VTD charging glove box	H/GB-08	--	SS316L
427	Glass lined reactor	I/RE-01	0.10 KL	MSGL
428	Glass lined reactor	I/RE-03	0.16 KL	MSGL
429	Glass lined reactor	I/RE-05	1.60 KL	MSGL
430	Glass lined reactor	I/RE-07	0.50 KL	MSGL
431	Glass lined reactor	I/RE-09	0.10 KL	MSGL
432	Glass lined reactor	I/RE-10	0.50 KL	MSGL
433	Glass lined reactor	I/RE-11	0.50 KL	MSGL
434	Glass lined reactor	I/RE-12	0.10 KL	MSGL
435	Stainless steel reactor	I/RE-13	0.10 KL	SS316
436	Glass lined reactor	I/RE-17	1.60 KL	MSGL
437	Glass lined reactor	I/RE-18	0.50 KL	MSGL
438	Glass lined reactor	I/RE-19	0.16 KL	MSGL
439	All Glass Reactor	I/RE-20	10 L	All Glass
440	Rotary evaporator	I/RTV-01	50 L	All Glass
441	Pack-off Isolator	I/PIS-01	-	SS316
442	Isolator	I/IS-01	-	SS316
443	Isolator Nutsche Filter	I/ISNF-01	50 L	SS316
444	Isolator VTD	I/ISVTD-01	12 Tray	SS316
445	Isolator Multi Mill	I/ISM-01	-	SS316
446	Isolator Vibro Sifter	I/ISVSF-01	-	SS316

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S. No	Name of the Equipment	Equipment ID	Capacity	MOC
447	Vacuum tray drier	I/VTD-01	12 Trays	SS316
448	Vacuum tray drier	I/VTD-02	12 Trays	SS316
449	Vacuum tray drier	I/VTD-03	12 Trays	SS316
450	Vacuum tray drier	I/VTD-04	48 Trays	SS316
451	Robo-filter	I/RF-02	600 x 600 mm	SS316
452	Robo-filter	I/RF-04	600 x 600 mm	SS316
453	Sparkler Filter	I/SF-01	14" x 12 Plates	SS316
454	Sparkler Filter	I/SF-02	8" x 10 Plates	SS316
455	Air Handling Unit	I/AHU-01	9000 CFM	-
456	Air Handling Unit	I/AHU-02	2500 CFM	-
457	Ventilation	I/V-01	4000 CFM	-
458	Ventilation	I/V-02	6000 CFM	-
459	Ventilation Exhaust	I/VE-01	4000 CFM	-
460	Ventilation Exhaust	I/VE-02	6000 CFM	-
461	Static Pass Box	I/SPB-01	-	SS304
462	Dynamic Pass Box	I/DPB-02	-	SS304
463	Dynamic Pass Box	I/DPB-03	-	SS304
464	Air Shower	I/AS-01	-	GIPC
465	Air Shower	I/AS-02	-	GIPC
466	Air Shower	I/AS-03	-	GIPC
467	Air Shower	I/AS-04	-	GIPC
468	Centrifuge	I/CF-01	20"	SS 316
469	Centrifuge	I/CF-02	36"	SS 316
470	Centrifuge	I/CF-04	36"	SS 316
471	Pressure Module	I/PM-01	500 CFM	-
472	Pressure Module	I/PM-02	1881 CFM	-
473	Pressure Module	I/PM-03	1881 CFM	-
474	Pressure Module	I/PM-04	1881 CFM	-
475	Pressure Module	I/PM-05	507 CFM	-
476	Pressure Module	I/PM-06	1705 CFM	-
477	Pressure Module	I/PM-07	1705 CFM	-
478	Pressure Module	I/PM-08	1705 CFM	-
479	Pressure Module	I/PM-09	1705 CFM	-
480	Pressure Module	I/PM-10	1705 CFM	-
481	De-contamination Tank	I/DCT-01	0.50 KL	SS304
482	Glove Box	I/GB-01	--	SS316
483	Glove Box	I/GB-02	--	SS316
484	Horizontal Freezer-20°C	PRT/HF/001		NA
485	Vertical Freezer-40°C	PRT/VF/001		NA

SHILPA PHARMA LIFESCIENCES LIMITED, UNIT-2Plot Nos. 33, 33A, 40 to 47, Raichur Industrial Growth Centre, Wadloor Road, Chicksugur-584134,
District: Raichur, Karnataka, India.**BUSINESS CONTINUITY PLAN**

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S. No	Name of the Equipment	Equipment ID	Capacity	MOC
486	Vertical Freezer-40°C	PRT/VF/002		NA
487	Glass Reactor-500mL	PRT/GR 500mL/001	500mL	Glass
488	Glass Reactor-500mL	PRT/GR 500mL/002	500mL	Glass
489	Glass Reactor-	PRT/GR 2L/001	2L	Glass
490	Glass Reactor-	PRT/GR 2L/002	2L	Glass
491	SS Pressure Reactor	PRT/SSR - 5L/001	5L	SS
492	SS Pressure Reactor	PRT/SSR - 2L/001	2L	SS
493	SS Pressure Reactor	PRT/SSR - 2L/002	2L	SS
494	SS Pressure Reactor	PRT/SSR - 25L/001	25L	SS
495	Vacuum Tray Drier	PRT/VTD/001	20L	SS
496	Vacuum Tray Drier	PRT/VTD/002		SS
497	Vacuum Tray Drier	PRT/VTD/003		SS
498	Vacuum Tray Drier	PRT/VTD/004		SS
499	Vacuum Tray Drier	PRT/VTD/005		SS
500	ICE Making Machine	PRT/ICE/001	NA	NA
501	Lyophilizer	PRT/LYO/001	NA	NA
502	Rotary Evaporator 20L	PRT/ROT 20/001	20L	NA
503	Rotary Evaporator Bench Scale	PRT/ROT-B/001	2L	NA
504	Rotary Evaporator Bench Scale	PRT/ROT-B/002	2L	NA
505	Rotary Evaporator Bench Scale	PRT/ROT-B/003	2L	NA
506	Rotary Evaporator Bench Scale	PRT/ROT-B/004	2L	NA
507	Rotary Evaporator Bench Scale	PRT/ROT-B/005	2L	NA
508	Rotary Evaporator Bench Scale	PRT/ROT-B/006	2L	NA
509	Glass Drying oven	PRT/GDO/001	NA	NA
510	Glass Drying oven	PRT/GDO/002	NA	NA
511	Huber	PRT/HUB/001	NA	NA
512	Huber	PRT/HUB/002	NA	NA
513	Bottle Lyophilizer	Peptide Lab	NA	Glass
514	Tray Lyophilizer	Peptide Lab	NA	SS316
515	Prep-HPLC System 1000ml/Min, Make:Hanbon	Peptide Lab	NA	NA
516	PREP-HPLC system 300ML/MIN, Make:Hanbon	Peptide Lab	NA	NA

SHILPA PHARMA LIFESCIENCES LIMITED, UNIT-2Plot Nos. 33, 33A, 40 to 47, Raichur Industrial Growth Centre, Wadloor Road, Chicksugur-584134,
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S. No	Name of the Equipment	Equipment ID	Capacity	MOC
517	Biorad Purification system 100ml/Min	Peptide Lab	NA	NA
518	UV Spectrophotometer	Peptide Lab	NA	NA
519	RO System ARIUM@PRO VF	Peptide Lab	NA	NA
520	Analytical HPLC	Peptide Lab	NA	NA
521	Analytical HPLC	Peptide Lab	NA	NA
522	Analytical HPLC	Peptide Lab	NA	NA
523	UPLC	Peptide Lab	NA	NA
524	Centrifuge	Peptide Lab	NA	SS316L
525	Tray Dryer	Peptide Lab	NA	SS316L
526	Deep freezer	Peptide Lab	NA	SS316L

Appendix 3-Related Documents

The following Documents may be required to ensure continuity and/or recovery of service.

Title
On site Emergency Plan

Revision History:

S. No	Revision	Details of Revision	Remarks
01	00	1. First issue	--
02	01	1. Critical equipments list is replaced with blocks process equipments list. 2. Polymer lab equipments list added. 3. Annexure-1 contact personnel list updated in-line to current employees.	--
03	02	1. Name of the organization updated and company logo removed inline to current organizational changes. 2. Peptide lab equipments list added 3. Annexure-1 contact personnel list updated in-line to current employees.	--