OCCUPATIONAL SAFETY AND HEALTH AUDIT - IS14489

2021

LUPIN

M/s. LUPIN LIMITED

PLOT NO. 130,
JNPC, PARAWADA,
VISAKHAPATANAM – 531019

PROACT SAFETY

Prepared by
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INDEX

FOREWORD

1. INTRODUCTION:

Growth of Industrial sector is a clear indicator of growth of Nation. The progress of a country depends directly up on the development of its Industry such as Power Generation, Petrochemical, Pharmaceutical, Chemical, Heavy chemical, Fertilizers, Pesticides, and Heavy Engineering etc.

Rapid industrialization policy of the government has been responsible for the tremendous growth witnessed in starting of different types of industries. While the industries have brought in newer technologies they have also proved to possess a variety of hazards which can lead to accidents and results in loss of resources like men, material, machinery and money.

With the liberalization of the economy every industry has to be competitive in the international scene. In order to achieve this every management has to be keenly concerned in optimizing their resources. In this effort they will have to minimize or eliminate all kinds of losses.

Losses can be minimized by adopting improved technology, good engineering design and standards and above all adopting safe processes and operational practices.

Like these Chemical Industries Safety has an important and vital role. Safety which starts on humanitarian principle has transformed itself into an engineering science over the years. Today many methods are available through which the hazards could be identified and quantified and measures for reduction risk could be advised.

M/s. LUPIN LIMITED, located at PLOT NO.: 130, JNPC, Parawada, Visakhapatnam, Andhra Pradesh, India, has decided to carry out a study of Occupational Safety & Health systems of their factory by an independent agency the OS&H Audit as per IS-14489. Accordingly, the job was entrusted to PROACTIONEERING CONSULTANTS-SAFETY RAJAHMUNDRY.

In order to

A) identify the current status on Occupational Safety and Health.

B) Prepare the status report and.

C) Identify further improvement plans to bring the plant to the required expectation of the company management, The company has entrusted the assignment of Occupational

Safety and Health Audit for their Plant to PROACTIONEERING CONSULTANTS-SAFETY In connection with this, Audit team with 4 nos Auditors from required disciplines visited the plant on date 14 Jul, 2021 and studied the plant and plant facilities. This Safety Audit report has been prepared based on code of practices for Safety Audit. IS-14489 – 1998. This Safety Audit report spells out recommendations, which the factory management should use as a reference for developing their own policies and guidelines for continual improvement of safe operation of its facilities. Upgrading existing safety systems facilities to comply with these recommendations and also, they may make more stringent company safety rules on the basis of their experience and of legal requirements in their area of operations. The Unit Head Mr Abhijeet V Shinde is the main person who have initiated necessary actions and their Team has provided all necessary information and facilities to carry out the Safety Audit.

We also appreciate the efforts made by all senior staff of the company for full co-ordination and co-operation with us during fieldwork at site collection and correlation of the input data requiring this report. All the management staff has extended their co-operation in all aspects of Safety Audit especially at the time of their personal interviews held, the Auditor acknowledged thanks to the management.

Date: 14-07-2021
Visakhapatnam

Ravindra Balagam
PROACTIONEERING CONSULTANTS-SAFETY.

2. ABBREVATIONS

LPL	LUPIN LIMITED
APPCB	Andhra Pradesh Pollution Control Board
APEPDCL	Andhra Pradesh Electricity Power Distribution Company Limited
API	Active Pharma Ingredients
CCE	Chief Controller of Explosives
COD	Chemical Oxygen Demand
DCP	Dry Chemical Powder
DG	Diesel Generator
DM	De-mineralized water
EPA	Environment Protection Act
FA	The Factories Act 1948
FBC	Fluidized Bed Combustion
FRP	Fiber Reinforced Plastic
HAZOP	Hazard And Operability Study
HARA	Hazard Analysis & Risk Assessment
HR	Human Resources
IE	Indian Electricity
I S	Indian Standard 14489 -1998.
ISO	International Organization for Standards
KL	Kilo Litres
KV	Kilo Volt
KVA	Kilo Volt Ampere
LP	Low Pressure
LPG	Liquefied Petroleum Gas

MAH	Major Accident Hazard
MP	Medium Pressure
MSDS	Material Safety Data Sheet
MSIHC	Manufacturing, Storage & Import of Hazardous Chemicals
NOC	No Objection Certificate
OS&H	Occupational Safety and Health
OHC	Occupational Health Centre
PB	Production Block
PCC	Power Control Centre
PESO	Petroleum & Explosive Safety Organization
PLC	Programmable Logic Controls
PPE	Personal Protective Equipment
PROACT	Proactioneering Consultants Safety
PRV	Pressure Relief Valve
SMPV	Static & Mobile Pressure Vessel Rules
ETP	Effluent Treatment Plant
TDS	Total Dissolved Solids
TAC	Tariff Advisory Committee
UPS	Uninterrupted Power Supply
VAM	Vapour Absorption Machine

AUDIT REPORT DETAILS

Safety Auditor from PROACTIONEERING CONSULTANTS-SAFETY

Auditors and their Profiles

B. SIVA RAMAKRISHNA	Experience: 25 years Qualification: M Sc Chemistry Employers: BIOCON Ltd, ACACIA LIFE SCIENCES P Ltd, YM DRUGS PVT LTD, KREBS BIOCHEMICALS AND INDUSTRIES LTD, BASTION LABS LTD, PHARMASIA LTD, SUMITRA PHARMA & CHEMICALS LTD (Presently NICHOLAS PYRAMIL LTD ZAHEERABAD), INORGANICS INDIA LTD, Dr REDDY LABS Skills: Production Planning & Control • Operations Management • Design and Developments • Technical Services • Process Optimization • Safety • Troubleshooting • Cross-functional Coordination • Analytical Skills • Leadership Skills • Process Improvement
B Ravindra	Experience: 21 years Qualification: B Tech Mechanical Engg Employers: PROACT SAFETY Consultants Skills: Project Management • Operations Management • Design and Developments • Technical Services • Safety • Troubleshooting • Cross-functional Coordination ISO 45001 Lead Auditor – Occupational Safety & Health Approved Competent Person under as per TS & AP Factories Rules,

	ASNT Level-II certification in MT, PT, UT Formerly Competent Person under (DGFASLI) the provisions of Dock Workers (Safety, Health and Welfare) Regulations, 1990. Certified for Fall protection and equipment inspection, works at height by DBI SALA, Singapore Certified Trainer program for DROPS by DROPS, UK Certified for Cargo Handling / Material Handling by Lloyds Occupational Safety Course by RLI, Chennai Equipment integration and proficiency training – BIS
U Murali Krishna	Experience: 25 years Qualification: Diploma in Electrical and Electronics engineering in year 1992 Employers: GE(India), HAVELLS, UNEECO (Kingdom of Bahrain)- System integrator for SCHNEIDER-France, DIPLOMAT SWITCH GEAR (QATAR)-System integrator for L&T(India)&Eaton (U.S.A), AL GANDHI SWITCH GEAR (ABUDHABI, UAE) System integrator for TERASAKI-Japan Skills: Design Engineering • Turnkey and Partial turnkey Substation & Transmission line projects execution up to 132KV Voltage level. • Industrial electrification projects on turnkey basis. • Erection & commissioning. • Electrical drawings & Electrical inspectorate approvals. • Electrical Load calculations. • Electrical Equipment Sizing calculations. • Earthing Design calculations. • Power & Control cable sizing calculations. • Cable routing design. • Cable tray sizing and routing. • Plant Internal and External illumination calculations.

	Training at L&T Ooty, Pune, Mysore training centers on maintenance and troubleshooting on ACB, MCCB, CONTACTOR AND RELAY PROGRAMMINGS and in Mehar L&T division on capacitors for power factor improvement.
K A Vijay Kumar	Experience: 9 years Qualification: M. Planning (Env) & P.G. Diploma In urban planning & development, Employers: POISE DESIGNS Consultants Professor (C) in The Department of Architecture, Andhra university, Visakhapatnam Skills: Project Management • Operations Management • Design and Developments • Technical Services • Safety Management •Environmental Management, •Landscape Designer Membership: Associate Member of IIID, Registered Architect Under VMRDA & GVMC, Registered Architect Under COA, Government of India Certificate course on The Emergence of Green Building Practice and Its Impacts On Environmental Concerns Training on External Events, Disaster Risk Reduction and Management Certificate Course on High Performance Buildings Certificate course in Fire Safety & Construction Safety

Co-ordination from LUPIN :Mr Abhijeet V Shinde, Unit Head, GM Manufacturing
Mr Narayana Rao T - Manager, EHS

Validation : One year (till 13-Jul-2022)

Auditors	Mr. Sivarama Krishna B	Lead Auditor	
	Mr Ravindra Balagam	Co-Auditor	
Auditees (Client Representatives)	Abhijeet Shinde	Unit Head.	-
	T. Narayana Rao	Manager-EHS	
	Rajesh Thete.	Unit Head.	06/10/2021
Validity	One Year		

INTRODUCTION

3. SHORT DESCRIPTION OF PLANT:

M/s. LUPIN LIMITED, has started their production at Visakhapatnam from year 2016 "A SAFE WORK PLACE LEADS TO A BETTER HOME" is the guiding force at LUPIN LIMITED. Success of LUPIN LIMITED lies in providing a safe working atmosphere to one and all at the work place. The management believes and strives to protect the health of the employees and also protect the Environment and its surroundings. In spite of the safe conditions and laid down standard operating procedures, various factors could lead to an unforeseen situation resulting in an emergency. Prompt and efficient action is required to control the situation and minimize the loss. On-site emergency plan is primarily prepared to take stock of the situation and take suitable action to cope up with the emergency, which may arise during any time of the Day or Night. This On-site emergency plan has been prepared taking into consideration the plant size, Processes, Hazardous chemicals, Hazardous operations, the available personnel and Facilities. Effective implementation of the plan lies in every individual doing his specific job and coordinating with others as per the plan Incident and emergency prevention measures in the unit include the following: The plant has been installed after considering good design and provisions of statute. Competent persons are recruited and current good manufacturing practices are adopted. Work on site is controlled by issue of work permits with due precautions listed after work site inspection, personal protective equipment is issued. This plan document is intended to define the roles and response actions of controllers, coordinators & emergency response team (ERT) personnel to ensure effective containment, control and mitigation of emergency by training and periodic mock drills. Major plant facilities: Manufacturing blocks: Reactors, receivers, condensers, pumps and day tanks, scrubbers, filters, dryers, ejectors, sifters, multi-mill, micronizer, isolators and spray dryer etc. Solvent recovery block Engineering services: Transformers, PCCs, MCCs, diesel generator sets, boilers, cooling towers, chilled water compressor, brine Compressor, water treatment plants, air / nitrogen compressors etc…

Warehouse: Chemicals, petroleum solvents tank farm, non-petroleum storage tank farm, barrels storage sheds, engineering materials store and finished goods. Laboratories: Process Development and Quality Control laboratories Primary effluent treatment plant (ETP) and hazardous waste storage yard

The basic processes involved in the production of various products are as follows::

1. Raw materials unloading, storing and issue to production blocks

2. Charging of Raw materials to Reactors.

3. Reaction – Endothermic and exothermic reactions. Reactions are carried out at atmospheric pressure or under pressure.

4. Operations in the range of -20 deg C to 140 deg C are only carried out in the facility

5. Steam is the heating medium which is available at 7 kg/cm2 for steam jet ejectors, 3 and 1.5 kg/cm2 for reaction and solvent recovery.

6. Cooling Tower Water, Chilled water at 10 deg C from Centrifugal compressor , Chilled brine of -10 and -25 deg C from Brine Chilling plant are the cooling medium

7. Distillation – Distillation is used for separation for purification of volatile organic compounds, separation of solvents from reaction mixture or mother liquour. Distillation is carried out under atmospheric conditions or vacuum,

8. Condensation – Condensation of vapors with cooling water / chilled water/ chilled brine are used during reaction, dehydration or solvent recovery

9. Crystallization – Crystallization is used for purification of solid product

10. Filtration – Filtration is used for separation of solids product/impurity from slurry/ crystallization mother liquor.

11. Drying, milling and sieving operations are used for finished product

Salient particulars of the company are as follows:

1.	**Name of Organization**	M/s. Lupin Limited (AAHL)
2.	**Address**	Plot No: 130, JNPC, Parawada, Visakhapatanam Andhra Pradesh – 531019.
3.	**Phone Number**	Works:
4.	**Name of the Occupier**	Sri. Ramesh Swaminathan
5.	**Address of the Occupier**	701, Era III, Marathan Next Gen, Peninsula Corporate, GK Marg, Lower Parel, Mumbai
7.	**Name of the Plant Manager**	Sri. Abhijeet V Shinde
9.	➢ **Police station** ➢ **Nearest Fire Station** ➢ **Nearest Hospital**	Parawada RPCIL-JNPC & Anakapalli RPCIL-JNPC, Parawada, Lankelapalem
10.	**Manufacturing Process**	Manufacture of Active Pharmaceutical ingredients and intermediates for generics.
11.	**The Plant Area is surrounded by other major industries like:**	East – Vacant Land West – Vacant Land North – Vacant Land South – Laurus Unit-III

Plant premises is of 27.7 Acres area surrounding by Industries in JNPC

Name of the Occupier:
Sri. Ramesh Swaminathan

Name of the Factory Manager:
Sri. Abhijeet V Shinde

Name of the Safety Manager
Sri. T Narayana Rao - Manager, EHS

4.AUDIT SUMMARY

Occupational Safety and Health Audit program for the year 2021 is planned by the Management of M/s. LUPIN LIMITED, The industry is into the manufacture of Active Pharmaceutical Ingredients and its intermediates and assigned the OS&H Audit to PROACTIONEERING CONSULTANTS-SAFETY. The Audit and plant safety study conducted during the month of Jul 2021 and conducted a Systematic Examination of the Facilities. Audit opening meeting conducted in this meeting explained about Occupational Safety and Health Audit, Audit Standards, Objectives of the Audit, Audit methodology, Audit the plant Safety systems and procedures, and HOD meetings during plant visits. Opening Meeting conducted on date 14-07-2021 the list of participants attended is enclosed

The Audit team visited total plant department wise for Safety study. Safety observations of the plant Safety study in detail are presented in this report. Records verification pertaining to Occupational Safety and Health conducted. Detailed discussions were held on safety audit observations and recommendations in the Audit closing meeting.

5. SCOPE AND OBJECTIVE OF AUDIT:

This report presents the findings and recommendations of the Safety Audit carried out at all sections of the factory.

This audit is as per the requirement of the manufacture, storage and import of hazardous chemicals (MSIHC) rules 1989 -10 Safety reports,

External Safety Audit as per the rule 12-B of AP factories Rules 1950

This Audit is intended to identify to the Management as per the IS 14489 and the activity base and to advise whether they have been correctly assessed and appropriate steps to be taken to prevent hazards and minimize their effects.

This Audit Aim is to promote contact with individual departments as manifestation of management's interest, awareness and concern to gain their involvement, to encourage suggestions relating to Safety and Occupational Health and entire co-operation.

PLANTS VISITS:

During plant visits the Audit team have visited all plant's facilities, departments and factory areas. Manager – EHS Dept, Manager - Engineering and other Plant area staff accompanied with the audit team.

6. PLANT FACILITIES/ DEPARTMENTS:

1, Admin & QC
2, Power Room
3, Fire Hydrant Room
4, MPP-1, MPP-2
5, Boiler House
6, Hydrogenation Block
7, Oncology Block (inoperative)
8, Utility Block
9, Warehouse
10, Tank farm area (CCOE & Non-CCOE)
11, Engineering Store / Workshop
12, EHS / ECC / OHC
13, Staff Canteen / Contractor Canteen

EMPLOYMENT – Man Power (Regular) Department wise

On Rolls –	220
Contractual –	230
Total manpower –	450

SHIFT TIMINGS

A Shift	06.00 A.M.	to	02.00 P.M.
General Shift	09.00 A.M.	to	05.45 P.M.
B Shift	02.00 P.M.	to	10.00 P.M.
C Shift	10.00 P.M.	to	06.00 A.M.

SITE ORGANIZATION CHART is enclosed in the annexure.

7. The following **elements of OS&H systems** in the factory are checked during occupational safety and health Audit,

A-1 OH & S Management Elements

Sl	Elements	Remarks
a	OH & S Policy	Available in English and Telugu
b	OH & S organizational set-up	Established
c	Safety manual	Available
d	Standard Operating Procedures (SOP)	Available
e	Plant modification procedure	Available
f	Work permit system	Established
g	Contractors' safety system	Available
h	Plant design and layout	Available
i	Medical management of accidents	Available
j	Management of emergencies (natural / man-made)	Available
k	Employee selection and placement	Available in HR policies
l	Safety culture	In practice
m	Statutory licenses, approvals and records	Available
n	Motivational and promotional measures for OH & S	Available
o	Hazard identification and job safety analysis	Available
p	Product safety	Available
q	Safety training	Available
r	Change management	Available

A-2 Physical Hazard Elements

a	Housekeeping	In practice
b	Machine and general area guarding	In practice
c	Material handling	In practice
d	Electrical safeguarding	In practice
e	Safety in storage and warehousing	In practice
f	Hazard assessment of new equipment	In practice
g	Hazards from radiation sources	Not applicable

h	Control measures for specialized industrial hazards like work at height and work in confined space	In practice

A-3 Chemical Hazard Elements

a	Transportation of hazardous substances	In practice
b	Handling of hazardous substances	In practice
c	Storage of hazardous substances	In practice
d	Spill control measures	In practice
e	Material Safety Data Sheet (MSDS)	Available
f	Gas cylinders	Available
g	Labeling and colour coding	In practice
h	Hazardous waste management	In practice

A-4 Fire and Explosion Hazard elements

a	Organisational setup for fire fighting	SHE department handling
b	Built in safety in civil design and construction	In practice
c	Built in Safety in Electric Circuits and Equipment	In practice
d	Explosive substances	Not applicable
e	Fire safety in handling flammable and ex-plosive materials	In practice
f	Fire detection and alarm system	In practice
g	Passive and active fire protection system	In practice
h	Fixed fire extinguishing system	Available
i	Portable Fire Extinguishing System	Available
j	Fire fighting equipment and facilities	Available

k	Fire drill	In practice
l	Fire fighting training	Available
m	Static electricity and lightning	Available

A-5 Industrial Hygiene / Occupational Health Elements

a	Vibration, heat stress, Non-ionizing radiations, ventilation, illumination and noise	In practice
b	Work place monitoring for hazardous chemicals	In practice
c	First aid facilities and occupational health centre (OHC)	Established
d	Periodic medical examination	In practice
e	Personal protective equipment and emergency equipment	Available
f	Occupational disease	Monitoring in practice

A-6 Accident / Incident reporting, Investigation and Analysis

a	Accident reporting,	In practice
b	Accident investigation	In practice
c	Analysis of accidents	In practice
d	Implementation of recommendations	In practice
e	Reporting and investigation of near - miss incidents	In practice

A-7 Emergency Preparedness (On-site / Off site)

a	Site specific details	Available
b	Duties and responsibilities of key personnel	Available

c	Identification of emergencies and accident scenario	In practice
d	Declaration and termination of emergency	In practice
e	Resources-evacuation / transport	Available
f	Communication facilities	Available
g	Medical care	Available
h	Updation of emergency plan	In practice
i	Periodic drills / exercises	In practice
j	Training of plant personnel	In practice
k	Public awareness programmes	In practice
l	Mutual-aid programme	In practice
m	Emergency control centre	Available

A-8 Safety Inspection elements

a	Inspection programme	In practice
b	Safety Related Deficiency (SRD) Report	To be established
c	Safety inspection records	Available
d	Methodology and inspection team	Available
e	Compliance of recommendations	Available

8. TYPES OF RECORDS EXAMINED DURING THE SAFETY AUDIT

Sl	Records	Remarks
a)	OH & S policy;	Examined
b)	Safety organization chart;	Examined
c)	Training records on safety fire and first-aid;	Examined
d)	Record of plant safety inspections;	Examined
e)	Accident investigation reports;	Examined
f)	Accidents, dangerous occurrences and near miss incidents - statistics and analysis;	Examined
g)	Record of tests and examinations of equipment and structures as per statutes;	Examined
h)	Standard Operating Procedures (SOP) for various operations;	Examined
i)	Record of work permits;	Examined
j)	Record of work environment monitoring (flammable, toxic and explosive substances);	Examined
k)	Maintenance, testing and calibration records of fire detection and fire fighting equipment;	Examined
l)	Medical records of employees;	Examined
m)	Records of industrial hygiene surveys (noise, ventilation, illumination, dust etc.);	Examined
n)	Material Safety Data Sheets (MSDS);	Examined
o)	On-site emergency plans and record of Mock Drills;	Examined
p)	Records of storage of hazardous solid waste and its disposal;	Examined
q)	Records of gaseous emissions and effluent discharges to the environment;	Examined
r)	Housekeeping inspection records;	Examined
s)	Minutes of safety committee meetings;	Examined

t)	Statutory licenses and approvals;	Examined
u)	Records of any modifications carried out in plant or process;	Examined
v)	Maintenance procedure and records;	Examined
w)	Instrumentation and equipment calibration and testing records;	Examined
x)	Planned shutdown maintenance procedures;	Examined
y)	In service inspection manuals, records including that of material handling;	Examined
z)	OH & S budget;	Examined
aa)	Inspection books and other statutory records;	Examined
bb)	Records of previous audits and safety analysis;	Examined
Ab)	Procedures for safe transportation of hazardous substances;	Examined
Ac)	Calibration records	Examined
Ad)	Records for break down of plants during the process of manf	Examined
Ae)	Records for waste material generated and their disposal;	Examined
Af)	SOP for disposal of waste materials; and	Examined
Ag)	Records for issue of PPE items to the personnel working in process building.	Examined

9. SYSTEMATIC OBJECTIVE & DOCUMENTED EVALUATION OF OCCUPATIONAL SAFETY AND HEALTH SYSTEM

SAFETY AUDIT POINTS	STATUS.
Health and Safety Policy	
1. Does the organization has a health and safety policy?	Safety Policy is provided, enclosed the copy
(If yes, please attach one copy)	
2. Do you have any corporate safety policy?	Yes, The Policy is provided on corporate safety
(If yes, please attach one copy)	
3. Who has signed the health safety policy? (indicate his position)	Managing Director
4. Whether it is prepared as per guidelines of the statutory provisions?	Yes
5. When was the safety policy declared and adopted?	09-July-2019
6. How many times it has been updated till now?	Suggestion for mentioning the revision number on the Policy
7. Whether the policy is made know to all?	Yes
8. Whether the safety policy was scrutinized by outside expert agency?	No
9. What was the last date of updation?	09-07-2019
10. Does it find a place in the annual report?	Yes, provided
Safety & Health Organization	
A) Safety Department	
11. Does the factory has a safety department?	Safety department is established in the factory.

12. If yes, furnish the following information:	
i) Head of the safety department:	
a) Name	Mr T Narayana Rao
b) Designation	Manager – EHS
c) Qualification	Diploma in Industrial Safety (SBTET)
d) Experience	13 Years
e) Status	Management
ii) Strength of the safety department including safety officers and staff	Staff: 3 safety officers and one FMO, 10 contract workmen.
13. Does the head of safety department/safety officer report to the Chief Executive?	Reporting to Sr. GM corporate EHS and Site head.
14. How often are the safety officers retrained in the latest techniques of total safety management? What is the frequency of retraining?	Periodically as per training calendar
15. What additional duties the safety officer is required to do?	No other duties than Safety.
16. What is the power of safety officer vis-a-vis unsafe condition or unsafe act?	To intervene and stop the job in case of unsafe action unsafe conditions. Train the teams in safety aspects
B) Safety Committee(s)	
17. Does the factory has a safety committee(s)? Give details of their types, structures and terms of reference.	Safety Committee is existing
18. Is the tenure of the safety committee(s) as per the statute?	Two years

19. How are the members of safety committee(s) selected? (elected/nominated)	As per statutory with Management and workmen representatives
20. How often are the meetings of safety committee(s) held?	Once in three months
21. What are the subjects? Are the problems discussed in the meetings? (Attach a copy of agenda and minutes of the last meeting)	Safety concerns and improvement plans are discussed in the meeting. Safety committee meetings Copy is attached.
22. How are the recommendations of the committee(s) implemented?	Discussed in daily meetings committee meetings and implemented
23. Are the minutes of the safety committee(s) meetings circulated among the members?	Yes circulated
24. Are the minutes forwarded to the trade union(s) and chief executive and occupier?	Circulated to the committee members
25. How the management and trade union play their active roles in supporting and accepting the committee(s) recommendations?	Management is taking care of committee recommendations No trade union established
26. How are the safety committee(s) members apprised of the latest developments in safety, health and environment?	Discussing the safety related matters in safety committee meetings.
C) Safety Budget	
27. What is the annual safety budget?	Rs. 2.90 Cr as Safety Annual budget
28. How much percentage is this budget of the total turnover of the company.	4.5 % of total turnover
29. How much budget has utilized till date?	1.21 Cr
30. Is the safety budget adequate?	Adequate budget, yet there is no constraint if additional sanction is required

31. How is the safety budget arrived at?	Based on historical consumption & planning
32. What is the pattern of expenditure for the last five years?	As per the requirement and as increase in trend
33. What are the approved sanctions for the expenditure in this budget?	No restriction on approvals for safety budget release
34. Does this budget get reflected in the annual report of the company?	Yes, Safety budget given priority in companies annual plan
ACCIDENT REPORTING, INVESTIGATION AND ANALYSIS	
35. Whether the accident data for the last three years for reportable and non-reportable accident available?	One LTI reported Records are available
36. Is there any system of classifying and analysing the near miss incidents and accidents? Give the details?	Nearmiss reporting is in place Classification is determined as per SOP, enclosed the report.
37. Are all near-miss incidents and accidents reported and investigated?	Yes, reported, being investigated and recorded
38. For how many years are the investigation reports retained?	From unit startup the incident reports are recorded
39. By whom the accident statistics and data are maintained?	with EHS Department
40. How is the top management apprised of these data?	Review, discussion appraisal during management corporate EHS meetings
41. Is the accident statistics effectively utilized? If yes, how?	Display of Safe man hours provided at security entrance gate.
42. What nature of injuries occurred during the last three years?	Minor cut, Body pains, headache kind of reporting observed in the OP register.

SAFETY INSPECTIONS	
44. What type of safety inspections are carried out and what are their frequencies?	Statutory Inspections of equipment, fire extinguishers, earth pits calibrations, Safety indicators calibrations, work environment monitoring are there.
45. Is there any system of internal inspection?	Yes, being maintained as per SOP
46. Who does the inspections?	EHS team
47. Are the check-list prepared for these inspections? (Specify item-wise, for example, house keeping, fire protection, etc.)	Yes, being followed
48. To whom the recommendations are submitted?	Plant head / Department heads
SAFETY EDUCATION AND TRAINING	
A) Training	
49. Is there any training department?	Separate training department is available Site training coordinator and Dept training coordinators are available.
50. Is there any programmed of induction training?	L2LMS training portal is available. Basic safety induction training being conducted by EHS department.
51. Mention the duration of induction training for each category of employees.	Training records are maintained.
52. Whether the assessment of the trainee worker is done or not?	Training assessment records available.
53. What infrastructural facilities with audio-visual support are available for training?	For Conference and training hall is provided along with audio and video facility
54. Do the programs cover the plant safety rules, hazard communication and any other special safety rules or procedures unique to the plant or specific departments?	Training programs are designed on plant hazard basis and on general safety awareness

55. Whether the training programs are conducted in the local language?	Both in English and local language.
56. Whether visits to safety institutions/organizations are arranged?	No visits to safety Institutions and organizations, but external agencies are visiting for training
B) Periodic Training/Retraining	Training calendar is in place and trainings are organised as per the given schedule
57. Are all the employees trained and what is the frequency of such training?	Training programs are scheduled and followed on monthly basis
58. Do the training programs cover safety and health aspects and if so how much (in terms of number of sessions/hours)?	Training statistics are available, Training on OS & H systems are included
59. Do the trained supervisors train their own employees in safety and health aspects?	Safety Department is conducting.
60. Is the retraining performed whenever new hazards/process changes are followed/introduced?	Process based modifications / change management related SOP are being followed
61. How are the senior management personnel trained in safety and health?	Senior management staff are trained in safety lessons by external agencies, periodical trainings are organised internally
62. How many employees have been trained in safety and health in the last five years? Give break up with details.	Records are available with EHS dept
63. How many man-days/hours are used in training the employees?	Hourly training Records are available for training topics, Employees wise hourly record tracking shall be implemented
64. How do you ensure that the training is put to use by the employees trained in safety and health?	L2LMS training portal is implemented for assessment and further need base.

65. What is the training plan for the next two years? Give details.	Planned for current year Next two years calendar to be developed yet.
66. What documentation system has been established regarding safety and health training?	Training records with attendee, topics delivered and assessment of the program are recorded for evidence
c) Safety communication / Motivation / Promotion	Posters and instruction boards are in place. Periodical training programs, More signage, system of safety motivation to be improved.
67. Does the factory has safety suggestion schemes? Give details.	The safety suggestion scheme and near miss reporting are provided.
68. Does your factory participate in National Awards/ Suggestion schemes?	Not participated for safety awards.
69. Has your factory been awarded during last five years?	Not participated.
70. Are safety contests organized in the factory? Give details.	Safety week, Road Safety, Environment Safety, Fire safety celebrations are conducted
71. What are the publications of your organization? Do they include information on safety and health subjects?	Safety instructions handbook or bulletin may be provided, having information of Occupational health and Behavioural based safety topics, Management Policy, Accident scenarios in the Hand book
72. Is the literature on safety and health made available to the employees?	Safety hand book, Safety Manual and MSDS are kept available
73. How is the safety and health publicized in your factory?	
i) Bulletin boards?	Instruction boards and posters are there.
ii) Post serious accidents?	CAPA is prepared and publicised to employees
iii) News letter?	Safety alerts are distributed
iv) Others? Specify	Safety hand book is distributed.
74. Does the organization celebrate safety day/week or organize safety exhibition?	Safety week celebrations and every Safety event within organization

75. When was the last safety day/week celebrated?	March-2021 National Safety Week celebrated
FIRST AID	
76. Are adequate number of first aid boxes provided? Give location details?	15 First aid boxes are available. Antidotes and emergency medicine are kept ready for use Occupational Health Centre.
77. Is there any first aid/ambulance room?	OHC available with Doctor on full time General shift basis
78. Are qualified/trained first aiders available in each shift?	Certified First Aiders are available and deputed in each shift.
79. How many qualified/trained first aiders are available at each plant/department?	First aiders list enclosed
80. How many persons are trained/given refreshers training in first aid in a year?	First Aiders list enclosed
OCCUPATIONAL HEALTH CENTRE	
81. Whether occupational safety and health center is provided or not?	OHC is provided.
82. Does it confirm to the provisions of the existing location?	Regular Health assistants in duty.
83. Are the Medical Attendants/Doctors available in each shift?	Regular Health assistant on duty
84. Is ambulance van available in each shift?	Ambulance is available with Driver
85. Any liaison with the nearest hospital(s)? Give details.	MOU shall be obtained from the Multispecialty hospital
GENERAL WORKING CONDITION	
A) House Keeping	In general House Keeping is maintained at all sections of the plant.
86. Are all the passages, floors and the stairways in good condition?	House Keeping maintained

87. Do you have the system to deal with the spillage?	Spill control system with spill control tools are provided, suggested to display the usage procedure
88. Do you have sufficient disposable bins clearly marked and whether these are suitably located?	Available at required locations with markings for the purpose
89. Are drip trays positioned wherever necessary?	Drip trays shall be provided in drum storage area
90. Do you have adequate localized extraction and scrubbing facilities for dust, fumes and gases? Please specify.	Chimney for coal fired steam Boiler. At each production block scrubbing system is installed.
91. Whether walkways are clearly marked and free from obstruction?	Walkways are marked from main entrance to the production area, process hall
92. Do you have any inter-departmental competition for good housekeeping?	Good Housekeeping competitions among departments shall be developed
93. Has your organization elaborated good housekeeping practices and standards and made them known to the employees?	Good housekeeping topics shall be included in the training calendar.
94. Are there any working conditions which make the floors slippery? If so, what measures are taken to make them safe?	Found no slippery conditions in the plant
95. Does the company have adequate measures to suppress polluting dust arising out from road transport?	Plant internal roads are constructed and no pollution arises due to internal transport
B. Noise	
96. Are there any machines/processes generating noise? Specify.	Noise areas are, D.G. sets and Utility section
97. Was any noise study conducted?	Noise levels are measured and recorded,

98. Which are the areas having high-level noise?	Boiler, Centrifuge, D.G. sets and Utility areas is high noise area.
99. Have engineering and administrative controls been implemented to reduce noise exposure below the permissible limits?	Work environment monitoring system in practice internally.
100. Is there a system of subjecting all those employees to periodic audiometric test who work in high level noise areas?	Audiometry Medical tests are being conducted.
101. Whether the workers are made aware of the ill-effects of high noise?	Training on effect of noise shall be conducted
102.Whether any personal protective equipment along with ear muffs/plugs are provided and used.	Usage of ear plugs is minimal at high noise areas,
C) Ventilation	
103.Whether natural ventilation is adequate or not?	Ventilation system provided for production block
104.Whether dust/fumes/hot air is generated in the process? Give details.	Stack emissions at boilers and the production blocks the scrubbing system is arranged. Process systems (reactors) connected to scrubber.
105.Is there any exhaust dilution ventilation system in any section of the plant?	Exhaust to the chimney at boilers.
106. Whether any ventilation study has been carried out in the section(s) to check the record?	Ventilation study shall be conducted as per ACPH requirement for the process blocks, utility area and hazardous material stored areas
107. Are periodic/preventive maintenance of ventilation system carried out and record is maintained?	Preventive maintenance / SOP for AHU is in place.
108.Does any ventilation system re-circulate the exhausted air in work areas?	Clean room process within production area are with ventilation system re-circulate the exhausted air in work areas.

109. Is the work environment assessed and monitored?	Recommended for Ventilation study in production blocks, assessed by third party periodically
110.Whether personal protective equipment are given to workers exposed to dust/fumes and gases? Give details.	All required types of PPE used in the plant, more seriousness to be created to use anti static tools, Safety Helmet, Safety Shoes, Safety Harness etc.
111.Was any study carried out for the assessment of illumination level?	Illumination check done internally. Standard level of illumination shall be marked in the report.
112.Is there any system of periodical cleaning and replacing the lighting fittings/lamps in order to ensure that they give the intended illumination levels?	Available
113.Are the workers subject to periodic optometry tests and records maintained? Give details.	Periodic medical checks done, records are maintained.
114. Are all the hazardous areas identified?	Hazard analysis study done, plant hazardous areas are identified.
115. What are the types of hazards (physical-noise, heat, etc. and chemical-fire, explosion, toxic release, etc.)?	All potential hazards like Chemical, Fire, Toxic release are addressed in the HARA report.
116. What steps have been taken to prevent these hazards? Give details?	Specific instructions, signage boards, PPE's , Safety training, Risk assessment and Hazard control.
117. Are there any safety interlocks, alarms and trip system? Give details.	Safety indicators are placed for over flow, over pressure, high temperature, gas leakages and trip systems at storage areas.
118. Are these tested periodically? How often? Please specify	Periodically Inspected as per SOP and recorded.
119. Are there any ambient monitoring devices with alarms for leakage of hazardous materials? Give details.	VOC monitor, LEL sensors are provided at production blocks and Warehouse area

120. Are safety audit or HAZOP or any other studies carried out and the recommendations implemented? Give details.	HAZOP study for the products are available
121. What has been the major modification done in plant/ process and has the approval of the competent authority concerned?	With approval of concerned authority Plant was expanded, building
122. What decision and monitoring equipment are available and used for checking the environmental conditions in and around the plant? Give details	Monitoring equipment such as Noise level meter, VOC meter, Lux meter, Multi gas detector, Static charge meter, motion sensor are available in the plant.
TECHNICAL ASPECT	
Safe Operating Procedures	
123. Are written safe operating procedures available for all operations?	Operating instructions are displayed, standard operating procedures and safety system procedures are available in the plant. Recommended to revise the Emergency shutdown procedure for all critical process equipment
124. Whether the written safe operating procedures displayed or made available and explained in the local language to the workers?	Safe instructions with Do's and Don'ts are displayed at work site.
125. Whether the safe operating procedures are prepared jointly by the plant and safety departments?	Yes, EHS department involved in preparation of Standard systems.
126. What system is used to ensure that the existing safe operating procedures are updated? Give details.	Periodical review and updating with respect to the change management.
127. Have the workers been informed of the consequences of failure to observe the safe operating procedures?	Included the training on SOPs in the training schedule
128. Are contractor workers educated and trained to observe safety at workplace?	Safety Trainings are conducted.

129. Whether contractor's workers are permitted on process / operations? Give details.	No contract workers are directly employed in the plant process system.
WORK PERMIT SYSTEM	
130. What necessary type of work permits exists in your factory? Give details.	Work permit system is there in the plant, and implementing the work permit system for all maintenance and other critical works. LOTO system is implemented. Work Permits liked Height work, Hot Work, Confined space entry, Electrical Work, Unloading work permits are in practice Include the Gas detector details used for checking at work place in the Hot work permit system, confined space entry permit system Standby person details shall be mentioned in the confined space entry permits
131. What are the hazardous chemicals handled?	Solvents, Acids and Raw materials.
132. Are the keys kept for individual locks which are used for electrical lock outs with the supervisor concerned?	Yes, individual locks for Tag out and Lock out system followed.
133. Is identification done for various types of wastes? Give details.	Identification of Various types of waste is done.
134. Are these quantities less than those specified by the hazardous wastes. (Management & Handling Rules, 1989)?	Yes, it will be complied with consent. After treatment the wastes disposed to the Authorized vendor.
WASTE DISPOSAL SYSTEM	
135. What are their disposal modes?	The hazardous waste being disposed to the Authorized vendor.
136. What are the systems/measures adopted for controlling air/water/land pollution?	No effluents are discharged from the process. All treated water is sent to approved vendor for hazardous waste treatment

137. What is the system of effluent treatment plant and whether it is approved by the competent authority?	The organisation is having ETP facility for Effluent treatment monitored by the PCB online
138. How are the treated effluent used?	Treated effluents are transferred to Central ETP by Ramky and further treated as per PCB guidelines
PERSONAL PROTECTIVE EQUIPMENT (PPE)	
139. Has a list of required PPE for each area/operation been developed and the required PPE is made available to the workers?	Yes all required PPE are issued. The list is enclosed.
140. Are the safety department and the workers consulted in the selection of PPE?	PPE being procured as recommended by Safety department.
141. Have the workers been trained in proper use of PPE?	In induction training, these points are trained
142. What is the system of replacement/issue of PPE?	Periodically issued the PPE and need base issuing is also in practice
143. What are the arrangements for safe custody and storage of PPE provided to the workers?	Issued all necessary PPE to every employee, also provided required facility for workers at required process areas. Found some of the PPE boxes are left without PPE, recommended to replenish the same and maintain a record of periodical checking of PPE boxes
144. Are the contractor's workers provided with the required PPE? Who is responsible? Give details.	Company is responsible and supply for all employees and workers within premises.
145. Are the PPE conform to any standard? Give details.	Conforms ISI standard and CE mark.
146. Give the details of PPE and also specify the responsibility for their inspection and maintenance?	Individual are responsible for maintenance and inspection of the PPE. The safety department checks periodically.
FIRE PROTECTION	

147. Indicate on a plant layout the location, number (Quantity) and types of portable fire extinguishers available?	ABC type Fire extinguishers are in place in total area. The list is enclosed in the ANNEXURE.
148. Are the fire fighting system and equipment approved, tested and maintained as per relevant standard?	Procured the standard approved equipment, maintained with periodical maintenance.
149. What is the inspection and maintenance schedule of the above extinguishers? Who performs these functions?	Periodical inspections are being conducted with periodical schedule, performed by external agency
150. Which areas of the plant are covered by fire hydrants? Indicate the locations of the hydrant points and how the required pressure maintained in the system and ensured.	Hydrant system is covered all plant areas, Hydrant points and fire monitors are listed as annexure
151. What is the capacity of dedicated water reservoir for supply to the hydrants? What is the source of water?	1200 KL Hydrant Water 2 nos Jockey Pump of 13 m^3/hr – With auto ON / auto OFF 1 no Main Hydrant Pump 273 m^3/hr – With auto ON / manual OFF 1 no Diesel Hydrant pump 273 m^3/hr – With auto ON / manual OFF Sprinklers Hydrant Pump 171m^3/Hr Recommended to display the Hydrant pump and sump details at the pump house
152. a) How is the power supply to the fire hydrant pump ensured?	Alternative D G power is provided with auto start
b) What is the alternate source of supply in case of power failure? Give details.	D.G. sets are available as below 1500 KVA - 1 nos 30 KVA – UPS power for emergency lighting
153. Are all personnel conversant with the fire prevention and protection measures? Give details	Plant operators are Trained in fire prevention and firefighting. List is enclosed.
154. What percentage of plant personnel and staff and officers, have been trained in the use of portable fire extinguishers? Give details.	Suggested to keep practicing all employees and security personnel in fire fighting and use of fire extinguisher.

155. Do you have fixed or automatic fire fighting installation(s) in any section of your plant?	Fire extinguishers / modular, sensors and sprinklers are provided at designated areas.
156. Are the fire alarms adequate and free from obstruction?	MCP and detectors are provided
157. Do you have fire department? If yes, give details.	No separate department for Fire. Safety department is looking after fire systems.
158. What is the system for conducting mock drills? Give details.	Mock drills are being conducted on Fire scenario on quarterly basis. practicing of mock drills with different scenarios on holidays and night shifts
159. Do you have any mutual aid scheme with any of your neighboring industry or any local organization(s)?	Yes, it is among the SEZ Industries which are located in surrounding areas, enclosed the copy of Mutual Aid agreement
160. Give details of the existing fire resistant walls and doors.	Fire resistant walls and doors rated for two hours.
161. Do you have any system of color coding for all the pipe lines for hazardous chemical? Give detail including marking of flow directions.	Yes color coding system is in practice for the Tank farm pipelines and process plant area. Recommended to provide code details display at all locations and flow direction markings on the pipelines
162. Are there any safe containers for the movement of small quantities of hazardous chemicals? Give details.	No containers are in use for liquid chemicals, Pipelines to transfer from the tanks to process day tanks. Powder materials are handled through drums from warehouse to process areas
163. Are all self-closing fire doors in good condition and free from obstructions?	Fire doors with panic push bar.
164. How many major and minor incidents/fires were there in the factory during the last five years? Give department/ plant wise.	No major accidents in the plant history
165. Have all the fires/incidents been investigated and corrective actions taken? Give break up.	Incident report is in practices, CAPA is implemented

EMERGENCY PREPAREDNESS	
166. Is there on-site emergency plan for your factory? (attach a copy of the plan)	On site Emergency plan is available. Prepared in the year 2020. Same is under revision with potential emergency hazards, emergency organisation with roles and responsibilities, communication shall be incorporated.
167. What is the frequency of conducting mock drills of on- site emergency plan?	The mock drills being practiced quarterly
168. What are the number and location of emergency control centre, assembly points?	Two emergency assembly points provided
169. Whether emergency team or the key personnel identified?	Yes they are identified, list of emergency team are mentioned in the OSEP report
170. Are suitable and adequate protective and rescue equipment available? How is the emergency rescue team trained to use these equipment?	ERT members are trained for use of emergency tools
171. How is the emergency communication with local bodies and other organizations ensured? Give details.	As detailed in the emergency management plan, by siren to plant people and by phones to the outside managers and Govt. Authorities.
172. Is any alternate power source identified? Give details.	D G power is available.
173. What is the medical emergency response system? Give details.	As detailed in the emergency plan. MOU from a nearest hospital for emergency treatment to be obtained.
174. Are you a member of any MUTUAL-AID-SCHEME of your area? If so give details?	Mutual Aid agreement with neighbouring industries enclosed
175. How many emergency alarm system(s) is/are available? Give details.	Siren system is available for emergency declaration and one Hand mike for organizing emergency in the plant.

PLANT LAYOUT AND AREA CLASSIFICATION	
176. What is the system of classification of hazardous zones in the plant for electrical installations? Please specify?	Hazardous zone classification done. The solvent storage tanks area and all process areas are hazardous areas. Tank farm and Process area are provided with flame proof electrical installations
177. Whether periodic inspection and preventive maintenance of electrical installations is done by a qualified person and record is maintained?	Inspections are conducted and recorded
178. Whether plant layout with area classification has been displayed at appropriate place(s)?	Plant layout with area classification displayed with evacuation plan.
STATIC ELECTRICITY	
179. Whether the process(s) and equipment generate and accumulate static charge have been identified? Give details.	All process areas, Pipelines and Tank farm area are identified as static charge accumulating areas
180. Whether all such equipment are properly bonded and earthed?	All process and electrical equipment are earthed.
181. How is electrical resistance for earthing circuits maintained? Are periodic inspections done and recorded?	Periodical Inspection conducted internally and external by third party
182. Are adequate earthing arrangements made at the terminal points where hazardous chemicals are handled through pipes?	Earthing provided. The test report is enclosed in the annexure.
183. Are anti-static charge devices fitted wherever necessary?	Yes they are provided at all process areas Recommended to provide dedicated earthing tools for all critical process equipment where manual charging is planned
184. Whether these devises are periodically checked and maintained by a qualified person?	Recommend for periodical tests to be conducted by third party and maintain the record

PRESSURE VESSELS (FIRED AND UNFIRED)	
185. Give details of the plants, piping and vessels which are operated at a pressure greater than the atmospheric pressure.	Fired boiler is there in the plant. The unfired pressure vessels for supply of instrumentation air and nitrogen
186. How it ensured that the working pressure inside the pressure vessels/pressure plants will not exceed their maximum working pressure for which it is designed?	Pressure gauges and overpressure safety relief valves are placed with pressure vessels.
187. What means of isolating the pressure vessels or means to prevent rise in pressure are installed?	Overpressures are controlled by continuous monitoring and vented by SRV.
188. What standards/codes of practice are adopted for design, fabrication, operation and maintenance of the pressure vessels and records maintained?	The pressure vessels are of standard design and certified.
189. How are the pressure vessels tested? Give details.	Examined by the Competent Person as per Factories Rules
190. Is there any competent person for testing these pressure vessels? Give details	Competent Person approved by Director of Factories examined the vessels, report copy enclosed
191. How are the recorded results verified?	Verified by the EHS team internally
192. Give details of safety devices available for these pressure vessels?	Reaction vessels are not tested with requirement to the Factories Rules, safety indicators and venting system are not addressed in the test reports
193. Whether log book for pressure vessel and pressure plant has been maintained?	Log book for pressure vessel and pressure plant operations and maintenance shall be maintained. Suggested to maintain inspection log book separately.

NEW EQUIPMENT REVIEW	
194. What is the system for effecting any change in the existing plant, equipment or process? Whether it is approved by the appropriate competent authority?	New equipment system installation and change management are in Discussions and approval system is in place
195. Whether the P & I diagrams and other related documents are updated accordingly?	P&I drawings shall be developed for each process step
LIFTING MACHINES & TACKLE	
196. Whether all the lifting machines are marked with their S.W.L?	Yes, marked
197. Are all the examinations and tests documented in the prescribed form?	Examined and certified by competent person in prescribed form
198. Are all the examinations and tests carried out and certified by competent person(s)? Give details.	Competent person examined and certified in Form-38 for all lifting tools / equipment
199. Are adequate lifting tackles provided at all the places where it is required? Give details.	Yes, Provided
200. Are the trained operators engaged for operating the equipment? Give details.	Yes, training provided on material handling
201. What is the system of training such operators?	Internal training by EHS team on material handling
202. Are all the lifting machines and tackles maintained in good conditions and record maintained?	Record to be maintained for all lifting tools maintenance and testing
MOBILE EQUIPMENT AND VEHICULAR TRAFFIC	
203. Are all the mobile equipment in good condition?	One Forklift Truck inside plant in operation
204. Are trained drivers engaged for fork-lift trucks?	Yes engaged
205. What is the system for identifying the drivers from other drivers?	Uniform code

206. What system do you adopt to assess their standard of driving as poor / fair / satisfactory / good?	Annual assessment
207. Are there adequate number of warning signs/signals?	Warning signals for plant internal traffic to be improved. Speed limits within plant are displayed
208. Are the hazards associated with transportation within the plant identified and safety measure taken? Give details.	Material handling safety training provided, records are with EHS department Risk assessment is studied and report available
ACCESS	
209. Is adequate safe access provided to all places where workers need to work?	Yes, all work places have easy access.
210. Are all such access in good condition?	They are in satisfactory condition.
211. Are portable access platforms necessary? If yes:	Fixed access by stair cases are provided at required places.
a) Are these sufficient?	Sufficiently provided.
b) are these regularly inspected?	Record of inspection to be maintained
c) are these readily available?	Fixed stairs available.
d) are these provided with toe-boards and railings?	Fixed steps are provided.
212. Oiling and greasing points:	No oiling and greasing system.
a) are these located and extended to safe place clear of moving parts?	Being maintained.
b) are these easily accessible?	Access is provided
c) are these liable to drip into walkways?	No, required care is taken
d) whether such workers were trained and whether they are provided with fit-tight clothing and register is maintained?	Process area team uniform provided (gowning)

213. Are all drain covers in good condition and fitting flush?	All drains are covered.
MATERIAL HANDLING	
214. Are there adequate storage facilities available?	Storage facilities maintained well.
215. Are these areas clearly defined?	They are clearly defined.
216. Are all racks and steel ages in good condition?	Pallets are used and stored on ground, not racks are installed
217. Have you adequate equipment for handling materials?	Adequate material handling equipment are available
218. Do the workers know the hazards associated with manual material handling?	Safety dept training in manual material handling.
219. Where manual handling is necessary, are the workers been trained?	The workmen are trained periodically in manual material handling.
220. Do they practice this?	They are practicing.
221. Do workers follow safe procedures for storage of materials?	Following safety in storage of materials, safety systems being improved.
222. Whether contractor workers are trained in safety?	The contract workers are covered in safety trainings.
223. What is the system for handing over plant to the maintenance department and receiving back?	Permit to work system is implemented but strict follow-up is always required by permit issuers
224. Is the system consistently applied?	Permit to work system is Applied.
225. What is the system for the preventive and predictive maintenance and how do you ensure its effectiveness? Give details.	Suggested to have periodical reviews to ensure the maintenance system is effective.
226. Whether it is pressure vessel or not	Bulk Storage vessels are at atmospheric pressure.

227. Give storage vessels designation (exceeding threshold quantities specified in MSIHC, Rules 1989)	Solvents in the storage tanks are at separate location. The storage tanks are approved by PESO.
228. Give the names of storage materials in each of them.	List of solvents stored in vessels are there enclosed
229. What are the vessel sizes (capacity tonnes)?	Storage vessels details and capacities are enclosed in annexure
230. What is the material of construction for each vessel and what standards followed in designing/fabricating the vessel?	Solvent tanks are designed as per PESO and approved by the Authorities. Tanks are of M.S. Fabricated.
231. What are the operating pressure and temperature?	Atmospheric temperature and pressure.
232. What are the vessels location? (Please indicate on-site plan or plot plan)	Site plan with location markings to be displayed at entry gate.
233. Indicate whether vessels are above ground/underground	Above ground vessels.
234. If any of the tanks storing flammable material, whether electrical installations are flameproof or not?	Flame proof installations addressed for all solvent storage tanks with earth right system for material unloading at tank farm
235. Are these storage vessels bunded/diked?	The vessels are in Dike walls
236. If yes, what is the capacity of the bunds/dikes?	Designed and constructed 1.2 time of their capacities.
237. Are the vessels properly bonded and earthed and whether periodically checked and record maintained?	Earthing provided and pipelines are bonded, they are to be periodically checked.
238. How are vessels isolated in the event of a mishap?	By isolation valves, and control flow of material.
239. Are the vessels fitted with remotely controlled isolation valves?	No remote control valves are there.

240. Are vessels provided with emergency vent, relief valve, bursting disc, level indicator, pressure gauge, overflow line?	The storage vessels are provided with Nitrogen breather valves and level indicators. Process vessels are inspected and certified by competent person, Reaction vessels are not tested with requirement to the Factories Rules, safety indicators and venting system are not addressed in the test reports
241. Where do such vents discharge?	At safe place to neutralize in scrubbing system
242. Are the vessels provided with alarms for high level, high temperature and high pressure?	Alarms are provided.
243. Are stand by empty tanks provided for emptying in case of emergencies?	Stand by tanks are kept available.
244. What are the provisions made for firefighting/ tackling emergency situations around the storage vessels?	Installed fire extinguishers and fire hydrant system. Tanks are located at safe distance to combat easily in case of fire
245. Has any consequence analysis been carried out for these vessels? (If yes, give details)	Major accident case scenario calculated and mentioned in HARA
246. What periodical testing are carried out on the vessels to find out the integrity of the vessels?	Periodical examinations physical inspection and thickness test are carried to the process vessels
247. Whether these tests are certified by the approved competent persons?	Yes, certified by competent person
248. Whether log sheets are filled up on daily basis for recording the parameters of these vessels?	Being followed the inventory and balance in storage tanks by warehouse team,
ON-SITE GAS CYLINDERS STORAGE AREA	
249. What are the various gas cylinders used in the plant? (give details)	Hydrogen for Hydrogenation reactions Nitrogen, Oxygen gas cylinders are used in the plant for Lab purpose.

250. What are the storage facilities?	Cylinders are stored and secured
251. What are the measures taken for combating any emergency in the cylinders storage area?	Fire proximity suits are available, fire monitor system provided
252. Are valid licenses available for storing all these cylinders?	Limited quantity of gas cylinders are in plant area
253. Whether integrity test certificates are obtained from the suppliers of the cylinders?	Suppliers are maintaining the records
COMMUNICATION SYSTEM ADOPTED IN PLANT	
254. Are public address system available in all plant areas?	Mobile phones for managerial level and land line phones are available. But at restricted places no mobile phones only land line telephones are allowed.
255. Are public systems provided with uninterrupted power supply?	Provided Mega phone is also provided
256. Whether public address system is checked periodically for its proper functioning?	Being checked for its functionality
257. Is there any hot line provided to fire station?	
258. What is the means of communicating emergency in the plants?	Intercom, Siren and hand phones
TRANSPORTATION	
259. What potentially hazardous materials are transported to or from the site (including wastes)?	All required raw materials, gas cylinders, Acids and solvents transported by road.
260. What modes of transport are used:	By road trucks and road chemical tankers
a) Road?	For personnel movement and travelling, raw materials, gas cylinders and solvents.

b) Rail?	No rail facility.
c) Pipelines?	No. pipelines outside the plant.
261. Does the company employ licensed vehicle of its own/ outside sources?	Vehicles are from outside sources but only licensed vehicles are allowed.
262. Are the loading/unloading procedures on-site and safety precautions displayed?	All hazardous material unloading works followed by work permit system. Tanker unload safety displayed
263. Are loaded tankers or trucks parked in a specific area on-site?	No trucks are allowed to park in the plant after unload or loaded.
264. Do all truck and tanker drivers carry TREM card or instruction booklet?	TREM CARDS are carried with drivers.
265. Do all truck and tanker drivers get training in handling emergencies during transport?	They are of outside source, but trained to handle emergency
RAIL	
266. What hazardous materials are transported by rail?	Not applicable
267. Does the company have a direct siding on site?	Not applicable
268. Are tankers or others wagons used in transportation?	Not applicable
PIPELINES	
269. What materials are transported to and from the site by pipeline?	No materials are transported to and fro by pipeline.
270. Are the pipelines underground or over ground?	Not Applicable
271. Are corrosion protection measures employed in pipelines?	Not applicable
272. Whether intermediate booster pumps are used?	Not applicable
273. What is the maximum, minimum and average transfer rates?	Not Applicable

274. Are the pipelines extended in the public domain?	No plant outside pipelines.
275. Are the pipelines dedicated for each type of chemicals?	Not applicable
276. Are the pipelines fitted with safety equipment such as leak detectors, automatic shut-off valves, etc.?	No plant outside pipelines.
277. What is the frequency and method of testing of the pipeline?	Plant outside pipelines is not there.
278. Is there written procedure for tackling leakages in pipeline?	Plant outside pipelines is not there.

10. SAFETY AUDIT OBSERVATIONS:

The following Fire Safety and Safety systems are installed in the plant.

1. Company have obtained the license from Factories Dept and consent from PCB, NOC from Fire Dept, License for handling solvents from PESO, Boiler License and Electricity board certification periodically.
2. Accident / Incident statistics with Safe Man hours, LTI shall be provided in display
3. Fire extinguishers are adequately provided
4. Fire water pump house for fire fighting purpose
5. Fire hydrants and fire hose boxes
6. Earth pits for grounding purposes
7. Vehicle / Road Transport Tanker Auto antistatic discharge system
8. Emergency Showers and eye fountains
9. Required Personal Protective Equipment.
10. Alternate power DG and UPS for Emergency lighting
11. Doctor on full time available
12. Safety committee is available
13. Emergency communication system Siren provided
14. Licensed operators for Boiler on duty

15. Electrical Licenses for the team available
16. Warehouse team all are trained on Fire fighting,
17. Gas levels monitoring, compatibility charts and required PPE are available at warehouse
18. Solvent storage tanks provided with breather valves and earth right system
19. NFPA identification is provide for the tanks
20. Spill kits provided at required areas

11. SPECIFIC SAFETY RECOMMENDATIONS:

During plant Audit and examination, the following safety related points were observed and corrective actions recommended for further safety improvement of the plant.

Policy / Management

1. Safety policy is signed by MD on 09/Jul/2019, the same shall be reviewed periodically mentioning the revision number and next revision date.
2. Develop the HR policy in the welfare point of view for the employees.

Statutory

3. MOU with nearest multi speciality hospital shall be obtained

Health

4. 10 % of employee strength shall be trained certified in Fire Fighting and First Aid
5. Health surveillance procedure shall be developed for every employee and keep a track of all employee's occupational health issues
6. Post-employment medical check shall be performed for the employee being relieved or retirement to confirm the employee's health condition during their service to company and leaving in good health condition.
7. Recommended for periodical Ventilation study in production blocks, assessed by third party periodically

Safety

12 First aiders list with emergency contact number shall be displayed at security along with the availability on duty / off duty.

13 Increase Safety slogans / Safety posters at plant designated areas like Process areas, Warehouse, Quality Lab, Tank farm area, Security.

14 Identify possible worst-case scenarios within plant and operations, Practice the Mock drills in accordance to the worst cases during Holidays and Night working times, maintain the record and observations addressed during the mock drills

15 Emergency organisation chart for night shift / PH days shall be prepared, emergency response roles for shall practiced for being Handed over / being taken over and the same is recorded.

16 Trainings for the employees shall be included with topics likes Training on OS & H systems, Management policy shall be included

17 Employee training record shall be maintained for individual trainings attended with tracking and assessment

18 Nearmiss reporting system shall be established, it is essential to develop nearmiss reporting system and all employees shall be trained in reporting a nearmiss. observed nearmiss shall be encouraged by management for best nearmiss reported in a particular month. Targets for minimum number of nearmiss reports to be generated per department may be planned.

19 Training per each person within a year are not determined, the training hours shall be increased to minimum number of hours to be determined and implemented accordingly.

20 Provide Dress code or easy identification for First Aiders

21 Suggested to have monthly / quarterly safety contests system to improve the safety awareness, interest and knowledge

22 The safety suggestion scheme shall be introduced.

Fire fighting

23 Increase the number of trained fire fighters in plant operations and Utility areas. All Security guards shall be firefighters by default

24 Fire extinguishers wall mounted shall be fixed at standard height for easy access during the emergency, the standard height shall be 750 mm above the ground for the base of the extinguisher

25 Provide the pressure indicators at designated plant areas showing the hydrant line pressure for continuous monitoring, the pressure indicators shall be provided as per the standard design.

26 FE identification may be marked with the numbers such as the last number ends at security to indicate the total quantity of extinguishers within plant

Electrical

27 Recommended for Thermography study to be conducted by the experts from third party agency for the electrical panels / switch boards shall be conducted at critical process areas and check the condition which may raise to emergency situation

28 Report for Thermography record sheet (format num: EHS/ELEC/060.00/F1-00) Dtd. 16/09/21, the temperatures found to be high on PCC-1, Chiller panel, AFFC-01, PCC-2. But no causes, actions required are not mentioned, hence recommended for external expert to study and suggested to required actions.

29 Earth pits shall be provided with proper identification, inspection date and due date with ohms tested.

30 Electrical panel rooms shall be provided with fire protection system / auto fire suppression system

31 Safety signage's shall be provided for HT & LT terminal box in Hindi / English and the local language.

32 ELCBs shall be provided in All the LDBs

33 Periodical Inspection conducted internally for earthing systems, shall get the testing done by third party

34 Recommended to provide dedicated earthing tools for all critical process equipment where manual charging is planned

35 Main panel room found with panels are kept open door for panels due to heat generation, proper ventilation shall be provided for the panels.

Warehouse

36 Solvent drum storage shall be provided with spill control kit

37 Fire detection system shall be installed at drum storage shed

38 Walkway / emergency escape way shall always be clear from obstructions. Found material being stored closing the emergency escape way provided backside of the shed

39 Suggested to display the Spill mopping kit usage instruction at all designated areas

40 Drip trays shall be provided in drum storage area to control the leaks and spillages of the hazardous material

Production / Process

41 Provide the pipeline colour coding display at designated areas of plant and mark the flow directions on the piping

42 Pressure vessels found no Hydrostatic tests are conducted since they are taken into operations, as per Factories Rules of AP, Rule-56. Competent Person have not recommended for Hydrostatic test as a requirement

43 Ventilation study shall be conducted for all process, utility and hazardous materials handling areas

44 Recommended to provide collection tank for all process blocks of suitable volume commensurating the operational vessels

45 Reaction vessels are tested and certified by competent person as per Rule 56 as a pressure vessel (form-8), the certification shall be done under Rule 95,

considering the Reaction vessel with safety. Requirement to the Factories Rules, safety indicators and venting system are not addressed in the test reports

Utility

46 Illumination check done internally. Specimen copy enclosed. Standard level of illumination shall be marked in the report. Recommended to get the check by third party

47 Utility block is found to be High Noise area within plant operations, Ear protection signage shall be provided with current date's Noise level and permissible Noise levels. Frequency of checking by local team are recommended to weekly basis.

SOP

48 Suggested to develop the SOPs in local language and provide the same at operating areas for reference. Safe Operating Procedures with Do's and Don'ts / work instructions to be displayed at work site.

49 Develop specific procedure to handle the emergency shut down of all critical equipment within process.

50 Suggested to develop a separate procedure for material loading and unloading activities in accordance to the type of material and their potential hazards in handling

51 Suggested to develop SOP for inertisation

52 The work permit form for Confined space entry, shall be mentioned with the standby person details, gas free certification details, instrument used for gas free checking

53 Include the Gas detector details used for checking at work place in the Hot work permit system, confined space entry permit system

54 Electrical instrument used for checking, its details shall be mentioned in the Electrical work permit also the LOTO details with isolation tags shall be entered in the electrical permit.

LAB

55 Quality lab to be provided with Gas leak sensors, Flame proof cabinets and safety instructions displayed

56 Lab chemicals like Methanol in 2 Litre glass bottles stacked on high levels shall be stored below shoulder level for safe handling

57 Chemical storage cabinets and Oven at Lab shall be provided with exhaust / venting system to safe atmosphere

12.ACKNOWLEDGEMENT

We acknowledge our thanks to the management of M/s LUPIN LIMITED and their team for the giving this opportunity on Occupational Safety and Health Audit as per IS-14489 and for their cooperation in all aspects.

DISCLAIMER

PROACTIONEERING CONSULTANTS SAFETY. is a service providing company, providing Safety services and industrial services such as Statutory Inspections and certification, Safety Audits, Emergency Management, Emergency Response plans, HARA, HAZOP, Safety survey and Safety trainings programs etc.

Individually and collectively, referred to in this clause as PROACTIONEERING CONSULTANTS SAFETY. assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by Client Company on the information or advice in this document. PROACTIONEERING CONSULTANTS SAFETY. does not hold any legal obligation in any aspect.

Also the suggestions given in the report are based on the observations made and on the prevailing situations at the time of Audit and basing on the interaction with the plant personnel and on the professional experience of Auditors.

For PROACTIONEERING CONSULTANTS SAFETY.

Date: 14-07-2021

13. ANNEXURE

PROACTIONEERING CONSULTANTS-SAFETY

STATUTORY INSPECTIONS AS PER FACTORIES ACT AND RULES

SAFETY SERVICES: SAFETY AUDITS, HARA, EMERGENCY PLANS, TRAINING ON HEALTH, SAFETY AND ENVIRONMENT FOR INDUSTRIAL, CONSTRUCTION AND ROAD SAFETY

Audit Meeting

Client: Lupin Limited

Service: Statutory Safety Audit as per IS 14489

Date: 14 / July / 2021

Name	Designation	Signature
Abhijeet shinde	Site Head & GM-manufacturing	
m. yedukondalu	Auditor	
N Ravi kumar	Sr Manager (ENG)	14/07/21
G. Ananda Rao	Manager (PRD)	14/07/2021
N. SRINIVASARAO	Sr. Manager-HR	14/07/2021
RAVI-MEESALA	MANAGER (ADMIN)	14/07/2021
C. Murali Krishna Rao	Auditor	
K.A. VIJAY KUMAR	Auditor	
T. Narayana Rao	Manager	
Pankaj Singh	Manager projects	Attended through M.S teams.
Venkateswara Rao	Manager - PDL	
M E Naidu	Manager QC	
Balakrishna.	Sr. Executive WH.	
B.SIVA Ramakrishna	Lead Auditor	
RAVINDRA BAKARAM	Auditor	

Address: 78-4-9, Syamala nagar, RAJAHMUNDRY (AP) 533103
Mob - 9848290978 e-mail: proaction.in@gmail.com, www.proaction.in

ENVIRONMENT, HEALTH, SAFETY AND SUSTAINABILITY POLICY

ENVIRONMENT, HEALTH, SAFETY AND SUSTAINABILITY POLICY

Lupin Limited is committed to the highest standards of Environment, Health, Safety and Sustainability (EHS&S) management as an integral part of its business.

The organization shall,

- Provide, maintain and upgrade facilities, operations and working conditions such that they are safe for all employees, visitors, contractors and general public.
- Integrate Environment, Process safety, Health, Sustainability and Occupational Safety aspects into planning and decision making of business processes.
- Protect the health and wellbeing of employees and encourage them to adopt practices for maintenance of good health.
- Operate business in a sustainable and socially responsible manner to minimize impact on the environment and to ensure robustness of our supply chain.
- Comply with all applicable regulations and requirements, in letter and spirit.
- Encourage and adopt measures for continual improvement of Environment, Health, Safety and Sustainability parameters by deploying relevant and adequate processes and technology.
- Provide necessary information, train and motivate all employees to conduct operations effectively and responsibly.
- Interact and work closely with all key stakeholders, both internal and external with regard to EHS&S matters, performance and progress.

This policy is applicable to all sites and offices.

Date: 09th July, 2019

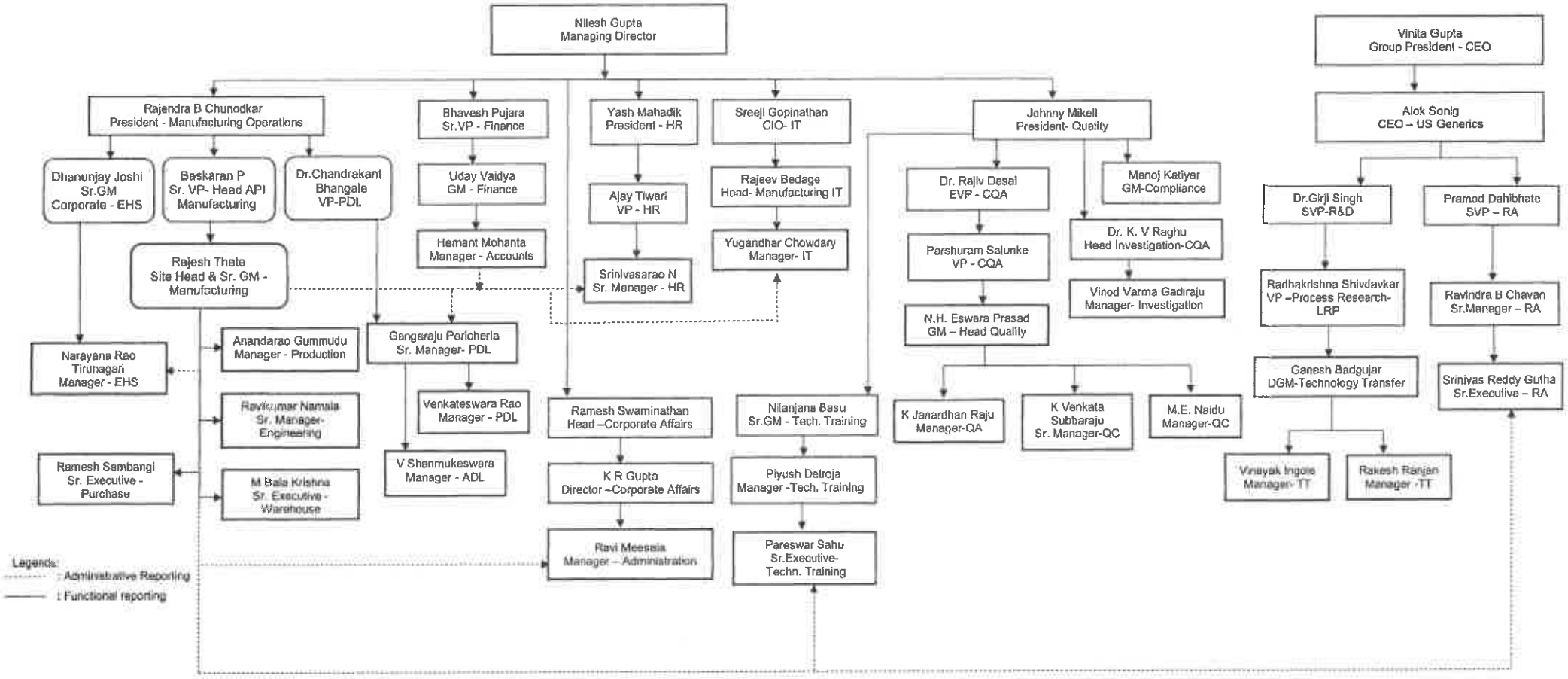
Nilesh Gupta
Managing Director

LUPIN

MASTER COPY
ANNEX_VZG_QA_027100
UNCONTROLLED COPY

SITE ORGANOGRAM

Org[illegible]ogra[illegible] No[illegible]	Z-SI[illegible]-OR-07[illegible]
Supersedes :	VZ-SITE-ORG-06
Ref.Change Control No.:	CCP-VI-620-21-0246
Effective date:	20/08/2021



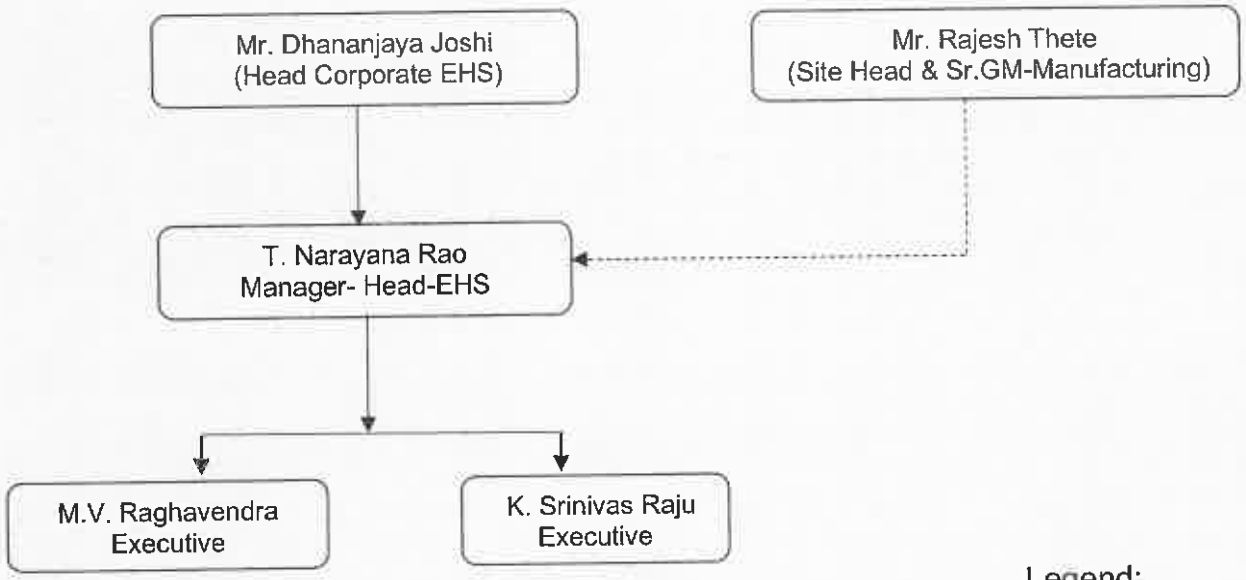
	PREPARED BY	REVIEWED BY	APPROVED BY
SIGN & DATE	20/08/21	20/08/2021	20/08/2021
NAME	G. Sri Lakshmi	K. Janardhan Raju	Rajesh Thete
DESIGNATION	Executive	Manager	Site Head & Sr GM - Mfg.

GM - Quality
(N.H. Eswara Prasad)

LUPIN

EHS ORGANOGRAM

Organogram No.:	**VZ-EHS-ORG-02**
Supersedes :	**VZ-EHS-ORG-01**
Ref.Change Control No.:	**CCP-VI-620-21-0246**
Effective date:	



Legend:

Straight line indicates Functional reporting

Dotted Line indicates Administrative reporting

	PREPARED BY	REVIEWED BY	APPROVED BY
SIGN & DATE			
NAME			
DESIGNATION			

FORM NO.4
PRESCRIBED UNDER RULE 4(4)
LICENCE TO WORK A FACTORY

1. Licence Number	:	44697
2. Registration Number	:	104277
3. Full Name of Factory	:	M/S LUPIN LIMITED
4. Full Address/Location of factory	:	Plot No 130, Road No 11, J.N.Pharma City, Parawada, Visakhapatnam District.
5. Full postal address for communications Relating to the factory	:	-do-
6. Maximum horse power installed regular/ Stand by	:	"423" H.P
7. Maximum number of workers to be employed	:	"330" (500 workers)
8. Full name, father's name, age & residential address of the occupier and his position in the company/firm/government factory/local fund factory.	:	Sri. Nilesh Deshbandhu Gupta, (Age 50 Yrs) : S/o Desnbandhu Pearelal Gupta, : Door No. 48/49, Hathesh Society, : North South Road No.7, JUHU Scheme, Mumbai-49, Maharashtra State

Licence is hereby granted to the factory at 3 above for the premises stated at 4 above for use as a factory within the limits stated in 6 and 7 above subject to the provisions of the Factories Act, 1948 and the rules made there under subject to the conditions communicated through vide Lr.A.No.103/2016, dt: 23-01-2016.

This Licence shall be valid until it has been duly cancelled.

Date: 23-01-2016.

Joint Chief Inspector of Factories,
Visakhapatnam.

"ENDORSEMENTS"

Endt A No 864/17 dt 1-8-17

Full name father's name, age & residential address of the occupier.

Sri Ramesh Sivaminathan
Age 52 yrs
S/o Natarajan Sivaminathan
701, ERA III, Marathon Next Gen, opp Peninsula Corporate Park, G K Marg
Lower Perel, Mumbai 400013

RBS Prasad 1/8/17
Deputy Chief Inspector of Factories, Visakhapatnam.

Endt A NO. 173544/2019 dt 15-05-2019

Transfer of licence

change in Name of the occupier : Nilesh Deshbandhu Gupta
S/o Deshbandhu peareylal Gupta
48/49, Hatkesh Society
North South road No 7, Juhu Scheme
Mumbai, Maharashtra - 400049

15 MAY 2019

RBS Prasad 15/5/19
Deputy Chief Inspector of Factories
Visakhapatnam

Endt NO A/250961/2020 dt -10-2020

Amendment & Transfer of Licence

Change in Name of the occupier : Sri Ramesh Sivaminathan (Age 55 yrs)
S/o Natarajan Sivaminathan, 701, ERA III, Marathon Next Gen, Peninsula Corporate Park, G K marg, Lower parel Mumbai, Maharashtra - 400013

maximum HP/KW power installed capacity: 6113 HP
Stand by

Deputy Chief Inspector of Factories
Visakhapatnam

3	Addition / alteration, if any in the building may be verified by building authority.	Mock drills should be conducted once in 3 months for initial two years. Thereafter, once in every 6 months.	All security personnel shall be trained to operate the fire safety equipments during emergency.
4	This is Only for Fire Safety Point of View.	Raise the alarm if the fire cannot be controlled; Evacuate the area completely at once with nearest safe exit.	Attack the fire using available fire equipment only if you feel capable of controlling. If not, take all steps to isolate the area by closing doors and windows.

4. This Annual Periodical Renewal Fire Certificate is valid from 04/06/2019 to 03/06/2022.

5. The Responsibility/liability of the owner/occupier or both to maintain Fire safety measures in good condition in all times, in accordance with AP Fire safety Act 1999 and Rules, 2006.

The following deficiencies are identified by the officers of the department and needs to be attended to by the management.

Recommended:

1. This Renewal NOC is issued from Fire Safety Point of view only basing on recommendation of the inspection Committee and this Renewal NOC is not for claiming proprietary or ownership rights. Further, in case of any deviation noticed with respect to this Renewal NOC after issuance of this Renewal NOC, the same Renewal NOC shall be liable for cancellation at any time.
2. This Renewal NOC is valid for Three years only and It is the responsibility of the Builder/Owner to apply for renewal of No Objection certificate, duly remitting the user charges as per G.O.Ms.No.169, Home (Prisons & Fire Service) Department. Dt. 19-12-2019. Two months before expire of this No Objection Certificate.
3. The occupier/Owner /Builder/Management concerned of the building premises, shall maintain the Fire Prevention and Fire Safety Measures provided by the building as per Occupancy NOC at all times for good use by the Occupant (or) Members of Fire Services (or) Both in the event of outbreak of Fire.
4. The Renewal NOC issued based on Inspection Committee report.

9936/VSP/MSB/2019

Your Sincerely,

1/12/2020

Director
State Disaster Response & Fire Services
Andhra Pradesh, Vijayawada.

Copy to DEMUDU ANIMIREDDI, Lupin Limited, Plot No. 130, Road No. 11, J.N. Pharma City,PARAWADA MANDAL,VISAKHAPATNAM DT
Copy to Chief Office for Record Purpose
Copy to Regional Fire Officer Concerned
Copy to District Fire Officer Concerned
Copy to Assistant District Fire Officer Concerned

ANDHRA PRADESH POLLUTION CONTROL BOARD
D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet, Vijayawada – 520010.
Website :www.appcb.ap.nic.in

CONSENT ORDER FOR ESTABLISHMENT & OPERATION

Order No. 299 /APPCB/CFE/RO-VSP/HO/2012 **Dt:13.10.2019**

Sub: APPCB – CFE - **M/s. Lupin Ltd., Plot No.130, JNPC, Parawada, Visakhapatnam –** Consent for Establishment of the Board for **Change of Product Mix** under Sec. 25/26 of Water (P & C of P) Act, 1974 and Under Sec. 21 of Air (P&C of P) Act, 1981 - Issued - Reg.

Ref:
1) CFE order dt. 31.10.2012 and amendment orders dt. 16.02.2013 & 09.10.2017.
2) Industry's application received through A.P. Single Desk Portal on 12.09.2019.
3) R.O's inspection report dt. 04.10.2019.
4) CFE Committee meeting held on 10.10.2019.
5) Industry's lr. dt.10.10.2019

1. In the reference 2nd cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for **Change of Product Mix** to produce the products with installed capacities as mentioned below, with an additional investment of Rs. 44.956 Crores.

As per CFE order dt. 31.10.2012 & amendment order dt. 16.02.2013:

S. No.	Products	Capacity (kg/day)
1	Abacavir Sulphate	13.9
2	Asenapine Maleate	5.6
3	Atazanavir Sulphate	13.9
4	Atorvastatin Calcium	33.3
5	Azithromycin Monohydrate	33.3
6	Clopidogrel Bisulfate	97.2
7	Darunavir Ethanolate	13.9
8	Desvenlafaxine Benzoate	13.9
9	Desvenlafaxine Succinate	13.9
10	Diacerein	5.6
11	Donepezil Hydrochloride	13.9
12	Dronedarone Hydrochloride	3.3
13	Duloxetine Hydrochloride	27.8
14	Efavirenz	8.3
15	Emtricitabine	27.8
16	Esomeprazole Magnesium	13.9
17	Febuxostat	3.3
18	Fesoterodine Fumarate	13.9
19	Fexofenadine Hydrochloride	8.3
20	Glipizide	5.6
21	Iloperidone	3.3

22	Lansoprazole	13.9
23	Levetiracetam	16.7
24	Lopinavir	5.6
25	Mesalamine	41.7
26	Milnacipran	13.9
27	Pioglitazone Hydrochloride	13.9
28	Pitavastatin Calcium	13.9
29	Prasugrel Hydrochloride	5.6
30	Pregabalin	55.6
31	Rabeprazole Sodium	13.9
32	Raltegravir Potassium	13.9
33	Ranolazine	83.3
34	Ritonavir	5.6
35	Rufinamide	13.9
36	Sevelamer Carbonate	138.9
37	Simvastatin	27.8
38	Telmisartan	13.9
39	Tenofovir Disoproxil Fumarate	13.9
40	R & D Pilot Plant Trial Run Products (Bulk Drugs and Intermediates)	102.8
	Total	**982.2 Kg/day**

After Change of Product Mix:

S. No	Products	Proposed Quantity (kg/day)	No. of stages	Starting Raw Material	Quantity of SRM (kg/day)
1	Clopidogrel Bisulfate	1.4	2	(S)-N-(2-TE)-2-CPMEHCL	1.82
2	Darunavir Ethanolate	5.6	3	DNV-II	6.28
3	Dronedarone Hydrochloride	1.4	4	2-butyl-3-(4-hydroxybenzoyl)-5-nitrobofuran	1.2
4	Duloxetine Hydrochloride	5.6	2	S(-)MMAA	4.08
5	Emtricitabine	1.4	3	FCME (EMTRI-III)	3.79
6	Rabeprazole Sodium	2.1	3	Chloro compound	3.57
7	Raltegravir Potassium	2.8	2	RLT-II	5.61
8	Ranolazine	27.8	5	2,6,xylidine	14.74
9	Ritonavir	1.4	3	Crude BDH Succinate salt	1.6
10	Simvastatin	2.8	3	Lovastatin	6.11
11	Tenofovir Disoproxil Fumarate	55.6	1	TNF-III	48.31
12	Acotiamide Hydrochloride Hydrate	33.3	3	2,4,5-TMBA	26.95
13	Azilsartan Kamedoxomil	8.3	5	Cyanoester	22.69
14	Canagliflozin Hemihydrate	1.4	2	CNG-IV	2.65
15	Celecoxib	5.6	3	4-Methyl acetophenone	2.94
16	Choline Fenofibrate	8.3	2	4-Chlorophenyl 4-hydroxyphenyl ketone	6.77
17	Cysteamine Bitartrate	13.9	1	Cysteamine HCl	9.92

18	Dapagliflozin premix	1.4	1	DPG-IV	2.78
19	Dolutegravir Sodium	41.7	4	Acetal compound	71.59
20	Efinaconazole	1.4	2	Diol triazole	1.85
21	Empagliflozin	1.4	1	EMG-IV	4.34
22	Ezetimibe	5.6	4	4 Fluoro aniline	5.42
23	Fenofibrate	55.6	2	4-Chlorophenyl 4-hydroxyphenyl ketone (Hydroxy Compound)	64.98
24	Imipramine Pamoate	1.4	3	Iminodibenzo	1.4
25	Isoniazid	27.8	2	4-Cyanopyridine	43.40
26	Lamivudine	13.9	3	Lami-2	129.90
27	Linezolid	6.9	3	FMA	8.77
28	Propranolol Hydrochloride	2.8	2	1-Naphthol	2.84
29	Pyrazinamide	591.7	1	2-Cyanopyrazine	552.96
30	Sacubitril Valsartan Trisodium Complex	2.8	4	Biphenyl acid	2.15
31	Sitagliptin Phosphate	1.4	2	BOC ACID	1.16
32	Tenofovir Alafenamide Fumarate	2.1	2	TNF-III	5.83
33	Zolpidem Tartarate	2.8	3	Nitrile compound	2.57
34	Ziprasidone Hydrochloride	6.9	4	PBT HCl	6.49
35	R & D Pilot Plant Trial Run Products (Bulk Drugs and Intermediates)	33.3			
	Total	**979.20**			

By-products

S. No	Name of the Product	Existing as per CFE 31.10.2012		Proposed	
		Name of the By-Product	Quantity kg/day	Name of the By-Product	Quantity kg/day
1	Festoferodine Fumarate	Aluminium Hydroxide	53.6	Product dropped	
2	Asenapine Maleate	Aluminium Hydroxide and Lithium Chloride	12.4	Product dropped	
3	Ezetimibe	---		R-DPP HCl Salt	1.24

2. As per the application, the above activity is to be located within the existing industry premises located at Plot No.130, JNPC, Parawada, Visakhapatnam in an area of 27.715 Acres (112157.8 Sq. m).

3. The industry was inspected by the Asst. Environmental Engineer-I, Regional Office, Visakhapatnam, A.P Pollution Control Board on 30.09.2019 and observed that the site is surrounded by

North : Plot No : 130 A
South : Road
East : Ramky service area
West : Road followed by reservoir

4. The Board, after careful scrutiny of the application, verification report of the Regional Officer and recommendation of the CFE committee hereby issues **CONSENT FOR ESTABLISHMENT AND OPERATION FOR CHANGE OF PRODUCT MIX** to the project under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**

5. This Consent Order now issued is subject to the conditions mentioned in the Annexure.

6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

7. **This order is valid upto 31.10.2021 i.e., till the validity of CFO & HWA order.**

Encl: Annexure.

Bandla Siva Sankar Prasad

Digitally signed by Bandla Siva Sankar Prasad
DN: c=IN, o=APPCB, ou=EFS and T Head Office, cn=Bandla Siva Sankar Prasad, postalCode=520010, 2.5.4.20=c040c01bf7f6f398976702e0cdb9b479454f18e98b21c03bc47f7349d6555b35, st=Andhra Pradesh
Date: 2019.10.14 11:14:28 +05'30'

CHAIRMAN

To

M/s. Lupin Ltd., (CPM)
Plot No.130,
JNPC, Parawada,
Visakhapatnam.
demuduanimireddi@lupin.com,
iconsservices.vizag@gmail.com

Copy to: 1. The JCEE, Z.O: Visakhapatnam for information and necessary action.
2. The E.E., R.O: Visakhapatnam for information and necessary action.

भारत सरकार
Government of India
वाणिज्य और उद्योग मंत्रालय
Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)
Petroleum & Explosives Safety Organisation (PESO)
डोर नंबर 7-20-13, किरलामपुडी लेआउट
विशाखापट्टनम- 530017
Door No. 7-20-13, Kirlampudi Layout,
Visakhapatanam - 530017

E-mail : dyccevizag@explosives.gov.in
Phone/Fax No : 0891-2722257

संख्या /No : P/HQ/AP/15/4083 (P356653)

दिनांक /Dated : 03/01/2017

9 JAN 2017

सेवा में /To,

M/s. Lupin Limited,
Plot No. 130, J.N. Pharma City, Parawada,
Lemarthy,
Visakhapatnam (Rural),
District: VISAKHAPATNAM,
State: Andhra Pradesh
PIN: 999999

विषय /Sub : Plot No, 130, J N Pharmacity , Parawada Mandal,, Lemarthy, J N Pharmacity , District: VISAKHAPATNAM, State: Andhra Pradesh, PIN: 999999 में स्थित विद्यमान पेट्रोलियम वर्ग A,B,C अधिष्ठापन में अनुजप्ति सं P/HQ/AP/15/4083 (P356653) के नवीकरण के संदर्भ में ।
Existing Petroleum Class A,B,C Installation at Plot No, 130, J N Pharmacity , Parawada Mandal,, Lemarthy, J N Pharmacity , District: VISAKHAPATNAM, State: Andhra Pradesh, PIN: 999999 - Licence No. P/HQ/AP/15/4083 (P356653) - Renewal regarding.

महोदय /Sir (s),

कृपया आपके पत्र क्रमांक LUPIN/VIZAG/16-17/0098 दिनांक 30/12/2016 का अवलोकन करें ।
Please refer to your letter No.: LUPIN/VIZAG/16-17/0098, dated 30/12/2016

अनुजप्ति संख्या P/HQ/AP/15/4083 (P356653) दिनांक 31/12/2015 को दिनांक 31/12/2021 तक नवीनीकृत कर इस पत्र के साथ अग्रेषित की जा रही है ।
Licence No. P/HQ/AP/15/4083 (P356653) dated 31/12/2015 is forwarded herewith duly renewed upto 31/12/2021.

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कड़ाई से पालन करें । अनुजप्ति के नवीकरण हेतु समस्त दस्तावेजों को अनुजप्ति की वैधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व कार्यालय को प्रेषित करें ।
Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence so as to reach this office on or before the date on which Licence expires.

कृपया पावती दें।
Please acknowledge the receipt.

Note : Your Balance Amount with the Organisation is Rs.35625, which will be used for processing of the same Licence in future.

भवदीय /Yours faithfully,

((अब्दुल मुत्तालिब)
(Abdul Muttalib))

Controller of Explosives
कृते उप मुख्य विस्फोटक नियंत्रक
For Dy. Chief Controller of Explosives
विशाखापट्टनम
Visakhapatanam

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : http://peso.gov.in देखें)
(For more information regarding status,fees and other details please visit our website: http://peso.gov.in)

अनुज्ञप्ति संख्या-(Licence No.) P/HQ/AP/15/4083 (P356653)

नवीनीकरण के पृष्ठांकन के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, १९३४ के उपबन्धों या उसके अधीन बनाए गए नियमों या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में यह अनुज्ञप्ति बिना किसी छूट के शुल्क वर्ष तक नवीकृत की जा सकेगी। This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.	नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry of license	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature and office stamp of the licencing authority.
	03.01.2017	31.12.2021	उप मुख्य विस्फोटक नियंत्रक,विशाखपट्टणम Dy Chief Controller of Explosives,Visakhapatnam

यदि अनुज्ञप्ति परिसर इसमें उपावद्ध विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और बिना लिखित और शर्तों के अधीन यह अनुज्ञप्ति संशोधित की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुज्ञप्ति [illegible] और प्रथम अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा।

This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.

क्र. सं. (रा. शि. प्र.) 2000/A
S. No. (NAC) 2000/A

क्र॰ सं॰ 95211

भारत सरकार
GOVERNMENT OF INDIA
श्रम मंत्रालय
MINISTRY OF LABOUR
राष्ट्रीय व्यावसायिक प्रशिक्षण परिषद्
National Council for Vocational Training

राष्ट्रीय शिक्षुता प्रमाण-पत्र
NATIONAL APPRENTICESHIP CERTIFICATE

श्री/कुमारी/श्रीमती ..... सुपुत्र/सुपुत्री/पत्नी
Sh./Km./Smt. K. Gopi Krishna ..... son/daughter/wife of
श्री ..... को शिक्षुता अधिनियम,
Shri. K. Appa Rao ..... having received apprenticeship training
1961 के अधीन प्रतिष्ठान .....
under the Apprentices Act, 1961 at Coromandel Fertilisers
में Ltd., Visakhapatnam से ..... तक
from 03-08-1994 ..... to 03-02-1997 .....
के व्यवसाय ..... में शिक्षुता .....
in the trade of Boiler Attendant ..... and passed the prescribed
प्रशिक्षण पाने और राष्ट्रीय व्यावसायिक प्रशिक्षण परिषद् द्वारा ..... में आयोजित
trade test conducted by the National Council for Vocational
Training held in ..... November-1997 .....
निर्धारित परीक्षा में उत्तीर्ण होने पर यह राष्ट्रीय शिक्षुता प्रमाण-पत्र प्रदान किया गया।
awarded this National Apprenticeship Certificate.

प्राप्त अंक
Total marks secured 509

कुल अंक
Out of 700

सचिव
राज्य व्यावसायिक प्रशिक्षण परिषद्
Secretary
State Council for
Vocational Training
शिक्षु प्रशिक्षण/शिक्षुता सलाहकार
Deputy Director (A.P.P.)
Dept. of Employment and Training
Regional Office
21-12-09 Visakhapatnam

सचिव
राष्ट्रीय व्यावसायिक प्रशिक्षण परिषद्
Secretary
National Council for
Vocational Training

FORM – VI

ANDHRA PRADESH BOILER INSPECTION DEPARTMENT

CERTIFICATE FOR USE OF A BOILER

(Regulation 389)

10629 47/2021-22

Registry Number of Boiler: AP 6544 Type of Boiler: HMT

Boiler Rating: 44 m^2 Place and Year of Manufacture: Pune,2016

Maximum Continuous Evaporation.

Name of the Owner: **M/s. Lupin Limited;**

Situation of Boiler: Plot no:130, Road no:11, J.N.Pharmacity, Parawada, Visakhapatnam District.

Repairs:

Remarks:

Hydraulically tested on 05.07.2021 to 15.83 kgs.per square cms.

I hereby certify that the above described boiler is permitted by me/ the Director under the provisions of Sections ~~7~~/8 of the Indian Boilers Act, No. V of 1923, to be worked at a maximum pressure of 10.55 Kgs.per square cms for the period.
From 02.07.2021 to 01.07.2022.

The Loading of the DSL safety valve is not to exceed 10.55 kg/cm^2.

Fee Rs.1,500/- Paid on 05.06.2021.

Dated at Parawada.

This 05th day of July 2021.

05/07/2021

Inspector

INSPECTOR OF BOILERS
VISAKHAPATNAM CIRCLE::VISAKHAPATNAM

OFFICE OF THE INSPECTOR OF BOILERS
VISAKHAPATNAM

SPL is under DCIB, VSP
SP Line No. - .
Length: - Mts
Fee Rs. - Paid on - .

(Countersigned)

Director of Boilers

FORM VI
ANDHRA PRADESH BOILER INSPECTION DEPARTMENT
CERTIFICATE FOR USE OF A BOILER
(Regulation 389)

No.**11007**

Registry Number of Boiler **AP/6353** Type of Boiler: **HMT**

Boiler Rating: **97 m²** Place and Year of manufacture: **Pune, 2015.**

Maximum Continuous Evaporation.

Name of Owner: **M/s LUPIN LIMITED,**

Situation of Boiler: **Plot No.130, Road No.11, J N. Pharma City, Parawada(M), Visakhapatnam Dist-531019.**

Repairs:

Remarks:

Hydraulically tested on **4.9.2021** to **16** Kgs. Per Square Cms.

I hereby certify that the above described boiler is permitted by me / the Director under the provisions of Sections 7/8 of the Indian Boilers Act, No. V of 1923, to be worked at maximum pressure of **10.55** Kgs. Per Square Cms. for the period from **02.09.2021** to **01.09.2022.**

The loading of the **DSL** safety valve is not to exceed **10.55** Kg/Cm²

Fee : Rs.**2,500/-** Paid on **2.8.2021**
Dated at **Parawada**
This **4th** day of **September, 2021**

Dy.Chief Inspector Boilers
Visakhapatnam Region
Visakhapatnam

Countersigned

SP Line No.**4008** inspected
Length: **831.569** Mts.
Fee: Rs.**1300/-** Paid on **2.8.2021.**

Director of Boilers

Annexure-5
SOP No.: EHS-018

LUPIN

TRANSPORT EMERGENCY (TREM) CARD

FORM-9, See Rule 18 (2)

(To be carried by the transporter during transportation of hazardous wastes provided by the Occupier or opretor of the Facility)

1. Characteristics of Waste:

S.No	Type of Waste	Physical Properties	Chemical Constituents	Exposure Hazards	Con. First Aid Requirements

2. Procedure to be followed in case of fire:

3. Procedure to be followed in case of spillage/ accidents/ explosion:

4. For Expert Services, Please contact: **Ambulance: 108** **Police: 100** **Fire: 101**

(i) Company Name and Address: **Lupin Limited, Plot No: 130, Road No:11, JNPC, Parawada, Visakhapatnam-531019, Andhra Pradesh**

(ii) Telephone No.: **08924 288971,08924 288999**

(Name, Contact number and Signature of sender with Stamp)

Date:
Place:

MUTUALLY AIDED SOCIETY FOR RISK MITIGATION

Jawaharlal Nehru Pharma City, Prawada, Visakhapatnam-531 021.
Regd. No. 436 of 2016
Email : masrm.jnpc@gmail.com Phone : +91 63014 99442

Certificate of Membership

This is to certify that M/s. Lupin Limited

Plot No : 130 *Jawaharlal Nehru Pharma City, Parawada, Visakhapatnam.*

is a Member of Mutually Aided Society for Risk Mitigation with Membership No. MASRM/055/20

Date : 05/09/2020

Place : Visakhapatnam.

M.Sivarama Prasad
(President)

Jetti Subba Rao
(Secretary)

O/C

LUPIN LIMITED
Plot No. 130, Road No. 11, Jawaharlal Nehru Pharma City
Parawada (M), Visakhapatnam - 531 019
Tel: +91-8924-288999
Fax: +91-8924-288811

Ltr No: LUPIN/VIZAG/EHS/18-19/016

10th July 2021

To

The Deputy Chief Inspector of Factories
D.No.50-50-35/8,
Gurucharan Marg,
Seethammmadhara,
Visakhapatnam-13,

Dear Sir,

Sub: Submission of safety committee meeting minutes – reg.

Here with we are submitting the safety committee meeting minutes held in the month of June-2021.

We are requesting your good selves to acknowledge the receipt of the same.

Thanking you,

Yours truly,
for **LUPIN Ltd.,**

Abhijeet Shinde
Site Head & General Manager - Manufacturing

Encl: - MOM safety committee meeting.

Received
12.07.2021.

LUPIN

SAFETY COMMITTEE MEETING MINUTES

Meeting No.: 02 | **Held on:25/06/2021**

S. No	Observations	Corrective Action	Person Responsible	Target Date
1	Spent Solvent barrels accumulated in and around MPP-1, MPP-2 and Onco block	1. Spent solvent barrels' inventory (solvent wise & quantity Wise) shall be prepared. 2. All the spent solvents drums shall be disposed.	G. Ananda Rao	30.06.2021 31.07.2021
2	Rain water is getting accumulated in contractors fabrication shed.	1. Proposal shall be made and layout shall be prepared for contractors shed. 2. Shed shall be constructed	N. Ravi Kumar, T. Narayana Rao Pankaj	30.03.2022
3	Existing assembling point to be shifted in front of MPP1	1. Proposal shall be made for new assembling point. 2. Based on proposal new assembling point shall be arranged.	Ravi Meesala, T. Narayana Rao N. Ravi Kumar	30.07.2021
5	Tools inspection procedure to be developed	1. All the power tools, tools and ladders shall be checked and certified monthly. 2. Guideline shall be prepared for inspection of working tools and platforms	T. Narayana Rao	20.07.2021
6	Rainwater is being leaked into drum storage shed and cylinder storage shed	Provision shall be made to stop the leakage of rain water	N. Ravi Kumar	20.07.2021
7	During rainy season false ceiling of engineering office is getting wet and there is chance of fall	1. False ceiling shall be replaced with walkable false ceiling. 2. Other areas shall be identified and ceilings shall be changed to walkable false ceilings	N. Rai Kumar	15.07.2021 30.09.2021

Secretary - EHS Committee

Chairman - EHS Committee

CC to: All Committee Members

CIRCULAR

Date: 01.03.2021

To: All

Through: Site Head & G.M-Manufacturing

Sub: 50th National Safety Day/Week Celebrations from 04.03.2021 to 10.03.2021.

You are all aware that every year "National Safety Day" is being celebrated on 4th March.

In the view of **50th National Safety Day on March 4th 2021**, we are conducting safety week celebrations from **04.03.2021 to 11.03.2021**.

The detailed safety week celebrations schedule as follows:

Date	Day	Name of the Competition	Time	Target Group
04/03/2021	1	National safety council flag hoisting & Safety day/week celebrations briefing	09:30 hrs	All
05/03/2021	2	PPE competition	10:00 hrs	Contract employees
		Safety Charades	14:00 hrs	Employees
		Spot the Hazard	15:00 hrs	Employees & Contract employees
06/03/2021	3	Safety slogans submission	11:00 hrs	Employees & Contract employees
		Scavenger hunt	15:00 hrs	Employees
07/03/2021	4	Essay writing Competition	10:00 hrs	Employees Children
		Elocution Competition	11:00 hrs	Employees Children
		Safety poster	11:30 hrs	Employees children
08/03/2021	5	Safety quiz	14:30 hrs	Employees
09/03/2021	6	Two minute talk on safety (any language)	10:00 hrs	Contract employees
		Safety Poster	11.00 hrs	Employees & Contract employees
		Fire Drill	14:30 hrs	Employees & Contract employees
10/03/2021	7	Safety quiz	14:30 hrs	Contract workers
11/03/2021	8	Skits	14.30 hrs (Tentative)	Employees
11/03/2021	9	Closing ceremony and prize distribution	14.30 to 17.30 (Tentative)	All

Hence, all the employees are requested to actively participate in the above competitions and make the Safety Week a grand success.

Theme for national safety day/week campaign 2021"

"LEARN FROM DISASTER AND PREPARE FOR A SAFER FUTURE"

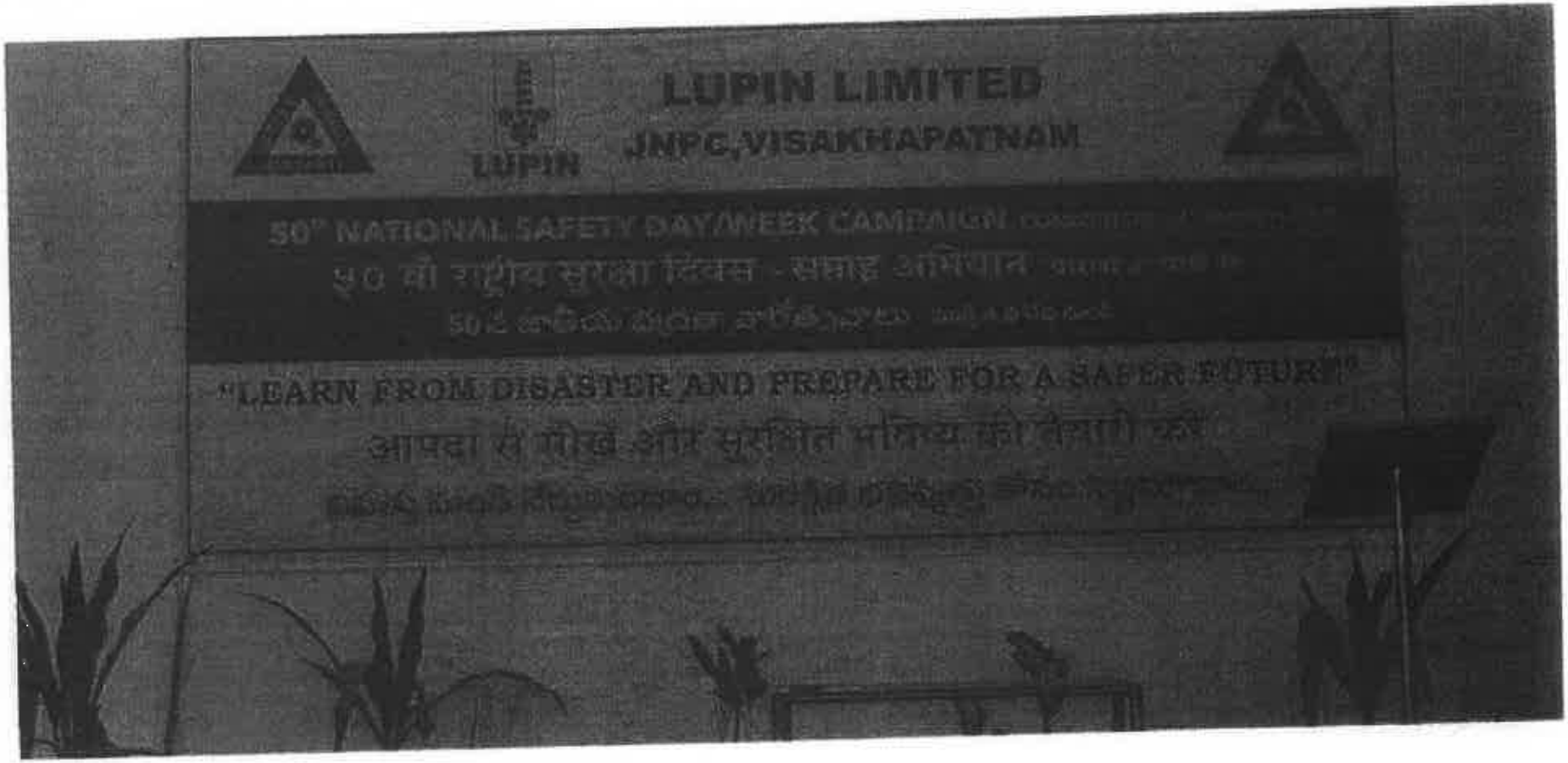
EHS Head:

Site Head:

LUPIN

50TH NATIONAL SAFETY DAY/ WEEK CELEBRATIONS - 2021

VISAKHAPATNAM



Safety Day Celebrations 2021 – Opening Ceremony

Flag Hosting

O/C

LUPIN LIMITED
Plot No. 130, Road No. 11, Jawaharlal Nehru Pharma City
Parawada (M), Visakhapatnam - 531 019
Tel: +91-8924-288999
Fax: +91-8924-288811

LUPIN

Ltr No: LUPIN/VIZAG/EHS/20-21/015

10th July 2021

To

The Deputy Chief Inspector of Factories
D.No.50-50-35/8,
Gurucharan Marg,
Seethammmadhara,
Visakhapatnam-13,

Dear Sir,

Sub: Submission of Mock Drill Report – reg.

Here with we are submitting the "Mock Drill Report", conducted in G Shift Third Saturday (week-off) on 19/06/2021 in our site.

Kindly find the attached report and acknowledge the receipt of the same.

Thanking you,

Yours truly,
for **LUPIN Ltd.,**

Abhijeet Shinde
Site Head & General Manager - Manufacturing

Encl:- Mock drill report

Received
16.07.2021

Annexure-3
GL.NO. EHS/EPAR/022/A3.02

LUPIN	MOCK DRILL REPORT

1. **Mock Drill Scenario** : Boiler Explosion
2. **Type of mock drill** : Emergency action in case of Explosion resulting fire
3. **Date of Mock drill** : 19/06/2021
4. **Time of Mock Drill** : 11.46 hrs.
5. **Drill Scope, Purpose** : To evaluate the emergency preparedness and checking the effectiveness of the emergency equipment and ERT members competency levels
6. **Total Head Count** : 232 (Employees: 63, Contract Casuals: 169)
7. **Expected drill response:** To complete the drill satisfactorily

S. No	Time	Response Action	Satisfactory / Not satisfactory	Remarks
1.	11.46	Boiler operator MR. Nagaraju heard huge sound in boiler house.	--	
2.	11.46	He observed there was explosion of boiler, where Ch. Kiran, another boiler operator found unconscious on the floor.	--	
3.	11.48	Immediately Mr. Nagaraju rescued the person and activated the MCP.	Satisfactory	
4.	11.48	Mr. Nagaraju informed to Security, Mr. Srinu swamy, who is the utility in charge & incident controller.	Satisfactory	
5.	11.48	Upon hearing alert from MCP, ERT members alerted and reached to ECC and few ERT members, who are working nearby area reached to incident spot. Meanwhile Security team informed to site controller Mr. Mohanty regarding the incident and also informed to OHC.	Satisfactory	
6.	11.49	Site controller Mr. Mohanty reached ECC and started giving instructions to ERT members and incident controller to control the situation.	Satisfactory	
7.	11.50	Ambulance reached to location and victim was shifted to OHC.	Satisfactory	
8.	11.50	Fire hose reels were laid and ERT members started fire fighting	Satisfactory	

LUPIN	MOCK DRILL REPORT

	11:51	Site controller Mr. Mohanty gave instruction to security person to raise the emergency alarm as the situation was not controlled.	Satisfactory	
9.	11.51	Upon hearing emergency siren, all employees were started evacuating from their area to assembly point.	Satisfactory	
10.	11.54	Fire was suppressed by ERT members and the same was informed to site controller Mr. Mohanty by Incident controller Mr. Srinu Swami.	Satisfactory	
11.	11.57	Site controller Mr. Mohanty visited the incident location and found the situation came in control.	Satisfactory	
12.	11.57	All the persons were gathered near assembling point	Satisfactory	
13.	12.00	Head count was taken by security guards.	Satisfactory	
14.	12.02	Gathering was addressed by Site controller Mr. Mohanty and EHS manager Mr. Narayana Rao	Satisfactory	
15.	12.06	All clear siren was given to declare the emergency was cleared.	Satisfactory	

8. Immediate Actions taken on observations:

S. No.	Observation	Responsibility	Remarks
1.	ERT member's movement was slow during rescue and first aid of victim.	EHS	Training will be given to ERT employees
2.	Stretcher not used while shifting victim into ambulance.	EHS	Training will be given on importance of barrication
3.	Project people gathered near incident location while evacuating.	Security	Training given to project people

Annexure-1
GL No: EHS/EHS IA/020/A1.01

LUPIN

EHS INTERNAL AUDIT SCHEDULE

S. No	Name of the Dept./ Section	Date & Time of Audit	Auditors	Auditees	Remarks
1.	Production	23/02/2021 & 14.00	M. Bala Krishna V. Venkateswara Rao	G. Ananda Rao	--
2.	QC & PDL	24/02/2021 & 11.00	Pankaj Singla D. Suresh	M.E. Naidu V. Venkateswara Rao	--
3.	Ware House	25/02/2021 & 16.00	N. Ravi Kumar M.E. Naidu	M. Bala Krishna	--
4.	Engineering	26/02/2021 & 15.00	M. Bala Krishna T. Narayana Rao	N. Ravi Kumar	--
5.	EHS	27/02/2021 & 1.00	G. Ananda Rao M. Ravi	T. Narayana Rao	--

Prepared by:

Approved by Head EHS:

Team involved to carry out HAZOP study –

Department	Team Member	Designation	Signature
Production–	V Ram Sudheer	Sr. Executive	08/06/21
Technology Transfer	Ramesh Babu	Sr. Executive	10/06/21
PD Lab. / R&D –	Satish Meher	Sr. Executive	10/06/21
Engineering	Sunil Yadav	Sr. Executive	11/06/2021
Safety	Raghavendra M	Executive	12/06/21

Team involved to review HAZOP study –

Department	Team Member	Designation	Signature
Technology Transfer	Rakesh Ranjan	Manager	12/06/2021
PD Lab. / R&D –	V Venkateswararao	Manager	10/06/21
Production	G Ananda Rao	Manager	10/06/2021
Engineering	N Ravi Kumar	Sr. Manager	10/06/21
Safety	T Narayana Rao	Manager	14/06/2021

Approved by	
Signature –	
Name –	Abhijeet Shinde
Designation –	Site Head& GM-Manufacturing
Date –	

Comment from Unit head
Batches can be executed. Ensure compliance of Hazop recommendations.

Accident Investigation Report (LTI)

Lupin – Vizag

Investigation Team:

Sl No	Name	Designation
1	Abhijeet Shinde	Site Head & GM
2	T. Narayana Rao	Manager, EHS
3	Ravi kumar N	Head Engineering
4	Ananad	Head Produciton
5	Kaushik	Executive - Projects

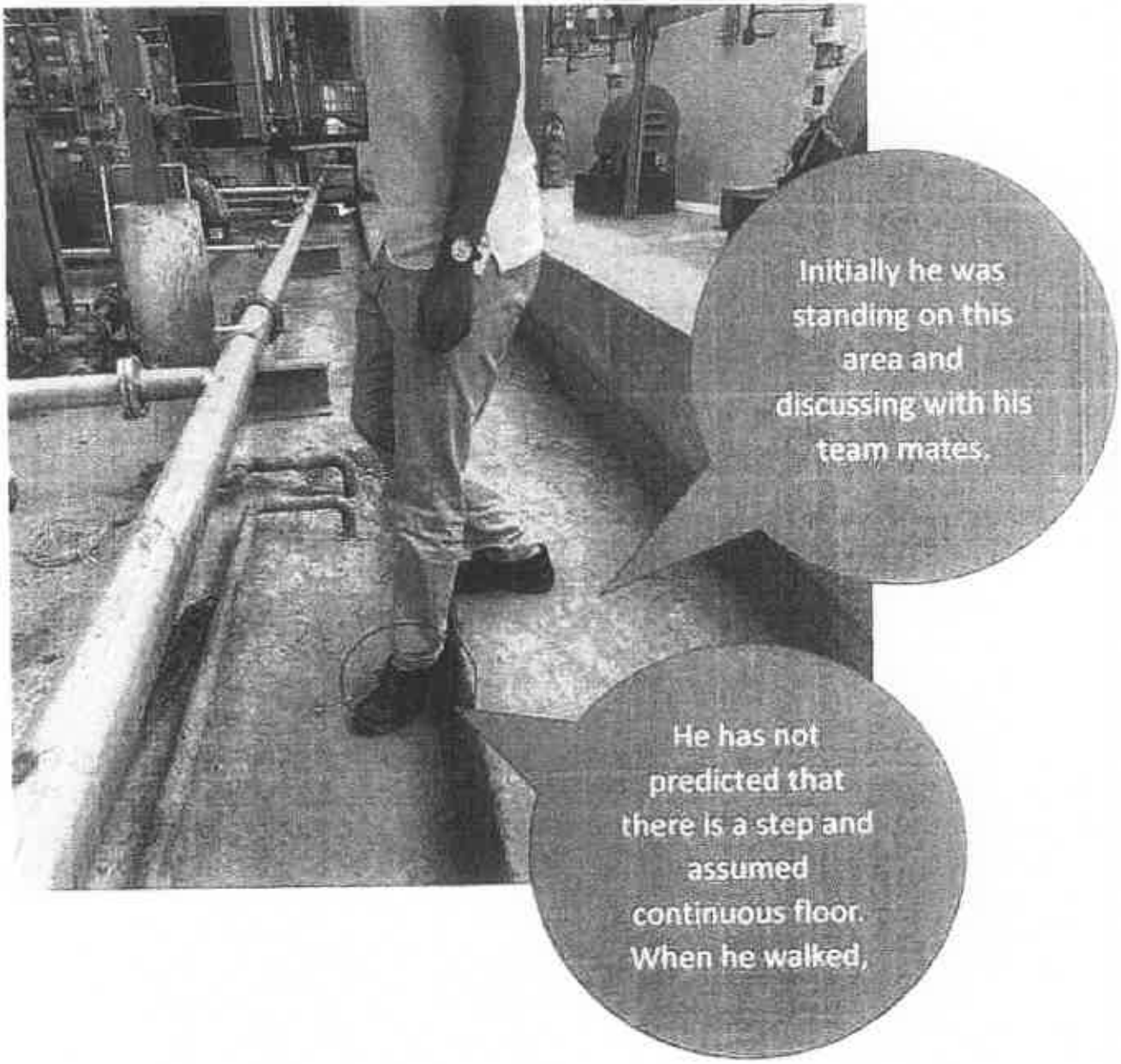
Description of the accident:

On 21.05.2021 after noon at around 15:30 Hrs, Project Employee Mr. Pankaj Signla got injured while taking rounds in the ongoing project area at MPP1 production block ML tank area. While walking, suddenly his foot got twisted, resulted sprain and reported to OHC where first aid was given.

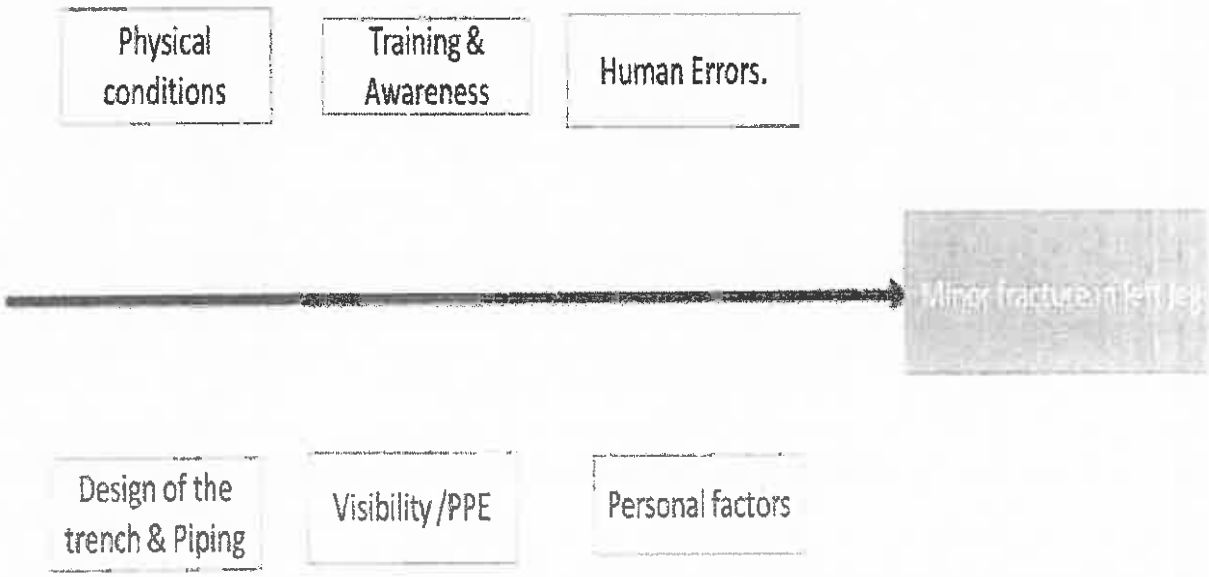
Because of swelling he got X ray for his leg and found minor fracture in lower 3rd fibula of the left leg. He informed the same on the next day i.e. 22.05.2021.

Currently he was under medication as suggested by the doctor.

Pictorial display of the Accident:



Minor leg fracture injury - Analysis



Analysis of causes

Sl. No	Cause	Analysis	Remarks
1.	Human error	Human errors while walking also can result injury. On analysis The person was not predict that there was a step and assumed that it was continuous floor. Also he was walking while discussing with team members. Due to this his foot was twisted resulted minor fracture injury.	This can be a probable cause.
2	Personal factors	The first one is the employee is having weight of almost 103 kgs. When his foot twisted the whole body weight got accumulated and resulted the fracture. More weight may also caused the injury. The second one is the employee is not wearing safety shoe since last 6 years as he is getting frequent infection because of the toe. He got the medical certificate for the same and submitted to FMO.	This can be a probable cause

3	Physical conditions	Pathway was not constructed completely as the project modification is under progress. The employee is wearing mask, specks and face shield as part of COVID precautions, which hindered the visibility and unable to anticipated properly.	This can be a probable cause
4.	Training and awareness	The person was working in lupin since 2007 and in vizag since 2015. He knows all the practices, procedures beginning from the plant.	This cannot be a probable cause.
5	Design of the trench and piping	Earlier this step is not available but now it was created to walk for day to day operations in the ML tank area. However continuous platform to be ensured for safe walking.	This can be a probable cause.

CAPA :

Probable cause	Action Plan	Responsible person	Target Date
Physical conditions	1. Temporary platform to be provided in front of emergency exits and regular movement area. 2. Proper complete walkable Platform to be ensured on the pipelines with proper steps wherever required. Hand railing to be provided to tank form motor dyke area.	Bhaskar Amara	30.06.2021
Human error	3Training to be provided to the employee and all the project workers on Hazard awareness while doing project works.	T. Narayana Rao	30.06.2021
Personal conditions	4.Fiber toe safety shoes to be provided to the employee	T. Narayana Rao	30.06.2021

Appendix – 2
SOP No.:EHS-011

LUPIN	EHS Training Evaluation

Name of the Employee	Nagaraju
Employee code	–
Department	G.C
Date of Training	10/08/2021
Topic of the Training	Induction training
Trainer	K. Srinivas Rao

Please tick (√) the option which is correct

1) What are the causes of accident?

a. Unsafe conditions ☐ b.Unsafe activities ☐ c. Both A & B ☑ d. either A or B ☐

2) Fire classified into how many categories?

a. 1 ☐ b. 2 ☐ c. 4 ☑ d. 5 ☐

3) Wood fire comes under which class of fire?

a. Class A ☑ b. Class B ☐ c. Class C ☐ d. Class D ☐

4) Electrical fire comes under which class of fire?

a. Class A ☐ b. Class B ☐ c. Class C ☑ d. Class D ☐

5) Mechanical foam fire extinguisher can be used for which class of fires?

a. Class A ☑ b. Class B ☑ c. Class C ☐ d. Class D ☐

6) How many sections are there in MSDS?

a. 2 sections ☐ b. 4 sections ☐ c. sections 14 ☐ d. sections 16 ☑

7) How many number of work permits are there in LUPIN?

a. 3 permits ☐ b. 5 permits ☐ c. 6 permits ☐ d. 8 permits ☑

8) Spill control measures are present in which section of MSDS?

a. Section 4 ☐ b. Section 6 ☐ c. Section 8 ☑ d. Section 10 ☐

9) What is the limit of oxygen % required for confined space entry?

a. 5-6% ☐ b.6-7% ☐ c.10-14% ☐ d. 19.5 – 20.9 % ☑

10) Types of respiratory protection system?

a. Air purified ☐ b. Air supplied ☐ c. Both A & B ☑ d. Either A or B ☐

LUPIN

EHS Training Evaluation

11) What is the minimum height required for height work permit?

a. 2 feets ☐ b. 4 feets ☐ c. 6 feets ☑ d. 8 feets ☐

12) Speed limit for vehicles in company premises?

a. 5 kmph ☐ b. 10 kmph ☐ c. 15 kmph ☑ d. 20 kmph ☐

13) What is the regular pressure maintained in fire hydrant system?

a. 4 kg/cm2 ☐ b. 5 kg/cm2 ☐ c. 6 kg/cm2 ☐ d. 7 kg/cm2 ☑

14) Write the different types of fire extinguishers?

water type
foam type
powder type
Gas type

15) What is confined space entry?

A man Entered in limited space or one Entry and one Exit is called Confined Space Entry

Ex:- reactors manholes tanks

Trainee's Signature	
Total Evaluation Marks	15 marks
Qualification Marks	15 marks
Marks Obtained	15 marks
Requirement of Retraining	—
Evaluated by	

Annexure-1
SOP No.:EHS-011

LUPIN

EHS Induction Training for New Employees

Name of the Employee: T. Nagarjun	Employee Code:
Department: Q.C	Date of Joining: 05.08.2021

S. No.	Content	Training Imparted	Not Required
1	EHS policy and their responsibilities accordingly.	✓	
2	General Safety Rules	✓	
3	Hazardous category of Chemicals and their Symbols.	✓	
4	Physical and Health Hazards of Chemicals.	✓	
5	Material Safety Data Sheets (MSDS).	✓	
6	Different types of PPE and their applications.	✓	
7	Types of Fires, Extinguishers and their applications.	✓	
8	Incident Reporting.	✓	
9	Spill Response and Waste disposal Procedures.	✓	
10	Good Housekeeping Practices.	✓	
11	Use of Compressed Gas Cylinders.	✓	
12	Fire Alarm and Fire Hydrant Systems	✓	
13	Work Permit System	✓	
14	Emergency Preparedness and Response.	✓	
15	Electrical safety and prevention of Electrostatic hazards.	✓	
16	Location of the following (which are nearest) and usage procedures of each ➢ Fire Extinguisher, Fire Blanket and Fire Hydrants ➢ Eye Wash, Safety shower ➢ Spill Cleanup Kit ➢ Manual Call Point, Emergency Siren ➢ First aid Boxes and Antidote kits ➢ Emergency Control Centre ➢ Assembly Points, Wind Socks	✓	
17	Safety related Manuals, Bulletins and Procedures given.	✓	
18	Sent for rounding the plant along with EHS personnel to know all the safety equipments and its Locations.	✓	
19	Effectiveness of training is assessed at the end of the section (Oral).	✓	

I understood all the above precautions	**Trainee Sign:**
Explained all the above topics briefly and assessed the effectiveness of the training orally and further permitted to take up his allotted works.	**Trainer Sign:**

Annexure- 4
GL.No.EHS/ET/011/A4.01

LUPIN

EHS Training Record

Purpose of Training	Scheduled ( ) Unscheduled ( ) Others ( )
Name of the Topic	
Name of the Trainer	Induction Training
Date & Duration of Training(From-To)	10/8/2021, 11:45 to 13:15
Reference SOP/ Document No.	

S. No.	Name of Employee Trained	Employee Code	Department	Designation	Signature
01	Thangarjan		Q.C	Executive	

1. As indicated by my signature, I have understood the specified topic training course imparted to me.
2. I have demonstrated to the satisfaction of my trainer that I have understood the specified topic and responsibilities covered in the training session and capable of implementing them in a manner consistent with the regulation and policy of the company.

Signature of Trainer:		**Date:**	10/8/2021
Co-ordinated By:		**Date:**	

LUPIN LIMITED

TRAINING PLANNER/CALENDAR FOR YEAR 2021: Employees

S.No.	Training Programme	MONTH											
		Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	Behaviour Based Safety (WBT/IHT)	√											√
2	Laboratory Safety Glass ware handling (WBT/IHT)			√									√
3	MSDS Training (WBT/IHT)		√										
4	Chemical Reactivity Hazards (WBT/IHT)		√										
5	Bio Medical Waste (WBT/IHT)							√					
6	Emergency preparedness (operation of hydrant system) (WBT/IHT)				√								
7	Fire and Explosions (WBT/IHT)								√	√			
8	Process Safety Management (Standard Based Approach) (WBT/IHT)				√							√	
9	Selection and Usage of PPE (WBT/IHT)					√							
10	Work Permit System (WBT/IHT)						√						
11	Fundamentals of Thermal Process Safety (WBT/IHT)					√				√			
12	Laboratory safety (WBT/IHT)										√		
13	MSDS training (WBT/IHT)						√						
14	Handling of compressed gas cylinders (WBT/IHT)											√	
15	Solvent Handling Operations (WBT/IHT)										√		
16	Fork Lift Safety (WBT/IHT)		√					√					
17	Emergency response training/ Fire fighting (WBT/IHT)				√					√			
18	Fundamentals of static Electricity and Controlling Static Electricity (WBT/IHT)			√					√				
19	Onsite Emergency Plan (WBT/IHT)			√							√		

Prepared by: 31/03/21

Approved by:

LUPIN – VIZAG
LIST OF EMERGENCY RESPONSE TEAM

LUPIN

S.NO	EMP.NO	EMP NAME	DEPARTMENT	DESIGNATION
1.	235320	Krishna Murthy J	Production	Executive
2.	233369	Satya Rao D	Production	Jr. officer
3.	235662	Naveen Nandipalli	Production	Jr.officer
4.	235640	S.Chandra sekhar	Production	Officer
5.	234255	J Nagarjuna	Production	Officer
6.	220015	V. Ram sudheer	Production	Executive
7.	217470	Veerababu	Production	Executive
8.	236257	Sanyasi Naidu Mahanthi	Production	Executive
9.	226441	Thilak Bommaraju	Production	Officer
10.	232960	Apparao Bandi	Production	Officer
11.	233455	U.Lokanadham	Production	Officer
12.	232958	U Kurma Rao	Production	Officer
13.	234716	P. Mahalakshmi Naidu	Production	officer
14.	227670	Vijay kanaparthy	Production	Executive
15.	40004269	Surinaidu	Production	Officer
16.	231608	Suvarna Raju	Production	Executive
17.	40001527	V Sobhan Rao	Production	Officer
18.	235550	Madhu babu cheruku	Production	Officer
19.	229195	Khadar Basha shaik	Production	Officer
20.	240169	M.Hari Krishna	Production	Executive
21.	235371	R.Manoj	Engineering	Executive
22.	232855	R.Vasudeva rao	Engineering	Officer
23.	233373	Chinnam Naidu Mittireddy	Engineering	Officer
24.	236421	G.Vykuntapani	Engineering	Jr.officer
25.	233300	J.Ramesh	Warehouse	Executive
26.	232418	Ratnagiri Battula	Warehouse	Officer

LUPIN – VIZAG
LIST OF EMERGENCY RESPONSE TEAM

27.	217340	Rambabu padala	PDL	Executive
28.	233376	S Venkata sasidhar	Admin	Executive
29.	214872	Raghu Prasad Tatiparthi	QC	Executive
30.	237547	Avatharam Allu	QC	Executive

Prepared By: M. Pavan

Reviewed By:

Annexure – 3
GL.No.: EHS/OHC/029/A3.01

LUPIN

LIST OF FIRST AID BOXES

S.No.	ID No.	Location
01	VZFAB -001	MPP -1
02	VZFAB -002	UTILITY.
03.	VZFAB -003.	BOILER.
04	VZFAB -004	PCC
05	VZFAB -005	GATE -2
06.	VZFAB -006	ADMIN
07	VZFAB -007	PD Lab.
08	VZFAB -008	QC
09	VZFAB -009	GATE -1
10	VZFAB -010	Ware House.
11	VZFAB -011	MPP-2
12	VZFAB -012	PD Lab-3 (Oncology)
13.	VZFAB -013.	OHC
14.	VZFAB -014	SRU
15.	VZFAB -015	MPP-2A

Prepared By: 05/02/24

Checked By: 5/2/24

PD Lab-3 items replaced

Annexure -4
GL.No.: EHS/OHC/029/A4.01

02

LUPIN

FIRST AID BOX CHECKING & REFILLING DETAILS RECORD IN BLOCKS

ID No: V2FAB-002 Location: UTILITY- Date: 06/08/2021.

S. No:	Name of the Item	qty	Expiry Date	Available qty	Replaced content details
1	Betadine solution	01 No	02/22	✓	—
2	Soframycin ointment	01 No	11/21	✓	—
3	Heal burn ointment	01 No	02/22	✓	—
4	Roller Bandages	04 No	02/22	✓	—
5	Cotton	01 No	02/22	✓	—
6	Medi Strips / Band aid	05 No	10/23	✓	—
7	Sterile Dressing Pad	04 No	2/22	✓	—
8	Tobramycin / Ciprofloxacin eye drops	01 No	02/22	✓	—
9	Hand gloves	02 Pairs	—	✓	—
10	Scissor	01 No	—	✓	—

Checked By:

6/8/21

Verified By:

List of Eye wash/Body showers

S.No	ID No	Location	Remarks
1	VZEWBS-001	MPP-1; ML tank	
2	VZEWBS-002	MPP-1; Day tank	
3	VZEWBS-003	MPP-1; Near B stream PP area	
4	VZEWBS-004	MPP-1; B-Stream GF	
5	VZEWBS-005	MPP-1; C-Stream GF	
6	VZEWBS-006	MPP-1; C-Stream emergency exit	
7	VZEWBS-007	MPP-1; A-Stream GF	
8	VZEWBS-008	MPP-1; B-Stream FF	
9	VZEWBS-009	MPP-1; A-Stream FF	
10	VZEWBS-010	MPP-1; Terrace	
11	VZEWBS-011	MPP-1;A-Stream, PP area wash room	
12	VZEWBS-012	Utility Block	
13	VZEWBS-013	Boiler house	
14	VZEWBS-014	Non-CCOE TANKS	
15	VZEWBS-015	QC	
16	VZEWBS-016	ETP	
17	VZEWBS-017	Ware house; wash room	
18	VZEWBS-018	CCOE TANKS	
19	VZEWBS-019	Hydrogenation block ;G/F corridor	
20	VZEWBS-020	Hydrogenation block; F/F corridor	
21	VZEWBS-021	MPP2; ML tank area	
22	VZEWBS-022	MPP-2;G/F corridor	
23	VZEWBS-023	MPP-2;F/F corridor	
24	VZEWBS-024	MPP-2; terrace	
25	VZEWBS-025	MPP-2 ;Day tank area	
26	VZEWBS-026	OHC ;out side	
27	VZEWBS-027	MPP-1;C-Stream F/F	
28	VZEWBS-028	MPP-1;C-Stream pp-area	
29	VZEWBS-029	WARE HOUSE; out side	
30	VZEWBS-030	SRU; G/F corridor	
31	VZEWBS-031	SRU; out side	
32	VZEWBS-032	SRU;F/F corridor	
33	VZEWBS-033	MPP-1;B-Stream pp-area wash room	
34	VZEWBS-034	MPP-1;Spary dryer wash room	

35	VZEWBS-035	MPP-1;Micronization-1,wash room	
36	VZEWBS-036	MPP-1;Micronization-2,wash room	
37	VZEWBS-037	MPP-2;PP-area,wash room	
38	VZEWBS-038	MPP-1, A-stream PP area technical area	
39	VZEWBS-39	Ware house drums storage area	
40	VZEWBS-040	Onco micro out side	
41	VZEWBS-041	MPP-2A G/F out side	
42	VZEWBS-042	MPP-2A ;F/F AHU area	
43	VZEWBS-043	MPP-2A G/F , PP area wash room	

List of MCP

S.NO	MCP ID	BLOCK	LOCATION	
1	MCP-01	MPP-1	G/F;Day tank farm MCP-1	
2	MCP-02	MPP-1	F/F;C-Stream emergency exit MCP-2	
3	MCP-03	MPP-1	F/F;C-Stream mezzenine floor MCP-3	
4	MCP-04	MPP-1	F/F;Near filter wash area MCP-4	
5	MCP-05	MPP-1	PP-Area G/F;C-Stream stair case MCP-6	
6	MCP-06	MPP-1	PP-Area F/F;C-Stream stair case MCP-5	
7	MCP-07	MPP-1	G/F;C-Stream emergence exit MCP-7	
8	MCP-08	MPP-1	G/F;A,B Entrance near hoist MCP-8	
9	MCP-09	MPP-1	G/F;A-Stream emergency exit MCP-9	
10	MCP-10	MPP-1	G/F;B-Stream stair case-3 MCP-10	
11	MCP-11	MPP-1	PP-Area G/F;B-Stream corridor VTD room MCP-11	
12	MCP-12	MPP-1	G/F;A-Stream corridor MCP-12	
13	MCP-13	MPP-1	G/F;A-Stream opp-Centrifuge room MCP-13	
14	MCP-14	MPP-1	G/F;B-Stream near RVPD room MCP-14	
15	MCP-15	MPP-1	G/F;C-Stream emergence exit MCP-15	
16	MCP-16	MPP-1	F/F;C-Stream corridor opp-Reactor MCP-16	
17	MCP-17	MPP-1	F/F;B-Stream near VZ1 HTRE 09 MCP-17	
18	MCP-18	MPP-1	F/F;Stair case-4 entrance MCP-18	
19	MCP-19	MPP-1	8.5 mtr Mezzenine floor corridor MCP-19	
20	MCP-20	MPP-1	F/F;A-Stream near manager room MCP-20	
21	MCP-21	MPP-1	F/F;A-Stream RM store 2 MCP-21	
22	MCP-22	MPP-1	F/F;B-Stream emergency exit stair MCP-22	
23	MCP-23	MPP-1	F/F;B-Stream emergency exit stair case 5 MCP-23	
24	MCP-24	MPP-1	S/F;Stair case-4 near hoist MCP-24	
25	MCP-25	MPP-1	S/F;B-Stream opp-Micronizer room MCP-25	
26	MCP-26	MPP-1	S/F;C-Stream opp-Spray dryer room MCP-26	
27	MCP-27	MPP-2	G/F;Intermidiate ENT near hoist MCP-1	
28	MCP-28	MPP-2	G/F;Intermidiate corridor near CNTFG MCP-2	
29	MCP-29	MPP-2	G/F;Intermidiate ENT near emergency exit MCP-3	
30	MCP-30	MPP-2	F/F;Intermidiate entrance MCP-4	
31	MCP-31	MPP-2	F/F;Intermidiate Reactor area MCP-5	
32	MCP-32	MPP-2	F/F;Intermidiate AHU emergency exit MCP-6	
33	MCP-33	MPP-2	F/F;Intermidiate AHU area MCP-7	
34	MCP-34	MPP-2	F/F;M/F Intermidiate MCP-8	
35	MCP-35	MPP-2	G/F;PP-area emergency exit MCP-9	
36	MCP-36	MPP-2	F/F;Reactor bottom area MCP-10	
37	MCP-37	MPP-2	G/F;PP-area entrance MCP-11	
38	MCP-38	UTILITY	F/F;Utility MCP	
39	MCP-39	HYDROGANATION	G/F;Entrance MCP-1	
40	MCP-40	HYDROGANATION	G/F;Emergancy exit MCP-2	
41	MCP-41	HYDROGANATION	G/F;Corridor ending MCP-3	
42	MCP-42	HYDROGANATION	F/F;Stair case-1 entry MCP-4	
43	MCP-43	HYDROGANATION	F/F;Stair case MCP-5	
44	MCP-44	WARE HOUSE	F/F;AHU MCP-1	
45	MCP-45	WARE HOUSE	G/F;Men entry MCP-2	
46	MCP-46	WARE HOUSE	G/F;Opp-RM dispensing room MCP-3	
47	MCP-47	WARE HOUSE	G/F;Material entry MCP-4	

48	MCP-48	PCC	Pcc exit mcp-2	
49	MCP-49	PCC	Pcc mcp-1	
50	MCP-50	OHC Block	Safety engineering office mcp	
51	MCP-51	OHC Block	Training room	
52	MCP-52	OHC Block	OHC room entrance mcp	
53	MCP-53	UTILITY	G/F;MCC room entry MCP-1	
54	MCP-54	UTILITY	G/F;MCC room exit MCP-2	
55	MCP-55	BOILER	Boiler mcp	
56	MCP-56	CANTEEN-2	Contractor canteen MCP-1	
57	MCP-57	SECURITY GATE-2	Security-2 MCP-1	
58	MCP-58	SECURITY GATE-1	Security-1 MCP-1	
59	MCP-59	ADMIN	G/F;Corridor MCP-1	
60	MCP-60	ADMIN	G/F;Near stair case MCP-2	
61	MCP-61	ADMIN	F/F;Near stair case MCP-3	
62	MCP-62	CANTEEN-1	Staff canteen dinning entrance MCP	
63	MCP-63	Qc	Qc Lab Corridor	
64	MCP-64	Sru	SRU G/F; Entrance	
65	MCP-65	Sru	SRU F/F; Corridor	
66	MCP-66	MPP-2A	MPP-2A AHU Area	
67	MCP-67	MPP-2A	MPP-2A technical Area	
68	MCP-68	MPP-2A	MPP-2A RVD Blender Room	
69	MCP-69	MPP-2A	MPP-2A Corridor Emergency Exit	
70	MCP-70	MPP-2A	MPP-2A Centrifuge Area	
71	MCP-71	MPP-2A	MPP-2A Reactor Area	
72	MCP-72	MPP-2A	MPP-2A Reactor Area	
73	MCP-73	Warehouse	New Drum Shed	
74	MCP-74	Warehouse	New Drum Shed	

Reliable Fire & Safety Services	JULY -2021,Fire Extinguisher Monthly Checklist - Lupin Limited, JNPC

Checked on: JULY - 2021							Due on: AUGUST- 2021								
FE No.	Type and Capacity	Location	Safety clip/pin	Disch. hose	Horn/ Squ. grip/ Air induction nozzle	Wheel valve/ Plunger	Handle	Union cap	Wheels	Pressure gauge	Hanging hook	Body Condition	Label	Any obstructions to the FE	Remarks
FE-001	CO2/4.5kgs	Admin Server Room	√	√	√	√	√	--	---	---	√	OK	OK	NO	--
FE-002	CO2/2 kgs	Admin Corridor	√	--	√	√	√	--	---	---	√	OK	OK	NO	--
FE-003	CO2/2 kgs	Admin Corridor	√	--	√	√	√	--	---	---	√	OK	OK	NO	--
FE-004	CO2/2 kgs	Admin Work Station	√	--	√	√	√	--	---	---	√	OK	OK	NO	--
FE-005	CO2/4.5kgs	Admin Pantry	√	√	√	√	√	--	---	---	√	OK	OK	NO	--
FE-006	CO2/4.5kgs	Admin AHU Room-GF	√	√	√	√	√	--	---	---	√	OK	OK	NO	--
FE-007	CO2/4.5kgs	Admin AHU Room-FF	√	√	√	√	√	--	---	---	√	OK	OK	NO	---
FE-008	CO2/4.5kgs	Admin AHU Room-FF	√	√	√	√	√	--	---	---	√	OK	OK	NO	---
FE-009	CO2/2 kgs	EHS Office	√	--	√	√	√	--	---	---	√	OK	OK	NO	--
FE-010	CO2/2 kgs	EHS Office	√	--	√	√	√	--	---	---	√	OK	OK	NO	--
FE-011	CO2/2 kgs	OHC Room	√	--	√	√	√	--	---	---	√	OK	OK	NO	--
FE-012	ABC/9 kgs	QC Entrance	√	√	√	√	√	√	---	---	√	OK	OK	NO	--
FE-013	CO2/2 kgs	PD lab	√	--	√	√	√	--	---	---	√	OK	OK	NO	--
FE-014	CO2/2 kgs	PD lab	√	--	√	√	√	--	---	---	√	OK	OK	NO	--
FE-015	CO2/2 kgs	PD lab	√	--	√	√	√	--	---	---	√	OK	OK	NO	--
FE-016	CO2/4.5kgs	QC Corridor	√	√	√	√	√	--	---	---	√	OK	OK	NO	--
FE-017	CO2/4.5kgs	QC Corridor	√	√	√	√	√	--	---	---	√	OK	OK	NO	--
FE-018	CO2/4.5kgs	QC Corridor	√	√	√	√	√	--	---	---	√	OK	OK	NO	--
FE-019	CO2/4.5kgs	QC Corridor	√	√	√	√	√	--	---	---	√	OK	OK	NO	--

Annexure-2
GL.No.:EHS/OMFHS/016/A2.03

LUPIN

Fire Hydrant point and Fire Hose Box checklist

Done on: 06/08/21 Due Date: 13/08/21

FHP & FHB No.	Location	Single Hydrant					Fire Hose Box						Remarks
		Valve	Lug	Cap	Chain	Washer	Condition	F-handle	Key	Nozzle	Fire Hoses		
											Available	Condition	
FHP-001 & FHB-001	Near Security Buidling-01	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	
FHP-002 & FHB-002	Admin Building, Emergency Staircase -1, Ground Floor	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	
FHP-003 & FHB-003	Admin Building, Emergency Staircase -1, First Floor	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	
FHP-004 & FHB-004	Admin Building, Emergency Staircase -2, First Floor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
FHP-005 & FHB-005	Admin Building, Emergency Staircase -2, Ground Floor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
FHP-006 & FHB-006	South side of Admin Building	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	
FHP-007 & FHB-007	South side Green Belt Area	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	
FHP-008 & FHB-008	South side Green Belt Area	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	
FHP-009 & FHB-009	South side of Warehouse Building	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
FHP-010 & FHB-010	East side entrance of Warehouse Building	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	
FHP-011 & FHB-011	East side entrance of Warehouse Building	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
FHP-012 & FHB-012	East side entrance of Warehouse Building	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	
FHP-013 & FHB-013	East side of Tanker Parking Yard	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
FHP-014 & FHB-014	East side of Tanker Parking Yard	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	
FHP-015 & FHB-015	South side of Transformer Yard	✓	✓	✓	✓	✓	X	X	X	X	X	X	FHB not working due it is removed.

Done by: M. Pawar

Checked by:

Put the (√) if check point is ok; Put the (X) if check point is not ok

LUPIN
Visakhapatnam

Earth Pit Inspection Record

Year: 2020

Area : PCC

S. No	Earth Pit No.	Date of Inspection	Value (Ohm)
1	PCC/BE-01	19/06/2020	3.31
2	PCC /BE-02	19/06/2020	2.67
3	PCC /BE-03	18/06/2020	1.97
4	PCC /BE-04	18/06/2020	2.21
5	PCC /BE-05	18/06/2020	2.83
6	PCC /BE-06	18/06/2020	2.62
7	PCC /BE-07	19/06/2020	3.23
8	PCC /EE-01	19/06/2020	2.91
9	PCC /EE-02	19/06/2020	3.18
10	PCC /EE-03	19/06/2020	3.04
11	PCC /EE-04	19/06/2020	3.14
12	PCC /EE-05	19/06/2020	2.57
13	PCC /EE-06	19/06/2020	2.26
14	PCC /EE-07	19/06/2020	3.41
15	DG/NE-01	19/06/2020	1.16
16	DG/NE -02	19/06/2020	1.74
17	TR2/NE-03	18/06/2020	1.46
18	TR2/NE-04	18/06/2020	1.59
19	TR1/NE-05	18/06/2020	1.88
20	TR1/NE-06	18/06/2020	1.93
21	PCC /LA-01	19/06/2020	1.94

Prepared By
(Sign & Date)

Reviewed By
(Sign & Date)

LUPIN
Visakhapatnam

Earth Pit Inspection Record

Year: 2020

Area : HT Yard

S. No	Earth Pit No.	Date of Inspection	Value (Ohm)
1	HTSS/EE-01	18/06/2020	2.23
2	HTSS/EE-02	18/06/2020	1.96
3	HTSS/EE-03	18/06/2020	2.56
4	HTSS/EE-04	18/06/2020	1.86
5	HTSS/EE-05	18/06/2020	2.93
6	HTSS/EE-06	18/06/2020	3.06
7	HTSS/EE-07	18/06/2020	2.57
8	HTSS/EE-08	18/06/2020	2.43
9	HTSS/EE-09	18/06/2020	2.10
10	HTSS/EE-10	18/06/2020	1.86

Area : Warehouse

S. No	Earth Pit No.	Date of Inspection	Value (Ohm)
1	WH/EE-01	17/06/2020	4.61
2	WH/EE-02	17/06/2020	4.25
3	WH/BE-01	17/06/2020	3.65
4	WH/BE-02	17/06/2020	3.94
5	WH/LA-01	17/06/2020	2.93
6	WH/LA-02	17/06/2020	2.78
7	WH/LA-03	17/06/2020	3.28

Prepared By
(Sign & Date)
07/06/20

Reviewed By
(Sign & Date)
07/06/2020

Annexure-2
SOP No.:EHS-021

LUPIN

Illumination levels monitoring record

Date: 10/07/21 Due date: 10/08/21

Name of the Block/ Section:

S.No.	Location	Illumination levels (LUX)		Deviation	Remarks
		Recommended	Measured		
01	Security gate-1	150	171.2		
02	Security gate-2	150	173.1		
03	ECC	150	190.2		
04	Training hall	150	151.1		
05	Doctor Room	150	200.7		
06	MPP1 C-stream centrifuge room	100	159.6		
07	MPP1 C-stream washing room	80	131.9		
08	MPP1 C-stream workup tanks area	50	110.0		
09	MPP1 C stream first floor receiver	80	167.9		
10	MPP1 C-stream reactor area	100	130.9		
11	MPP1 B-stream Centrifuge room-1	100	155.1		
12	MPP1 B-stream Centrifuge room-2	100	139.1		
13	MPP1 B-stream wash room	80	289.2		
14	MPP1 B-stream workup tanks area	50	121.0		
15	MPP1 B-stream VTD room	100	171.2		
16	MPP1 B-stream 2.5 meter	50	131.2		
17	MPP1 B-stream reactor area	100	126.9		
18	MPP1 B-stream First floor receivers	80	110.9		
19	MPP1 A-stream CF room	100	179.0		
20	MPP1 A-stream workup tanks	50	99.9		
21	MPP1 A-stream wash room	80	97.1		
22	MPP1 A stream technical area ground floor	50	100.0		
23	MPP1 A-stream reactor area	100	171.0		

Annexure-2
SOP No.:EHS-021

LUPIN	Illumination levels monitoring record

Name of the Block/ Section:

S. No.	Location	Illumination levels (LUX)		Deviation	Remarks
		Recommended	Measured		
24	MPP1 A-stream First floor receivers areas	80	113.9		
25	MPP1 technical area first floor	50	31.0	19.0	
26	RO plant	80	102.1		
27	MPP1 Spray Dryer room	150	142.9	7.1	
28	MPP1 Micronizer-1	150	179.2		
29	MPP1 Micronizer-2	150	181.1		
30	MPP1 A-stream PP area corridor	80	110.9		
31	MPP1 A-stream PP area reactor area	150	133.2		
32	MPP1 B-stream PP area corridor	80	96.2		
33	MPP1 B-stream PP area reactor area	150	130.1		
34	MPP1 C-stream PP area corridor	80	102.9		
35	MPP1 C-stream PP area reactor area	150	111.1		
36	MPP1 terrace scrubbers area	30	90.0		
37	MPP1 AHU area	50	79.2		
38	MPP1 stair cases	50	101.9		
39	MPPI day tank area	30	43.0		
40	MPPI ML tank area	30	36.2		
41	MPP2 Ground floor corridor	50	80.9		
42	MPP2 reactor area	100	119.9		
43	MPP2 First floor receivers areas	80	129.9		
44	MPP2 first floor technical area	80	119.6		
45	MPP2 ground floor technical area	80	83.1		
46	MPP2 PP area corridor	80	97.0		
47	MPP2 PP area reactor area	150	131.9	18.1	
48	MPP2 PP area wash room	150	210.9		
49	MPP2 day tank area	30	33.1		
50	MPP2 terrace	30	27.9		

TC No: VSP/LUP/2021-07/FLT/01

FORM No. 38

(Prescribed under Rule 55 & 55-A)

(REPORT OF EXAMINATION OF HOIST OR LIFT OR LIFTING MACHINERY / TACKLE)

	Name of the occupier (or Factory) Situation address (of factory)	:	M/s. **LUPIN LIMITED** Plot No : 130 , Road No : 11, JNPC Parawada (M),Visakhapatnam, Andhra Pradesh - 531 019, India
1	(a) Type of hoist or lift or Lifting Machinery / Tackle and identification number or description.	:	**FORK LIFT** Capacity : **2.0T**
	(b) Date of construction or reconstruction (if ascertainable)	:	2015
2	Design and construction (Are all parts of the hoist or lift of good mechanical construction, sound material and adequate strength as ascertainable)	:	Satisfactory
3	Distinguishing number or mark, if any and description sufficient to identify the lifting machine, chain ropes or the lifting tackle.	:	Make : Godrej Model: GX 200D Serial No: 21971 Id.No: **VZFL01** Height of Lift: 3mtrs Diesel Engine Operated, Tyre mounted Location: ware house (outside)
4	Maintenance Are the following parts of the hoist or lift properly maintained and in good working order? If not, state what defects have been found.	:	Not applicable
	a) Enclosure of hoist way or lift way	:	-------
	b) Landing gates and cage gate (s)	:	-------
	c) Inter-locks on the landing gate (s)and cage gate(s)	:	-------
	d) Other gates, fastenings	:	-------
	e) Cage and platform and fittings, guiders, buffers, interior of the hoist way or lift way	:	-------
	f) Over running devices	:	-------
	g) Suspension ropes or chain and their attachments.	:	-------
	h) Safety gear i.e., arrangements for prevention fall of platform or cage brakes.	:	-------
	i) Brakes.	:	-------
	j) Worm or spur gearing.	:	-------
	k) Other electrical equipment.	:	-------
	l) Other Parts.	:	-------
5	What parts (if any) were inaccessible	:	Nil
6	a) Repairs, renewals or alterations (if any) required and the period within which they should be executed. b) Particulars of the parts of hoists or lifts or lifting machinery / tackle rejected after the examination.	: :	Nil Nil
7	Maximum safe working load subject to repairs, renewals or alterations (if any) specified in Column No.(6)	:	Safe Working Load: **2.0T** (Maximum)
8	Others	:	**Fork Lift Truck** – hydraulic system and other mechanism are in good working condition, Hence it is **fit for use** upto its rated capacity.

I / we certify that on **12-07-2021**, I / we thoroughly examined this hoist / Lift /Lifting Machine/ Tackle and the above is a correct report of the result.

This Certificate is Valid up to: **11-07-2022.**

D.A. Narasimha Raju COMPETENT PERSON

D.A.Narasimha Raju B.E,M.Tech.,MIE.
COMPETENT PERSON UNDER A.P.FACTORIES RULES
49-53-9/5, Flat No.11, Bhavani Apartments-3,
Balayyasastry Layout,Visakhapatnam-530 013. A.P
PH: 9704718934, 9505586363, E-mail:lumensafety@gmail.com

Declared as Competent Person by the Director of Factories, Government of Andhra Pradesh.

TC No: VSP/LUP/2021-07/HPT/01

FORM No. 38

(Prescribed under Rule 55 & 55-A)

(REPORT OF EXAMINATION OF HOIST OR LIFT OR LIFTING MACHINERY / TACKLE)

	Name of the occupier (or Factory) Situation address (of factory)	:	M/s. **LUPIN LIMITED** Plot No : 130 , Road No : 11, JNPC Parawada (M),Visakhapatnam, Andhra Pradesh - 531 019, India
1	(a) Type of hoist or lift or Lifting Machinery / Tackle and identification number or description.	:	**Hand Pallet truck** **Battery Operate Stacker**
	(b) Date of construction or reconstruction (if ascertainable)	:	2015
2	Design and construction (Are all parts of the hoist or lift of good mechanical construction, sound material and adequate strength as ascertainable)	:	Satisfactory
3.	Distinguishing number or mark, if any and description sufficient to identify the lifting machine, chain ropes or the lifting tackle.	:	Capacity: **2000kg** Make: Voltas Model: VVEBOPT20 WOF-570 Equipment No: **VZHPTO1** S.I.No: **211123** Battery operated Location: ware house (Inside)
4	Maintenance Are the following parts of the hoist or lift properly maintained and in good working order? If not, state what defects have been found.	:	Not applicable
	a) Enclosure of hoist way or lift way	:	----------
	b) Landing gates and cage gate (s)	:	----------
	c) Inter-locks on the landing gate (s)and cage gate(s)	:	----------
	d) Other gates, fastenings	:	----------
	e) Cage and platform and fittings, guiders, buffers, interior of the hoist way or lift way	:	----------
	f) Over running devices	:	----------
	g) Suspension ropes or chain and their attachments.	:	----------
	h) Safety gear i.e., arrangements for prevention fall of platform or cage brakes.	:	----------
	i) Brakes.	:	----------
	j) Worm or spur gearing.	:	----------
	k) Other electrical equipment.	:	----------
	l) Other Parts.	:	----------
5	What parts (if any) were inaccessible	:	Nil
6	a) Repairs, renewals or alterations (if any) required and the period within which they should be executed. b) Particulars of the parts of hoists or lifts or lifting machinery / tackle rejected after the examination.	: :	Nil Nil
7	Maximum safe working load subject to repairs, renewals or alterations (if any) specified in Column No.(6)	:	Capacity: **2000kg**
8	Others	:	**Hand Pallet Truck** mechanism is in good working condition; hence it is **fit for use for** lifting loads upto its rated capacities.

I / we certify that on **12-07-2021**, I / we thoroughly examined this hoist /Lift /Lifting Machine/Tackle and the above is a correct report of the result.

This Certificate Valid up to: **11-07-2022.**

D.A.Narasimha Raju B.E,M.Tech.,MIE.
COMPETENT PERSON UNDER A.P.FACTORIES RULES
#49-53-9/5, Flat No.11, Bhavani Apartments-3,
Balayyasastry Layout,Visakhapatnam-530 013. A.P
PH: 9704718934, 9505586363, E-mail:lumensafety@gmail.com

Declared as Competent Person by the Director of Factories, Government of Andhra Pradesh.

TC No: VSP/LUP/2021-07/HPT/02

FORM No. 38

(Prescribed under Rule 55 & 55-A)

(REPORT OF EXAMINATION OF HOIST OR LIFT OR LIFTING MACHINERY / TACKLE)

	Name of the occupier (or Factory) Situation address (of factory)	:	M/s. **LUPIN LIMITED** Plot No : 130 , Road No : 11, JNPC Parawada (M),Visakhapatnam, Andhra Pradesh - 531 019, India
1	(a) Type of hoist or lift or Lifting Machinery / Tackle and identification number or description.	:	**Battery operated Stacker**
	(b) Date of construction or reconstruction (if ascertainable)	:	2015
2	Design and construction (Are all parts of the hoist or lift of good mechanical construction, sound material and adequate strength as ascertainable)	:	Satisfactory
3.	Distinguishing number or mark, if any and description sufficient to identify the lifting machine, chain ropes or the lifting tackle.	:	Capacity: **1500kg** Make: Voltas Model: VLST1.45THVT6300 Equipment No: **VZSTK01** S.I.No: **211177** Location: ware house (Inside)
4	Maintenance Are the following parts of the hoist or lift properly maintained and in good working order? If not, state what defects have been found.	:	Not applicable
	a) Enclosure of hoist way or lift way	:	--------
	b) Landing gates and cage gate (s)	:	--------
	c) Inter-locks on the landing gate (s)and cage gate(s)	:	--------
	d) Other gates, fastenings	:	--------
	e) Cage and platform and fittings, guiders, buffers, interior of the hoist way or lift way	:	--------
	f) Over running devices	:	--------
	g) Suspension ropes or chain and their attachments.	:	--------
	h) Safety gear i.e., arrangements for prevention fall of platform or cage brakes.	:	--------
	i) Brakes.	:	--------
	j) Worm or spur gearing.	:	--------
	k) Other electrical equipment.	:	--------
	l) Other Parts.	:	--------
5	What parts (if any) were inaccessible	:	Nil
6	a) Repairs, renewals or alterations (if any) required and the period within which they should be executed. b) Particulars of the parts of hoists or lifts or lifting machinery / tackle rejected after the examination.	: :	Nil Nil
7	Maximum safe working load subject to repairs, renewals or alterations (if any) specified in Column No.(6)	:	Capacity: **1500kg**
8	Others	:	**Battery operated Stacker** mechanism is in good working condition; hence it is **fit for use for** lifting loads upto its rated capacities.

I / we certify that on **12-07-2021**, I / we thoroughly examined this hoist /Lift /Lifting Machine/Tackle and the above is a correct report of the result.

This Certificate Valid up to: **11-07-2022.**

D.A.Narasimha Raju COMPETENT PERSON

D.A.Narasimha Raju B.E,M.Tech.,MIE.
COMPETENT PERSON UNDER A.P.FACTORIES RULES
#49-53-9/5, Flat No.11, Bhavani Apartments-3,
Balayyasastry Layout,Visakhapatnam-530 013. A.P
PH: 9704718934, 9505586363, E-mail:lumensafety@gmail.com

TEST EXAMINATION REPORT OF CHEMICAL STORAGE TANKS
Prescribed under Chemical Works
Schedule XV under Rule-95 of A.P. Factories Rules, 1950

TC No: VSP/LUP/2021-07/ST/01

1	Name of the occupier (or Factory) Situation address (of factory)	:	M/s. **LUPIN LIMITED** Plot No : 130 , Road No : 11, JNPC Parawada (M),Visakhapatnam, Andhra Pradesh - 531 019, India
2.	Distinguishing number or mark, if any and description sufficient to identify the Storage Tank.	:	**STORAGE TANK** (Vertical type) Capacity / Volume : **25KL** Solvent Name: **DIESEL** ID. No: **VZMSST01** MOC : MS Make: Shree Krishna Engineering Works Design Pressure: Water Fill, Design Temp. 80^0C Test Pressure: Water Fill Measured Thickness of Shell: 7.9mm,7.9mm,7.8mm Location: at **CCOE Tank Form Area, Near Stores.**
3	Design and construction (Are all parts of the Storage Tank of good mechanical construction, sound material and adequate strength as ascertainable)	:	Satisfactory
4	Date when the Storage Tank was taken into use in the factory.	:	2015
5	Date of each periodical thorough examination Made under A.P.Factories Rules.	:	Inspection & Testing of the Storage Tank is carried out on 12-07-2021
6	Repairs, renewals or alterations (if any) required and the period within which they should be executed.	:	Not Required
7	Others	:	**Storage Tank** - level gauge, connected pipe lines, flange guards, material of construction and foundation are in good working condition. Hence it is **fit for use.**

I / we certify that on **12-07-2021**, I / we thoroughly examined this Storage Tank and the above is a correct report of the result.

This report is valid upto: **11-07-2022**

D.A.Narasimha Raju B.E,M.Tech.,MIE.
COMPETENT PERSON UNDER A.P.FACTORIES RULES
49-53-9/5, Flat No 11, Bhavani Apartments-3,
Balayyasastry Layout,Visakhapatnam-530 013, A.P
PH: 9704718934, 9247309386, E-mail:lumensafety@gmail.com

Declared as Competent Person by the Director of Factories, Government of Andhra Pradesh.

Annexure-1
SOP No.:EHS-021

LUPIN

Noise level monitoring record

Date: 07/07/21 Due date: 07/08/21

S. No.	Location	PEL dB(A)	Measured Noise levels dB(A)	Deviation	Remarks
1	MPP 1 C-stream centrifuge room	75	60.1		
2	MPP 1 B-stream Centrifuge room-2	75	46.2		
3	MPP 1 B-stream Centrifuge room-1	75	40.8		
4	MPP 1 A-stream Centrifuge room	75	67.1		
5	MPP 1 Spray Dryer room	75	40.2		
6	MPP 1 Micronizer-1	75	50.6		
7	MPP 1 Micronizer-2	75	47.2		
8	MPP 1 A-stream PP area Centrifuge room	75	40.1		
9	MPP 1 B-stream PP area Centrifuge room	75	39.6		
10	MPP 1 C-stream PP area Centrifuge room	75	50.6		
11	MPP 2 Centrifuge room	75	55.1		
12	MPP 2 PP area Centrifuge room	75	56.2		
13	Diesel generator area	90	70.1		
14	Boiler	90	74.1		
15	Utility	90	90.6	0.6	Ear muffs used
16	Fire hydrant pump house	90	77.4		

Monitored by: M. Pawar

Date: 07/07/21

Checked by:

Due date: 07/07/21

Annexure-1
GL.No.:EHS/PWS/046/A1.00

LUPIN

HEIGHT WORK PERMIT 560

Date	24/09/21	Serial No.	HEWP/ 891 / 21
Block/ dept.	MFP / Production	Permit valid from	09.00 Hrs
Location	Intermediate Ground floor	Permit valid up to	17.30 Hrs

Description of the Work to be Carried Out: Intermediate dry-2 lines modification and civil work purpose

Put the ✓ mark in appropriate column for the following checks

S. No.	Check list	Yes	NA
Checks to be carried out by the Workplace/ Initiating Department.			
01	Area/ Equipment are inspected and removed all sharp & hard objects	✓	-
02	Permanent safe means of access to work at height is available	✓	-
03	In the absence of fixed means of access, provisions of lifelines with fall arresting for both vertical and horizontal moment is to be ensured	-	✓
04	Specified safe working load of the temporary anchoring, in case fixed anchoring not available	-	✓
05	Scaffolding / Ladder and Working Platform arranged / Available	✓	-
06	Area barricaded/ precautionary boards displayed to restrict unauthorized personnel entry	-	✓
07	Work area is clear and safe from overhead electrical Lines and other protruded structures.	✓	-
08	The work area is well ventilated, illuminated and no process vents found	✓	-
09	The work area is free from oily /slippery condition and the openings are covered/ fenced	✓	-
10	Ensured the condition of the safety harness/ fall arrester and safety net.	-	✓
11	Physically fit workers are employed for the job	✓	-
12	Any other linked work permits raised along with this permit. If yes, Permit No. -	-	✓
13	Electrical supply is isolated, locked and tagged (LOTO) for equipment. Tag No.: -	-	✓
14	In case of fragile roof work - The Roof top ladder arranged properly	-	✓

15 **List of Persons engaged to do the work.**

S.No.	Name	S.No.	Name	S.No.	Name
i	Lakshmi packt	ii	Ram Chandar	iii	
iv		v		vi	
vii		viii		ix	

16 Person posted to supervise the job. Name: M. Saha Sign:

Signature of the Workplace In-charge: [signature] **Time:** 09:23 **Hrs.**

Checks to be carried out by EHS Department.						
17	Reviewed / Inspected the check points 01 to 16.					✓ -
18	PEP talk organized to the persons involved in this job.					✓ -
19	PPE Recommended (Put the ✓ mark on Required item)					
	a) Helmet ✓	b) Face Shield/ Goggle	c) Safety Gloves ✓	d) Respiratory masks	e) SCBA	
	f) Body Suit	g) Gum Boots	h) Safety Jerkies	i) Fall Arrestor	j) Others: Safety Shoes	
20	Special safety Recommendations if any :					

Signature of the EHS In-charge: [signature] 24/09/21 **Time:** 16:00 **Hrs.**

Approved by Workplace Head: [signature] 24/09/21 **Time:** 12:02 **Hrs.**

Change Over: In case of shift changeover within the permit validity period. Charge taken by

Workplace In-charge

Extension of work beyond permitted time:

Work to be continued from - **Hrs to** _____ **Hrs.** **Sign. of the Workplace Head** _____

All the precautions mentioned above are checked and found safe. **Head-EHS** _____

Approved by Unit Head/ Designee _____

Surrender: Work completed/ stopped at 12:30 Hrs On 24/09/21 and kept position as normal.

Signature of the Workplace In-charge: [signature]

After completion of the job retain White copy – Initiating Dept. Pink copy – EHS Dept.; Yellow copy – Executing dept.

Annexure-1
GL.No.:EHS/HWP/004/A1.02

HOT WORK PERMIT

454

Date: 26.07.21 | Serial No: HWP/ 746/21
Equipment No / Name: | Permit valid from: 9.00 Hrs
Location: | Permit valid up to: 17.30 Hrs
Description of Work: welding cutting, Grinding
Put the • mark at appropriate column for the following Checks

S. No.	Check list	Yes	NA
Checks to be carried out by Workplace In-charge			
01	Equipment / Vessel drained/ depressurized, purged with nitrogen/ steam and washed with water.	—	✓
02	Equipment/ Vessel Vents and Manholes kept Open.	—	✓
03	Removed all flammable/ hazardous materials from 10 meters surrounding of the Equipment / Vessel.	✓	—
04	Equipment/ Vessel/ Area found free from odour.	✓	—
05	Cordoned / Barricaded the area with wet cotton tarpaulin with an emergency exit.	✓	—
06	All the sewers/ drains/ pits near the work place are cleaned, covered.	✓	—
07	Proper ventilation and lighting available/ provided.	✓	—
08	"HOT WORK IN PROGRESS" precautionary board displayed.	✓	—
09	Smoke detectors in the work area are covered to prevent false alarms.	—	✓
10	Necessary Fire Extinguishers arranged. (Mech-Foam/ DCP/ CO2/ Dry Sand/ Fire Blanket)	✓	—
11	Any change control is required for the proposed work activity.	—	✓
12	Arranged running water provision to mitigate the fire emergency.	—	✓
13	Any other linked work permits raised along with this permit. If yes, Permit No :	—	✓
14	Fire watch person posted at the Hot work performing area. Name: Mohit Sign:		

Signature of the work permit Initiator: Vinyl Time: 9.00 Hrs.
Signature of the Workplace Project In-charge: Time: 09.30 Hrs.
Signature of the Workplace / Project Head: Time: 09.35 Hrs.

Checks to be carried out by Engineering & Maintenance Department.			
15	All the inlets & process lines of the equipment/ vessel are disconnected / blinded.	—	✓
16	Is the welding machine body is earthed and it's connected to the earth pit	✓	—
17	Equipment is electrically isolated, body earthing isolated, locked and Tag provided. Tag No:	—	✓
18	Electrical connections to the hot work performing equipment from main MCC / nearest source of electrical supply.	✓	—
19	Welding and earth cables are in good condition and earth cable connected to the body of the equipment.	✓	—
20	Gas cylinders have flash back arresters, protected from the falling objects/ molten metal.	✓	—
21	Gas cylinders are kept away from the work area and gas tubes are in good condition without cracks.	✓	—
22	Instructed Hot work performer to switch-off welding machine/ power tools during intervals of work.	✓	—
23	Person performing the Hot work. Name: Mukesh Sign:		

Signature of the Electrical personnel: Time: 09.36 Hrs.
Signature of the Mechanical personnel: Time: Hrs.
Signature of the Engineering Head: Time: Hrs.
Signature of the adjacent area In-charge: Time: Hrs.

Checks to be carried out by EHS Department						
24	Reviewed / Inspected the check points 01 to 23					✓
25	LEL measured in the Surrounding area and found safe (0%) Meter reading result: 0 %					✓
26	Pep talk organized to the persons involved in this job.					✓
27	PPE Recommended (Put the ✓ mark on Required item)					
	a) Helmet ✓	b) Face Shield/ Goggles	c) Safety Gloves ✓	d) Respiratory masks	e) SCBA	
	f) Body Suit	g) Gum Boots	h) Safety harness	i) Rope Ladder	j) Others: Safety Shoes	
28	Special safety Recommendations if any:					

Signature of the EHS in-charge: Time: 09.35 Hrs.
Approved by Unit Head/ Designee: Time: Hrs.
Change Over: In case of shift changeover within the permit validity period. Change taken by:
Hot work performer: Fire watch person: Workplace in-charge: EM In-charge:
Extension of work beyond permitted time: Work to be continued from Hrs to Hrs.
Sign. of the workplace head: ; Sign. of the Engineering Head:
All the precautions mentioned above are checked and found safe. Sign of EHS Head :
Approved by Unit Head/ Designee
Surrender: Work completed/ stopped at 17:30 hrs. Area cleaned and kept position as normal.
Signature of the Workplace In-charge:

After completion of the job retain White copy-Initiating Dept., Pink copy – EHS Dept., Yellow copy – Executing dept.

Annexure-1
SOP No.:EHS-001

743

VESSEL/ CONFINED SPACE ENTRY WORK PERMIT

LUPIN

Date:	Serial No. : VEP/
Equipment No./ Name:	Permit valid from Hrs
Location	Permit valid up to Hrs
Description of Work:	

Put the ✓ mark in appropriate column for the following checks

S. No.	Check list	Yes	NA
Checks to be carried out by Workplace In-charge			
01	Equipment / Vessel drained/ depressurized.		
02	Equipment is cleaned, washed, dried and cooled to room temperature.		
03	Equipment / Vessel found free from odour.		
04	Stopped the hazardous processes and Cleared the Hazardous materials in the surrounding area.		
05	Equipment properly ventilated and adequately illuminated (use flame proof light(s/ torch lights).		
06	Equipment/ Vessel Vents and Manholes kept Open.		
07	Proper means of access and exit are provided		
08	Running air hose kept in to Vessel.		
09	"Person working inside the Vessel Do Not Start" precautionary board displayed.		
10	Any other linked work permits raised along with this permit. If yes, Permit No.:		

Signature of the Workplace In-charge: **Time:** Hrs.
Signature of the Workplace Head: **Time:** Hrs.

Checks to be carried out by Engineering Department.			
11	All the inlets & process lines of the Vessel are disconnected / blinded	✓	
12	The equipment is electrically isolated, locked and tag provided (LOTO). Tag No:	✓	
13	K-pad is fixed properly for safe entry of person into the reactor	✓	
14	Person entering into the Vessel/Confined space **Name:** **Sign:**		
15	Rescue Person (Stand by person) posted at the vessel **Name:** **Sign:** Note: Rescue person should not move away during the work		

Signature of the Electrical personnel: **Time:** Hrs.
Signature of the Mechanical personnel: **Time:** Hrs.
Signature of the Engineering HOD: **Time:** Hrs.

Checks to be carried out by EHS Department.					
16	Reviewed / Inspected the check points 01 to 15.				
17	Oxygen percentage inside Vessel test done and found ____ % **Note: Oxygen availability should be in acceptable limit (19.5% to 22.0%)**				
18	LEL test done and found the range within the safe limits (0%). Result: ____ %				
19	Visual verification of the health condition of the entering persons & PEP talk organized to the persons involved in this job.				
20	The entering person is provided with PAS (Person al Alert Sensor)				
21	PPE Recommended (Put the ✓ mark on Required item)				
	a) Helmet	b) Face Shield/ Goggle	c) Safety Gloves	d) RPE	e) SCBA
	f) Body Suit	g) Gum Boots	h) Safety harness	i) Rope Ladder	j) Others
22	Special safety recommendations if any:				

Signature of the EHS In-charge: **Time:** Hrs
Approved by Unit Head/ Designee: **Time:** Hrs.

Change Over: In case of shift changeover within the permit validity period. Charge taken by

Entering person: Rescue man: Workplace In-charge: ENG In-charge:

Extension of work beyond permitted time: Work to be continued from Hrs. to Hrs.
Sign. of the Workplace Head **: Sign. of the Head-ENG**
All the precautions mentioned above are checked and found safe. Head-EHS
Approved by Unit Head/ Designee

Surrender: Work completed/ stopped at hrs. On and kept position as normal.
Signature of the Workplace In-charge:

After completion of the job retain White copy – Initiating Dept., Pink copy – EHS Dept., Yellow copy – Executing dept.

EHS-001/F1-00

TC No: VSP/LUPIN/2021-06/RV/01

FORM No. 8

(Prescribed under Rule-56 A.P. Factories- Rules, 1950)

(REPORT OF EXAMINATION OF PRESSURE VESSEL OR PLANT)

1	Name of the Occupier (or Factory)	:	M/s. **LUPIN LIMITED**
2	Situation address (of factory)	:	Plot No : 130 , Road No : 11, JNPC Parawada (M),Visakhapatnam- 531 019,A.P.
3	Name description and distinctive number of pressure vessels	:	**Reaction Vessel** - Vertical Dishend Type Equipment ID.No: **VZ1SSRE01** Capacity: **4 KL** Location : **MPP-1**
4	Name and address of manufacturer.	:	Madhav equipments and engineers pvt ltd
5	Nature of process in which it is used	:	For process reaction purpose
6	Particulars of vessel a) Date of construction b)Thickness of walls c) Date of which the vessel was first taken into use d)Maximum permissible working pressure recommended by the manufacturer e) Design pressure (The history should be briefly given and the examiner should state whether he has been previous report)	: : : : :	 2015 Shell: 8.2 mm, Dish: 8.0 mm 2015 2.0Kg/cm^2 4.0Kg/cm^2
7	Date of last hydraulic test (if any) any pressure applied	:	**25-09-2020 at 3.0Kg/cm^2**
8	Is the vessel in open otherwise exposed to Weather or damp?	:	Vessel is located inside the building
9	What parts (in any) were inaccessible?	:	Nil
10	What examination and test were made? (Specify pressure if hydraulic test was carried out)	:	**External Examination test** is conducted on Dt. 07-06-2021
11	Conditions of vessels (State any defects materially affecting the safe working pressure of the safe working of vessels or Plant) EXTERNAL INTERNAL	: :	Satisfactory Not Seen
12	Are the required fittings and appliances provided in accordance with rules for pressure vessels?	:	Yes
13	Are all fittings and appliances properly main tainted and in good condition	:	Yes
14	Repairs (if any) required any period with which the should be executed and other condition with the person making the examination thinks its necessary to specify for securing safe working	:	Not required
15	Safe working pressure calculated for dimensions and from the thickness and any other condition with by the present examination, due allowance being made for conditions of working if unusual or exceptionally severe (State minimum thickness of walls measured during the examination)	: :	2.0Kg/cm^2 Measured thickness of Shell: 7.8mm,7.7mm,Dish: 7.7mm,7.8mm
16	Where repairs affecting the safe working pressure are required, state working pressure a) Before the expiration of the period specified in (14) b) After the expiration of such period if the required repairs have not been completed c) After the completion of the required repairs	: : :	Nil Nil Nil
17	Other observations	:	**Reaction Vessel** is found satisfactory and fit for use upto its rated pressure.

I, certify that on **07-06-2021,** the pressure vessel described above was thoroughly cleaned and (so far as its construction permits) more accessible for through examination and for such tests as were necessary for through examination end that on the said date I thoroughly examined this pressure vessel including its fittings and that above is true report of my examination.

The Next External Examination due on: **06-12-2021.**

P.A. PATRUDU, Visakhapatnam COMPETENT PERSON

P.A.PATRUDU,
COMPETENT PERSON UNDER A.P.FACTORIES RULES
49-53-9/6, Flat No.11, Bhavani Apartments-3,
Balayyasastry Layout,Visakhapatnam-530 013. A.P
PH: 09704718934, 9505586363, E-mail:lumensafety@gmail.com

Declared as Competent Person by the Director of Factories, Government of Andhra Pradesh.

TC No: VSP/LUPIN/2021-06/RV/02

FORM No. 8

(Prescribed under Rule-56 A.P. Factories- Rules, 1950)

(REPORT OF EXAMINATION OF PRESSURE VESSEL OR PLANT)

1	Name of the Occupier (or Factory)	:	M/s. **LUPIN LIMITED**
2	Situation address (of factory)	:	Plot No : 130 , Road No : 11, JNPC Parawada (M),Visakhapatnam- 531 019,A.P.
3	Name description and distinctive number of pressure vessels	:	**Reaction Vessel** - Vertical Dishend Type Equipment ID.No: **VZ1SSRE02** Capacity: **2 KL** Location : **MPP-1**
4	Name and address of manufacturer.	:	Promas Engineers Pvt Ltd.
5	Nature of process in which it is used	:	For process reaction purpose
6	Particulars of vessel a) Date of construction b)Thickness of walls c) Date of which the vessel was first taken into use d)Maximum permissible working pressure recommended by the manufacturer e) Design pressure (The history should be briefly given and the examiner should state whether he has been previous report)	: : : : :	 2015 Shell: 6.4 mm, Dish: 7.7mm 2015 2.0Kg/cm^2 4.0Kg/cm^2
7	Date of last hydraulic test (if any) any pressure applied	:	**13-11-2020 at 3.0Kg/cm^2**
8	Is the vessel in open otherwise exposed to Weather or damp?	:	Vessel is located inside the building
9	What parts (in any) were inaccessible?	:	Nil
10	What examination and test were made? (Specify pressure if hydraulic test was carried out)	:	**External Examination test** is conducted on Dt. 07-06-2021
11	Conditions of vessels (State any defects materially affecting the safe working pressure of the safe working of vessels or Plant) **EXTERNAL** **INTERNAL**	: :	Satisfactory Not Seen
12	Are the required fittings and appliances provided in accordance with rules for pressure vessels?	:	Yes
13	Are all fittings and appliances properly main tainted and in good condition	:	Yes
14	Repairs (if any) required any period with which the should be executed and other condition with the person making the examination thinks its necessary to specify for securing safe working	:	Not required
15	Safe working pressure calculated for dimensions and from the thickness and any other condition with by the present examination, due allowance being made for conditions of working if unusual or exceptionally severe (State minimum thickness of walls measured during the examination)	: :	2.0Kg/cm^2 Measured thickness of Shell: 6.4mm,6.5mm,Dish: 7.5mm,7.4mm
16	Where repairs affecting the safe working pressure are required, state working pressure a) Before the expiration of the period specified in (14) b) After the expiration of such period if the required repairs have not been completed c) After the completion of the required repairs	: : :	Nil Nil Nil
17	Other observations	:	**Reaction Vessel** is found satisfactory and **fit for Use** upto its rated pressure.

I, certify that on **07-06-2021**, the pressure vessel described above was thoroughly cleaned and (so far as its construction permits) more accessible for through examination and for such tests as were necessary for through examination end that on the said date I thoroughly examined this pressure vessel including its fittings and that above is true report of my examination.

The Next External Examination due on: **06-12-2021.**

P.A. Patrudu COMPETENT PERSON Visakhapatnam

P.A.PATRUDU
COMPETENT PERSON UNDER A.P.FACTORIES RULES
49-53-9/5, Flat No.11, Bhavani Apartments-3,
Balayyasastry Layout,Visakhapatnam-530 013. A.P
PH: 09704718934, 9505586363, E-mail:lumensafety@gmail.com

ARC FLASH AND SHOCK HAZARD ANALYSIS

Lupin Limited

Visakhapatnam, Andhra Pradesh

LUPIN

March 2021

Conducted by:

Cholamandalam MS Risk Services Limited
Chennai, India

(An ISO 9001:2008 Certified Organisation)

Chola MS RISK SERVICES

murugappa (A JV between Murugappa Group and Mitsui Sumitomo Insurance Group)

S. No.	Document Identification	Revision		Comments / Nature of Changes
		No	Date	
1.	Arc Flash Study/SR/LUPIN-Vizag/20-21/78	00	24.03.2021	Draft Report
2.		01	26.03.2021	Internal Review Comments Incorporated

Prepared By	Reviewed By	Approved By
Mr. Arulselvam A Deputy Manager – Electrical Safety	Mr. Harikiran M Senior Manager – Electrical Safety	Mr. Gopalakrishnan AM AGM – Electrical Safety

LUPIN

VISAKHAPATNAM

ANNEXURE-1

THERMOGRAPHY STUDY RECORD SHEET

Date: 16/09/2021

S. No	Feeder Name	Hot Spot temperature	Location of hot spot	Done by (Sign & Date)
1	PCC-1 In Comer	67.4 °C	Y-ph feeder	Vijay 16/09/21
2	DG. In Comer	33.8 °C	R-ph feeder	Vijay 16/09/21
3	chiller panel	67.3 °C	R-ph incoming	Vijay 16/09/21
4	MPDB feeder	42.8 °C	Y-ph feeder	Vijay 16/09/21
5	MLDB & Admin Sec	41.6 °C	R-ph feeder	Vijay 16/09/21
6	De-Humidifier	33.2 °C	B-ph feeder	Vijay 16/09/21
7	Oncology utility	48.2 °C	R-ph feeder	Vijay 16/09/21
8	Process panel-1	37.2 °C	Y-ph feeder	Vijay 16/09/21

Reviewed by: J.M.M.Sai Ram
(Sign & Date) 21/09/2021

LUPIN

VISAKHAPATNAM

ANNEXURE-1

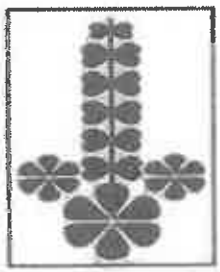
THERMOGRAPHY STUDY RECORD SHEET

Date: 16/09/2021

S. No	Feeder Name	Hot Spot temperature	Location of hot spot	Done by (Sign & Date)
9	procey panel-2	47.3 °C	B-ph feeder	16/09/21
10	Admin	47.8 °C	R-ph feeder	16/09/21
11	Tank farm	33.6 °C	B-ph feeder	16/09/21
12	Ware House	33.8 °C	Y-ph-feeder	16/09/21
13	APFC-01	69.7 °C	Y-ph Incoming	16/09/21
14	PCC-2 In Comer	78.8 °C	R-ph feeder	16/09/21
15	DG-2 In Comer	33.5 °C	R-ph feeder	16/09/21
16	HVAC-1	44.6 °C	B-ph feeder	16/09/21

Reviewed by: V.M.M. Sai Ram
(Sign & Date) 21/09/2021

SAFETY MANUAL



LUPIN

M/s. LUPIN LIMITED
Plot No. 130, Road No: 11,
Jawaharlal Nehru Pharmacity,
Parawada, Visakhapatnam-531019.

TABLE OF CONTENTS

LUPIN	LUPIN LIMITED (VISAKHAPATNAM)			
	USER REQUIREMENT SPECIFICATION			
	FACILITY / SECTION		EQUIPMENT/SYSTEM NAME	
	DOCUMENT NO.		VERSION NO.	
	EFFECTIVE DATE		PAGE NO.	

Prepared by (Department)	Name & Designation	Signature & Date
(User_____)		

Checked by (Department)	Name & Designation	Signature & Date
(USER DEPARTMENT _____)		
TECHNOLOGY TRANSFER / PROCESS ENGINEERING DEPARTMENT		
ENGINEERING / PRODUCTION		
PROJECT		
SAFFETY		
VALIDATION		

Approved by (Department)	Name & Designation	Signature & Date
Quality Assurance		

TABLE OF CONTENTS

LUPIN	LUPIN LIMITED (VISAKHAPATNAM)			
	USER REQUIREMENT SPECIFICATION			
	FACILITY / SECTION		EQUIPMENT/SYSTEM NAME	
	DOCUMENT NO.		VERSION NO.	
	EFFECTIVE DATE		PAGE NO.	

1.0 PROCESS / PRODUCT RQUIREMENTS:

LUPIN	LUPIN LIMITED (VISAKHAPATNAM)			
	USER REQUIREMENT SPECIFICATION			
	FACILITY / SECTION		EQUIPMENT/SYSTEM NAME	
	DOCUMENT NO.		VERSION NO.	
	EFFECTIVE DATE		PAGE NO.	

Sr. No.	Design Parameter	Requirement
1.1	Name of the equipment	Glass lined Reactor (MSGLR)
1.2	Number of equipment	01
1.3	**Purpose of the equipment**	
MSGL Reactor an equipment which is designed to carry out the wide range of acidic & basic chemical reactions, work-up, extraction, leaching, solvent removal and crystallization by providing desired mixing conditions and by maintaining the necessary parameters like temperature, pressure, concentration and pH etc.		
1.4	**Contact parts / material of construction**	
1.4.1	Shell, Top Dish, Bottom dish	Glass lined
1.4.2	Gaskets	Material compatible preferably Teflon
1.4.3	Manhole gasket	Teflon Enveloped
1.4.4	Agitator	Glass lined
1.5	**Required Capacity**	
1.5.1	Total Capacity	3000 Lt
1.6	**Any other specific requirement**	

Sr.No.	Features	Specification
1.6.1	Design temp. range	
	Shell	-28.8°C to 200 °C
	Limpet Coil/jacket	-28.8 °C to 200 °C
1.6.2	Operating temp. range	
	Shell	-20.0°C to 150 °C
	Limpet Coil/jacket Note: Double limpet required	-20.0°C to 180 °C

LUPIN

ANNEX_VZG_HR_036806

PERIODIC MEDICAL TEST CHECK LIST & CERTIFICATION

Date: 30/03/2021.

Part - A

S No	Diagnostic Test	Test Performed (Yes / No)	Test report attached
1.0	**CLINICAL EXAMINATION:**		
1.1	Anthropometry.	YES	YES
1.2	Vision testing.	YES	YES
1.3	Physical testing to detect presence of any contagious diseases (Eye, Skin & others).	YES	YES
2.0	**BLOOD:**		
2.1	Haematological – HB, TC, DC, ESR.	YES	YES
2.2	Biochemical – Random Blood Sugar.	YES	YES
2.3	Blood Group and RH Factor.	YES	YES
2.4	Lipid profile	YES	YES
3.0	**URINE**		
3.1	Routine & Microscopic.	YES	YES
4.0	**X- RAY CHEST**	YES	YES
5.0	**AUDIOMETRY:**	YES	YES
5.1	Spirometry	NO	NO
6.0	**ECG**	YES	YES
7.0	**TUBERCULOSIS DIAGNOSTIC TEST**		
7.1	Montex	YES	YES

Advice / Remarks by the Medical Officer:

Reviewed the clinical reports of Mr / Ms. CH Suresh. EMP NO 40003282 who has undergone the periodical Medical Examinations during 25/03/2021 and the reports found Normal/Abnormal.

30/03/2021
Medical Officer
Lupin Limited

Part - B
(This part shall be filled in case of any abnormality)

Advice/remarks by the medical officer:

Medical Officer Sign & date:	Employee Sign & date:	HR Head/designee Sign & date:

LUPIN

ANNEX_VZG_HR_036806

PERIODIC MEDICAL TEST CHECK LIST & CERTIFICATION

Date: 30/03/2021.

Part - A

S No	Diagnostic Test	Test Performed (Yes / No)	Test report attached
1.0	**CLINICAL EXAMINATION:**		
1.1	Anthropometry.	YES	YES
1.2	Vision testing.	YES	YES
1.3	Physical testing to detect presence of any contagious diseases (Eye, Skin & others).	YES	YES
2.0	**BLOOD:**		
2.1	Haematological – HB, TC, DC, ESR.	YES	YES
2.2	Biochemical – Random Blood Sugar.	YES	YES
2.3	Blood Group and RH Factor.	YES	YES
2.4	Lipid profile	YES	YES
3.0	**URINE**		
3.1	Routine & Microscopic.	YES	YES
4.0	**X- RAY CHEST**	YES	YES
5.0	**AUDIOMETRY:**	YES	YES
5.1	Spirometry	NO	NO
6.0	**ECG**	YES	YES
7.0	**TUBERCULOSIS DIAGNOSTIC TEST**		
7.1	Montex	YES	YES

Advice / Remarks by the Medical Officer:

Reviewed the clinical reports of Mr / Ms. CH Suresh. EMP NO 40003282 who has undergone the periodical Medical Examinations during 25/02/2021 and the reports found Normal/Abnormal.

30/03/2021

Medical Officer
Lupin Limited

Part - B

(This part shall be filled in case of any abnormality)

Advice/remarks by the medical officer:

Medical Officer Sign & date:	Employee Sign & date:	HR Head/designee Sign & date:

zoylo

LUPIN LIMITED	Date- 23/02/24	Location: Vizag.
Annual Medical Examination	Emp. ID- 90005282 Dept- Production	
Barcode No: ZDH098094	Age 35	
Name of Employee Ch. Sarath	Gender male	

Health Check-up Completion Tracker

#	Name of the Test	Type of Test	Completed (Y/N)	Signature
1	Height (cm), Weight (kg) 167 76	CLINICAL EXAMINATION		
2	BP 147/89 89	CLINICAL EXAMINATION	✓	✓
3	Examination for Skin, Eye & Others	CLINICALEXAMINATION		
4	Vision (EYE TEST)	CLINICAL EXAMINATION	✓	✓
5	HB, TC, DC, ESR	BLOOD		
6	Random Blood Sugar	BLOOD		
7	Blood Group & Rh Factor	BLOOD		
8	Lipid Profile	BLOOD		
9	Urine Routine & Microscopy	URINE		
10	X-Ray Chest	RADIOLOGY	✓	✓
11	Audiometry	HEARING TEST	✓	✓
12	ECG	ELECTROCARDIOGRAPH	✓	✓
13	Mantoux (Tuberculosis Test)	TUBERCULOSIS TEST	—	—
14	Spirometry	LUNG TEST		

NABL ACCREDITED

LAB REPORT

Name	: Mr.Mr. Suresh Chinnari	UHID No/Visit ID	: ZOYLO.00024985/ZOYLO.24985
Age/Gender	: 35 Y 0 M 0 D /M	Collected	: 25/Feb/2021 12:00AM
Ref Doctor	: 0	Received	: 03/Mar/2021 12:01PM
Ref.Cust	: ZOYLO CAMP	Reported	: 03/Mar/2021 08:14PM
Client Code	: ZOYLO	Barcode	: ZDH098094

DEPARTMENT OF HEMATOLOGY

Test Name	Result	Unit	Bio. Ref. Range	Method
COMPLETE BLOOD COUNT (CBC) - 25 TESTS				
Haemoglobin	14.70	gm%	13-17	Colorimetric
Total WBC count	6450	Cells/cumm	4000-11000	Elec. Impedence
RBC Count	5.2	Millions/cumm	4.5-5.9	Elec. Impedence
Platelet Count	334	10^3/µL	150-450	Elec. Impedence
Packed Cell Volume(PCV)	50.6	%	37-53	Cum.RBC Pulse High detection
Mean Corpuscular Hb. (MCH)	30.0	pg	30-36	Calculated
Mean Corpuscular Volume(MCV)	97.3	fL	80-100	Calculated
Mean Corpuscular Hb. Concentration(MCHC)	32.0	g/dl	32-36	Calculated
MPV	9.7	fL	7-11	
Platelet Crit	0.326	%	0.15-0.62	
RDWcv	14.5	%	11.5-14.5	
RDW-SD	44.50	fL	39.5-46.0	
PDW	11.0			
Differential Count by Flowcytometry/Microscopy				
Neutrophils	67	%	45-75	
Lymphocytes	27	%	30-40	
Eosinophils	03	%	1-6	
Monocytes	03	%	2-10	
Basophils	00	%	0-2	
Absolute Neutrophil Count	4321.5	cells/cumm	2000 - 7000	
Absolute Basophils Count	6.45	cells/cumm	0-100	
Absolute Lymphocyte Count	1741.5	cells/cumm	1000-3000	
Absolute Eosinophil Count	193.5	cells/cumm	50-500	
Absolute Monocyte Count	**193.5**	cells/cumm	200-1000	
Mixed Cells	6.00	%		
Smear Comment				

Dr.Syeda S. Fatima

M.D Pathology

No 299 A, MLA Colony, Road No 12, Banjara Hills, Hyderabad.
Customer Care : 77997 21212, 77997 10101 I www.remedieslabs.com
Mumbai I Vizag I Vijayawada I Chennai I Hyderabad I Kurnool I Tirupati I Nellore I Jammu & Kashmir

NABL ACCREDITED

LAB REPORT

Name	: Mr.Mr. Suresh Chinnari	UHID No/Visit ID	: ZOYLO.00024985/ZOYLO.24985
Age/Gender	: 35 Y 0 M 0 D /M	Collected	: 25/Feb/2021 12:00AM
Ref Doctor	: 0	Received	: 03/Mar/2021 12:01PM
Ref.Cust	: ZOYLO CAMP	Reported	: 03/Mar/2021 08:14PM
Client Code	: ZOYLO	Barcode	: ZDH098094

DEPARTMENT OF HEMATOLOGY

Test Name	Result	Unit	Bio. Ref. Range	Method

Printed On :11-Mar-2021 12:45 PM Sample Processed at :HYDERABAD

Dr.Syeda S. Fatima

M.D Pathology

No 299 A, MLA Colony, Road No 12, Banjara Hills, Hyderabad.
Customer Care : 77997 21212, 77997 10101 I www.remedieslabs.com
Mumbai I Vizag I Vijayawada I Chennai I Hyderabad I Kurnool I Tirupati I Nellore I Jammu & Kashmir

Dr.Remedies Labs
Diagnostics Redefined

NABL ACCREDITED

LAB REPORT

Name	: Mr.Mr. Suresh Chinnari	UHID No/Visit ID	: ZOYLO.00024985/ZOYLO.24985
Age/Gender	: 35 Y 0 M 0 D /M	Collected	: 25/Feb/2021 12:00AM
Ref Doctor	: 0	Received	: 03/Mar/2021 12:01PM
Ref.Cust	: ZOYLO CAMP	Reported	: 05/Mar/2021 08:01PM
Client Code	: ZOYLO	Barcode	: ZDH098094

DEPARTMENT OF HEMATOLOGY

Test Name	Result	Unit	Bio. Ref. Range	Method
BLOOD GROUPING(A,B,O) AND RH FACTOR , *WHOLE BLOOD EDTA*				
Blood Grouping	A			Slide/Tube Agglutination
Rh (D) Type	Positive			Slide/Tube Agglutination

Printed On :11-Mar-2021 12:45 PM Sample Processed at :HYDERABAD

Dr.Syeda S. Fatima

M.D Pathology

No 299 A, MLA Colony, Road No 12, Banjara Hills, Hyderabad.
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Mumbai | Vizag | Vijayawada | Chennai | Hyderabad | Kurnool | Tirupati | Nellore | Jammu & Kashmir

NABL ACCREDITED

LAB REPORT

Name	: Mr.Mr. Suresh Chinnari	UHID No/Visit ID	: ZOYLO.00024985/ZOYLO.24985
Age/Gender	: 35 Y 0 M 0 D /M	Collected	: 25/Feb/2021 12:00AM
Ref Doctor	: 0	Received	: 03/Mar/2021 12:01PM
Ref.Cust	: ZOYLO CAMP	Reported	: 03/Mar/2021 09:33PM
Client Code	: ZOYLO	Barcode	: ZDH098094

DEPARTMENT OF HEMATOLOGY

Test Name	Result	Unit	Bio. Ref. Range	Method
ERYTHROCYTE SEDIMENTATION RATE (ESR) , *EDTA*				
Erythrocyte Sedimentation Rate (ESR)	08	mm/hr	2-10	Westergren Method

Comment:

Note: ESR is an acute phase reactant which indicates presence and intensity of an inflammatory process. ESR is elevated in a wide range of organic diseases. ESR is not a specific and diagnostic test for any disease. However, it is helpful in differentiating functional from organic disease. Extremely high levels are found in cases of malignancy, hematologic diseases, collagen disorders and renal diseases.

Reference: Bates I. Reference Ranges and Normal Values. In: Bain BJ, Bates I, Laffan MA, Lewis SM, editor. Dacie and Lewis Practical Haematology, 12th ed. China: Elsevier publishers; 2017.pg. 8-17.

Printed On :11-Mar-2021 12:45 PM Sample Processed at :HYDERABAD

Dr.Syeda S. Fatima

M.D Pathology

No 299 A, MLA Colony, Road No 12, Banjara Hills, Hyderabad.
Customer Care : 77997 21212, 77997 10101 I www.remedieslabs.com
Mumbai I Vizag I Vijayawada I Chennai I Hyderabad I Kurnool I Tirupati I Nellore I Jammu & Kashmir

Dr.Remedies Labs
Diagnostics Redefined...

NABL ACCREDITED

LAB REPORT

Name	: Mr.Mr. Suresh Chinnari	UHID No/Visit ID	: ZOYLO.00024985/ZOYLO.24985
Age/Gender	: 35 Y 0 M 0 D /M	Collected	: 25/Feb/2021 12:00AM
Ref Doctor	: 0	Received	: 27/Feb/2021 01:28PM
Ref.Cust	: ZOYLO CAMP	Reported	: 03/Mar/2021 01:28PM
Client Code	: ZOYLO	Barcode	: ZDH098094

DEPARTMENT OF BIOCHEMISTRY-ROUTINE

Test Name	Result	Unit	Bio. Ref. Range	Method
GLUCOSE - RANDOM , *NAF PLASMA*				
Random Glucose	100	mg/dL	70-140	Hexokinase

Comment:

Ref.for Biological Reference Intervals: American Diabetic Assiosation.

A blood glucose test measures the glucose levels in your blood. Glucose is a type of sugar. It is your body's main source of energy.

Symptoms of high blood glucose levels include increased thirst, more frequent urination, Blurred vision, Fatigue, Wounds that are slow to heal.

Symptoms of low blood glucose levels include Anxiety, Sweating, Trembling, Hunger and Confusion.

Blood glucose test is required to check certain risk factors for diabetes. These include Being overweight, Lack of exercise, Family member with diabetes, High blood pressure, Heart disease.

Printed On :11-Mar-2021 12:45 PM Sample Processed at :VISHAKAPATNAM

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Name	: Mr.Mr. Suresh Chinnari	UHID No/Visit ID	: ZOYLO.00024985/ZOYLO.24985
Age/Gender	: 35 Y 0 M 0 D /M	Collected	: 25/Feb/2021 12:00AM
Ref Doctor	: 0	Received	: 27/Feb/2021 01:28PM
Ref.Cust	: ZOYLO CAMP	Reported	: 10/Mar/2021 01:31PM
Client Code	: ZOYLO	Barcode	: ZDH098094

DEPARTMENT OF BIOCHEMISTRY-ROUTINE

Test Name	Result	Unit	Bio. Ref. Range	Method
LIPID PROFILE , *SERUM*				
Total Cholesterol	156.89	mg/dL	Desirable : < 200 Borderline High :200 - 239 High : > 240	CHOD-POD
HDL Cholesterol	42.39	mg/dL	Low: < 40 High: > 60	Direct Measurement with DS
Total Triglycerides	135.47	mg/dL	Desirable Level : 150 Borderline : 150-199 High : 200-499 Very High : 500	Enzymatic-GPO POD
VLDL Cholesterol	27.09	mg/dL	<=30	Calculated
LDL Cholesterol	87.41	mg/dL	<100:Optimal	Calculated
Non - HDL Cholesterol	114.5	mg/dL	<130	Calculated
Chol / HDL Ratio	3.7		Low Risk : 3.3-4.4 Average Risk : 4.5-7.1 Moderate Risk : 7.2-11.0 High Risk : >11.0	Calculated
HDL/LDL Cholesterol Ratio	0.48			Calculated
LDL/HDL Ratio	2.06			Calculated

Comment:

A **lipid profile** that measures the amount of cholesterol and fats called triglycerides in the blood. These measurements give the doctor a quick snapshot of what's going on in blood. Cholesterol and triglycerides in the blood can clog arteries, making you more likely to develop heart disease.

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Dr.Syeda S. Fatima

M.D Pathology

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LAB REPORT

Name	: Mr.Mr. Suresh Chinnari	UHID No/Visit ID	: ZOYLO.00024985/ZOYLO.24985
Age/Gender	: 35 Y 0 M 0 D /M	Collected	: 25/Feb/2021 12:00AM
Ref Doctor	: 0	Received	: 27/Feb/2021 01:14PM
Ref.Cust	: ZOYLO CAMP	Reported	: 10/Mar/2021 01:31PM
Client Code	: ZOYLO	Barcode	: ZDH098094

DEPARTMENT OF CLINICAL PATHOLOGY

Test Name	Result	Unit	Bio. Ref. Range	Method
CUE - COMPLETE URINE ANALYSIS , *URINE*				
Physical Examination				
Colour	Pale Yellow			
Appearance	Clear		Clear	
pH	6.5		5.0-8.5	Double Indicator
Specific Gravity	1.010		1.005-1.030	Ion Exchange
Chemical Examination				
Albumin Urine/ Protein Urine	Negative		Negative	Sulphosalicylic acid
Glucose Urine	Negative		Negative	Benedicts
Urobilinogen	Negative		Negative	Ehrlichs's reagent
Ketone Bodies	Negative		Negative	Rotheras method
Bile Salts	Negative		Negative	Hay's Sulphur
Bile Pigments	Negative		Negative	Fouchets method
Blood	Negative		Negative	Diazonium Method
Nitrite	Nil		Nil	Diazonium Method
Microscopic Examination				
Pus Cells(Leucocytes)	2-4	/Hpf	0-5	Microscopy
Epithelial Cells	1-2	Hpf	0-5	Microscopy
RBCs	Nil		Nil	Microscopy
Casts	Nil		Nil	Microscopy
Crystals	Nil		Nil	Microscopy
Bacteria	Nil		Nil	Microscopy
Budding Yeast Cells	Absent		Absent	Microscopy
Others	Nil		Nil	Microscopy

Printed On :11-Mar-2021 12:45 PM Sample Processed at :VISHAKAPATNAM

Dr.Syeda S. Fatima

M.D Pathology

NABL ACCREDITED

LAB REPORT

Name	: Mr.Mr. Suresh Chinnari	UHID No/Visit ID	: ZOYLO.00024985/ZOYLO.24985
Age/Gender	: 35 Y 0 M 0 D /M	Collected	: 25/Feb/2021 12:00AM
Ref Doctor	: 0	Received	: 04/Mar/2021 03:02PM
Ref.Cust	: ZOYLO CAMP	Reported	: 04/Mar/2021 03:23PM
Client Code	: ZOYLO	Barcode	: ZDH098094

DEPARTMENT OF MICROBIOLOGY

Test Name	Result	Unit	Bio. Ref. Range	Method
MANTOUX TEST				
Result	Negative			

Printed On :11-Mar-2021 12:45 PM Sample Processed at :VISHAKAPATNAM

*** End Of Report ***

Dr.Syeda S. Fatima

M.D Pathology

No 299 A, MLA Colony, Road No 12, Banjara Hills, Hyderabad.
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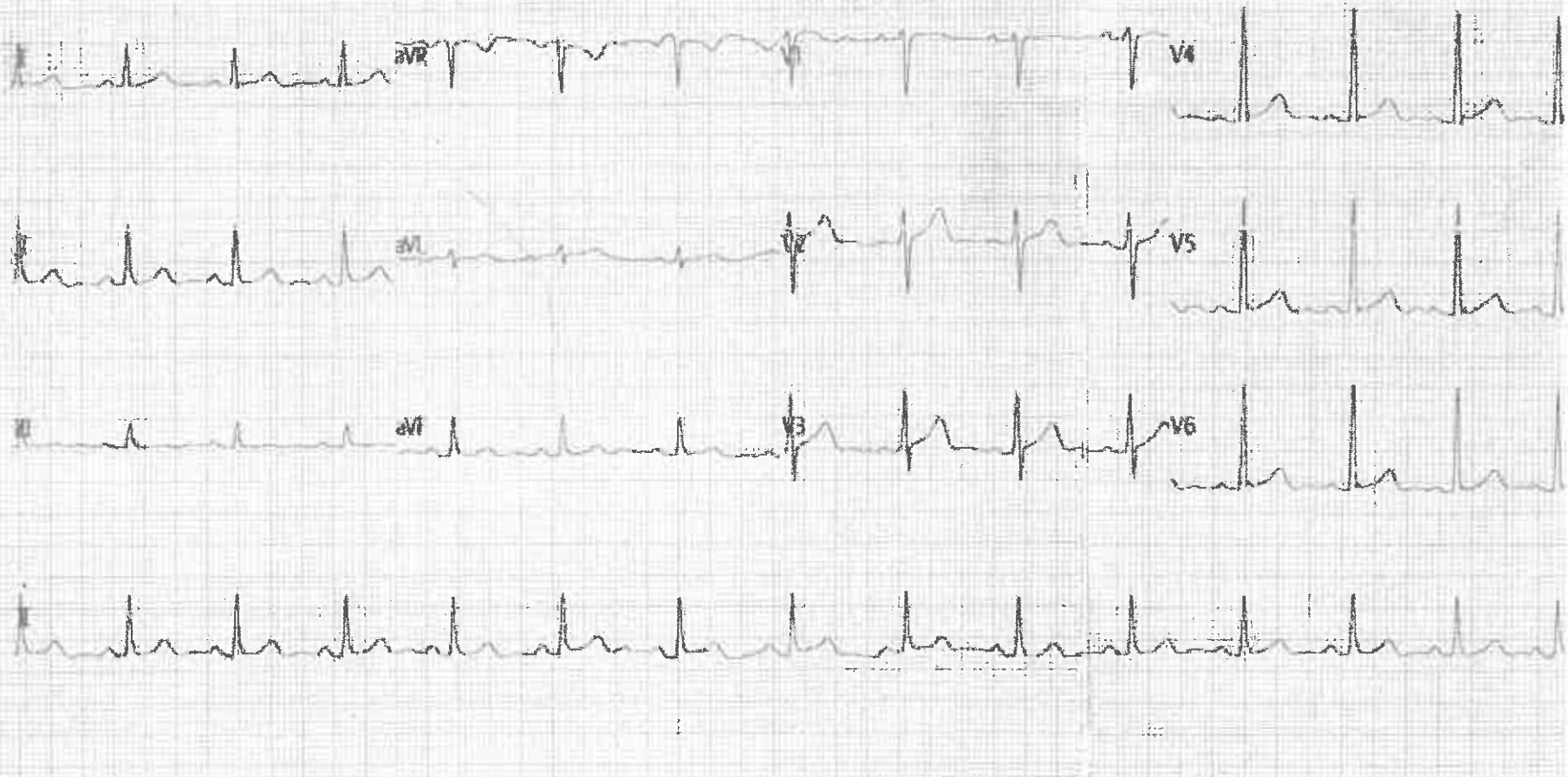
Dr.Remedies Labs
Diagnostics Redefined...

10mm/mV 10mm/mV 10mm/mV 10mm/mV

ZDH098094
CH·suresh 35y/M



Vent. Rate(BPM) 85

PR Int.(ms) : 139
P/QRS/T Int.(ms) : 103 93 171
QT/QTc Int.(ms) : 357 424
P/QRS/T Axis(Deg.) : 52 59 48
aVL/SV3 Amp.(mV) : 0.11 0.00
RV5/SV1 Amp.(mV) : 1.78 0.83

ECG Analysis Result:

Normal Sinus Rhythm
*** Normal ECG ***

ST LEVEL(mV)

I	II	III	aVR	aVL	aVF
+0.00	+0.03	+0.01	-0.02	-0.00	+0.02
V1	V2	V3	V4	V5	V6
+0.05	+0.10	+0.11	+0.06	+0.04	+0.08

ZDH098094

Technician

Note :

25mm/s AC50 EMG ADS 25-02-2021 10:19:48 M -Y / cm/Ks / mm/Hz

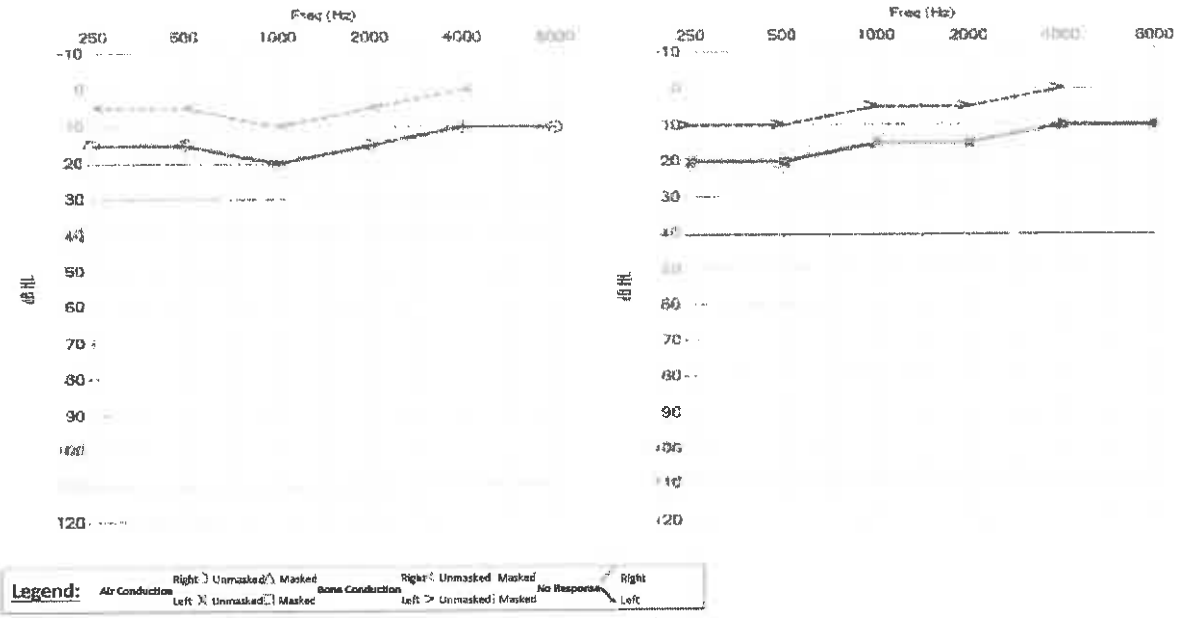
ZOYLO DIGIHEALTH PRIVATE LIMITED

TITANIUM, Plot No. 1-98/8/75-A, Jubilee Enclave, Hyderabad-530008.
Ph.No. - 04030094600

Audiological Evaluation

Name: Mr C.H. SURESH [98094]
Age/Gender:35 years / Male
Responses: Consistent

Date: 25 Feb 2021
Patient Id # 10753



Pure Tone Average (PTA):
Right : 17 dBHL **Left** : 17 dBHL

Stimuli: Pure Tone
Masker: NarrowBand Noise

Diagnosis:
Right Ear :- Normal hearing sensitivity
Left Ear :- Normal hearing sensitivity

Recommendations:
- Follow up audiometry in 6 months

This is a computer generated report, suggestive of above findings based on patient responses in a standardized test. Please correlate clinically.

ZOYLO DIGIHEALTH PRIVATE LIMITED
TITANIUM, Plot No. 1-98/8/75-A, Jubilee Enclave,
Hyderabad-530008.
Ph.No. - 04030094600

NAME:CH.SURESH
ID NO: ZDH098094

DATE:25-02-2021

CHEST X-RAY PA VIEW

Cardiac size and configuration are normal.

The Aorta and the plum onary vasculature are normal.

Bilateral lung parenchyma is clear.

Bony cage & soft tissues are normal.

IMPRESSION : NORMAL STUDY

Dr.MADHURI
RADIOLOGIST

DR.MADHURI
RADIOLOGIST

ON SITE EMERGENCY PREPAREDNESS PLAN AND RESPONSE PROCEDURE

For

LUPIN

M/s. LUPIN LIMITED
PLOT NO-130, JAWAHARLAL NEHRU PHARMACITY,
PARAWADA MANDAL, VISAKHAPATNAM
ANDHRA PRADESH-531019,INDIA

TABLE OF CONTENTS

REVISION RECORD SHEET

S.No.	Section	Page No.	Rev. No. / Date	Brief description of the changes	Reasons
1		-	01 /16.07.2019	The Total Manual Reviewed by external consulting agency M/s. **LUMEN ENGINEERING ASSOCIATES**	In view of including some more Hazardous scenarios.
2		-	02 /30.07.2020	Format Changed according to New Statutory regulations	For Ease of understanding and also COVID-19 precautionary measures

CONTENTS

1. PREAMBLE

- **M/s. LUPIN LIMITED** has set up a Factory at Parawada Visakhapatnam, Plot No-130, Road No: 11, Jawaharlal Nehru Pharmacity, Parawada Mandal, Visakhapatnam, Andhra Pradesh-531019, India is engaged in manufacture of Bulk Drugs, Drug intermediates.

- The safety aspects of the manufacturing activity are generally covered under the Factories Act 1948 and AP Factories Rules. Major accident Hazard identification, taking preventive steps for avoiding such major accidents, taking steps to limit their consequences to persons, environment, in the event of such major accidents and disclosing them in advance to factory inspectorate is an obligation on the factory management carrying hazardous process as defined under Factories Act. Studying carefully the properties of raw materials, finished products, by-products as well as hazards in actual operations and reactions and declaring to factory inspectorate in advance the steps taken or proposed to be taken from the design stage to disposal stage for ensuring the safety are also included in the above said statutory obligations of factory management.

- As an attempt towards partial compliance of above obligations, the management of **M/s. LUPIN LIMITED** hired the services of **LUMEN Engineering Associates** to conduct study and preparation of a report on "Hazard Analysis and Risk Assessment" covering all the areas as scheduled.

- In a Manufacturing facility, the product mix often changes depending upon manufacturing technology improvements and market requirements. Thus, whenever new products / facilities are planned, the organizations are obliged to identify all the hazards including process hazards and take measures to prevention of major accidents. Therefore, undertaking similar relevant studies and submission of reports continues to be an obligation to be fulfilled at the appropriate time prescribed under the law.

- The Present report covers Chemical Hazards, Consequences of Containment Failure and Failure Modes.

2. ABOUT THE PLANT

1.	Name of the Organization	M/s. LUPIN LIMITED
2.	Address	Plot No: 130, Road No: 11, JNPC, Parawada(M), Visakhapatnam – 531019, Andhra Pradesh.
3.	Phone Number	08924288999
4.	Name of the Occupier	Mr. Ramesh Swaminathan
5.	Address of the Occupier	S/O Natarajan Swaminathan, 701, ERA III, Marathan Next Gen, Peninsula Corporate Park, GK Marg, Lower Peral, Mumbai, Maharastra - 400013
6.	Phone number	9617770352
7.	Name of the Plant Manager	Mr. Abhijeet Shinde
8.	Phone number	9617770352
9.	★ Police station ★ Nearest Fire Station ★ Nearest Hospital	Parawada: 08924 – 247233 Pharmacity: 08924 – 236057 Ramky General Hospital: 08924 – 236067 Govt. Hospital, Aganampudi: 0891 - 2579713
10.	Manufacturing Process	Bulk Drugs
11.	The Plant Area is surrounded by other major industries like:	East: M/s. Ramky Utility & Parking Area West: An open site and in between a road passage. North: Vacant land of M/s. Ramky. South: M/s. Laurus Labs, Unit-3 and in between a road passage

21. EMERGENCY INFORMATION

MOBILE PHONE NUMBERS OF KEY PERSONNEL				
S. No.	Name of the Person	Designation & Department	Intercom Number	Mobile Number
01	Mr. Abhijeet Shinde	Site Head	57801	9617770352
02	Mr. N. Srinivasa Rao	Head – HR	57803	7799686999
03	Mr. N. Ravi Kumar	Head – Engineering	57881	9642434356
04	Mr. T. Narayana Rao	Head - EHS	57961	7799037444
05	Mr. Ravi Meesala	Head Admin	57813	9885036549
06	Mr. G. Ananda Rao	Manager – Production	57931	9885340514
07	Mr. S. Sasidhar	Security Officer	57972	9160869777

SITE-INTERCOM NUMBERS

No.	Name of User	Ext. No.	Mobile No.	Speed Dial
Main board line:		(91-08924)	288999	
	ADMIN BUILDING			
1	Abhijeet Shinde	57801	9617770352	*801
2	Reception	57999		*802
3	N.Srinivasa Rao	57803	7799686999	*803
4	N.H.Eswara Prasad	57804	8879611418	*804
5	Janardhan Raju	57805	9229893362	*805
6	N.Ravi Kumar	57807	9642434356	*807
7	Shanmukeswara Rao	57808	8886087722	*808
8	A.Kalyan Chakravarthy	57813	9885036549	*813
9	Pareshwar Sahu	57814		*814
10	Kasi / Hari / Prasad	57815	9052620777	*815
11	V. V. Ramana Jada	57816	9620186484	*816
12	Ramakrishna Naidu	57817	9966931333	*817
13	S.Rajamani	57825	09823905641	*825
14	Admin Conference Room	57820		
II	QC & QA			
15	M.E.Naidu	57841	8827523955	*841
III	WAREHOUSE			
16	M.Bala krishana	57871	9160109777	*871
17	Ramesh/Ratna Giri	57872		
IV	ENGINEERING			
18	Utility	57881		
19	boiler	57882		
20	PCC ROOM	57883		
V	MANUFACTURING			
21	FLP	57901 - 11		
22	Anand Rao G	57931	8886484455	*931
23	Shift In charge	57932		
24	IPQA	57938		
VI	PROJECTS			
25	Pankaj Singla	57951	7799583332	*951
26	Nishikant Thorat	57954		
VII	SAFETY			
27	T. Narayana Rao	57961	7799037444	*961
28	OHC	57965	Doctor	*965
29	Emergency Control Centre	57966		
VIII	SECURITY			
30	Security Gate 1	57971		
31	Security Officer	57972	9160869777	*972
32	Emergency	57888		*111

22. GOVERNMENT SUPPORT FACILITIES

EMERGENCY PUBLIC SERVICES & GOVERNAMENT AUTHORITIES	
Authority	Telephone No.
Emergency Services (Medical, Police and Fire)	108
Fire Station, J.N. Pharmacity	08924-236057
Emergency Medical Centre, J.N. Pharmacity	08924-236067
Ambulance, J.N. Pharmacity	9704600908
IERC (Industrial Emergency Response Center)	0891-2700264
MRO – Parawada	08924-247626
Police Station - Parawada	08924-247233
Regional Fire Officer	9849907496
Divisional Fire Officer	9949991050
Asst. Divisional Fire Officer	9949991051
Regional Environmental Engineer	0891-2755356
Asst. Environmental Engineer	0891-2755356
Inspector of Factories	0891-2550294
Deputy / Joint Chief Inspector of Factories	0891-2550294
Regional Transport Officer	0891-2562063
Chief, Civil Defense	0891-2563000/2561483/86
Dist. Medical & Health Officer	0891-2550840
Commissioner of Police	0891-2562763
Joint Collector	0891-2565252
District Collector	0891-2563257/2563121
Govt.Hospital, Anakapalli	08924-232475
Govt.Hospital, Aganampudi	0891-2579713
Fire & Safety officer	9989931607

COVID-19 ACTION PLAN

LUPIN LIMITED, VISAKHAPATNAM

	PREPARED BY	REVIEWD BY	APPROVEDBY
SIGN & DATE			
NAME			
DESIGNATION			

1.0 PURPOSE:

To provide a guideline to carry out best practices on ensuring employees safety in pharmaceutical manufacturing in response to the COVID-19 crisis.

2.0 SCOPE:

Applicable to Lupin Limited, Visakhapatnam location.

3.0 RESPONSIBILITEY:

All employees and contractual employees working in Lupin Limited, Visakhapatnam.

4.0 DEFINATION:

COVID – 19: An infectious disease caused be a newly discovered corona virus

Social Distancing: Deliberately increasing the physical space between people to avoid spreading illness.

5.0 PROCEDURE:

5.1 Two-way communication across manufacturing network: To enable effective two-way communication across the manufacturing network, companies shall drive a communication network during crisis-

It is important to enable 2 levels of communication between corporate and location.

1. Communication from corporate to each site in the network on policies, updates, emergency notifications.

2. Communication from sites to corporate for reporting potential risks, addressing queries, sharing updates on regular operations

5.1.1 Communication from corporate:

5.1.1.1 Requests to adhere to general hygiene & other COVID-19 safety norms, i.e. frequent and adequate hand wash procedures, keeping appropriate talking distance (One meter) and avoiding otherwise typical local greeting procedures (Avoid handshaking, avoid social gathering etc.).

5.1.1.2 Daily report (preferably e-mail or combined call) from corporate to all sites with updated policies, guidelines and mechanisms to deal with the evolving situation.

5.1.2 **Communication from sites:**

5.1.2.1 Confidential and compliant self-reporting mechanisms shall develop across the site; e.g. hotline (phone / email / WhatsApp / self-declaration) for reporting an observed illness.

5.1.2.2 Real-time support-channels for all employees shall available; e.g. doctor / nurse hotline / HR (remotely accessible) for all personnel related queries.

5.1.2.3 Hold communication and promotion campaign to share best practices, discuss potential issues / risks, and answer key questions around the crisis through FMO / Respective department head / Site head.

5.1.2.4 Daily update shall provide from site to corporate with key information; e.g. Site performance, attendance, supply issues, site level issues, local body advisory etc.

5.1.2.5 Champion & Co-champion of Communication and promotion process coordinator shall responsible for communication, related to Covid-19 at site. Governance mechanism shall put in place for quick reaction to emerging situation on plant operations. Dedicated team could also be formed department wise for communication, related to Covid-19 at location.

5.2 Employee segregation and remote working for Supporting workforce:

Entire workforce shall be segregated into two categories based on current requirement and define working norms, rules and guidelines for all Personnel and contractors belonging to each category:

(a) Critical workforce needed on-site

(b) Supporting workforce

5.2.1 List of critical resources shall made on basis of production plan. Accordingly, essential work force from manufacturing, shop floor Personnel / QC analyst / engineering and another department shall categorize.

5.2.2 All other personnel shall identify as Supporting i.e. (work from home/ based on requirement) for on-site presence e.g. PDL / TT/ CSR/QA/QC/Account teams etc.

5.3 On-site personnel-movement norms:

5.3.1 **Transportation of employees and contractors:**

Below recommendation shall considered for employee safety during transportation:

5.3.1.1 Transport from residence to common pick up point: Employees shall typically make their own arrangement for travel to define pick-up points. Given high risk of infection during this 'Personnel' travel, it is recommended to use required PPEs – 100% use of nose mask and social distancing

LUPIN

COVER PAGE

SOP Name:	SOP_VZG_HR_033791 (2.0)
SOP Title:	Medical examination of the employees
Effective Date:	26 Aug 2021 15:33:26 (GMT+05:30)
Next Revision Date:	26 Aug 2024 15:33:26 (GMT+05:30)

Document approval:

If this document has been approved, the approval has been made by electronic signature and the evidence to support that is held on the system.This version of the document has been approved for use by the following signatories

Signed By : Nagarjuna Kandimalla (nagarjunakandimalla)
Decision : Approved
Decision Date : 04 Aug 2021 13:51:06 (GMT+05:30)
Role : Author
Purpose : Periodic medical examination tests list updation
Meaning Of Signature : I am the author of this document

Signed By : Srinivasa Rao Nimmagadda (nsrinivasarao)
Decision : Approved
Decision Date : 04 Aug 2021 16:47:49 (GMT+05:30)
Role : Reviewer
Purpose : Periodic medical examination tests list updation
Meaning Of Signature : I have reviewed document and found satisfactory

Signed By : Srinivasa Rao Nimmagadda (nsrinivasarao)
Decision : Approved
Decision Date : 04 Aug 2021 16:50:16 (GMT+05:30)
Role : Reviewer
Purpose : Periodic medical examination tests list updation
Meaning Of Signature : I have reviewed document and found satisfactory

Signed By : Janardhan Raju Kalidindi (janardhanraju)
Decision : Approved
Decision Date : 05 Aug 2021 14:44:19 (GMT+05:30)
Role : Approver
Purpose : Periodic medical examination tests list updation
Meaning Of Signature : I have checked this document/collection and approve it for use

Signed By : Pareswar Sahu (pareswarsahu)
Decision : Approved
Decision Date : 26 Aug 2021 14:21:54 (GMT+05:30)
Role : Training Coordinator
Purpose : Periodic medical examination tests list updation
Meaning Of Signature : I have checked that all required users except users mentioned

in, "Training extension approval request"(if any), have completed required training.

Signed By : Appalanaidu(Contract) (appalanaidu)
Decision : Approved
Decision Date : 26 Aug 2021 15:28:44 (GMT+05:30)
Role : QA Authoriser
Purpose : Periodic medical examination tests list updation
Meaning Of Signature : I am granting the Quality Authorisation for the use of this document

Printed By: Danayya Keelu (danayyakeelu)
Reason for Print: Uncontrolled Copy
Print Issue Number: 4

- End of Cover Page(s) -

LUPIN

STANDARD OPERATING PROCEDURE

SOP TITLE	MEDICAL EXAMINATION OF THE EMPLOYEES

SOP CONTENTS

LUPIN

STANDARD OPERATING PROCEDURE

SOP TITLE	MEDICAL EXAMINATION OF THE EMPLOYEES

1.0 PURPOSE

The purpose of this SOP is pre- employment and periodical medical examination of all the employees.

2.0 SCOPE

Applicable to all employees working in LUPIN limited, Visakhapatnam.

3.0 RESPONSIBILITY

3.1 Human Resource Department is responsible to execute the pre employment and periodical medical examination for each employee as per laid procedure.

4.0 DEFINITION

Not Applicable.

5.0 PROCEDURE

5.1 All the employees shall undergo pre-employment medical examination before induction as per ANNEX_VZG_HR_036794 in any of the registered diagnostic center / Lab and they shall be reviewed and submit a "fitness certificate" either from the company authorized qualified medical practitioner or any external registered medical practitioner.

5.2 All the employees shall undergo periodical medical examination twice in a year as per ANNEX_VZG_HR_036398.

5.3 The medical examination reports of all the employees shall be reviewed by the physician or company medical officer and report as per the ANNEX_VZG_HR_036806.

5.4 In the event of any abnormality, the physician or medical officer shall advise the employee, HR head/designee for further course of action.

LUPIN

COVER PAGE

SOP Name:	SOP_MUM_CQA_018247 (1.0)
SOP Title:	CHANGE CONTROL
Effective Date:	30 Oct 2020 00:00:48 (GMT+05:30)
Next Revision Date:	30 Oct 2023 00:00:48 (GMT+05:30)

Document approval:

If this document has been approved, the approval has been made by electronic signature and the evidence to support that is held on the system.This version of the document has been approved for use by the following signatories

Signed By : Sneha Kothiwale (snehakothiwale)
Decision : Approved
Decision Date : 07 Oct 2020 17:28:14 (GMT+05:30)
Role : Author
Purpose : Legacy SOP (CQA-002-05) uploaded in e-DMS
Meaning Of Signature : I am the author of this document

Signed By : Priti Sankhe (pritisankhe)
Decision : Approved
Decision Date : 07 Oct 2020 18:48:12 (GMT+05:30)
Role : Reviewer
Purpose : Legacy SOP (CQA-002-05) uploaded in e-DMS
Meaning Of Signature : I have reviewed document and found satisfactory

Signed By : Jitender khurana (jitenderkhurana)
Decision : Approved
Decision Date : 12 Oct 2020 14:45:26 (GMT+05:30)
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SOP CONTENTS