An Internship Report on

LAB TECHNITIAN
(Title of the Semester Internship Program)
Submitted in accordance with the requirement for the degree of Under the Faculty Guide ship of
M. Shanti Hem
(Name of the Faculty Guide)
Department of
English Chemistry
(Name of the College)
Submitted by
Gout pegrec collège, navasannapeta.
(Name of the Student) 1. vykunta Rao
Reg. No 222200 40 52 009
The state of the s
Department of
English chamistry
(Name of the College)
Gout. Degree college, nonasannapeta.



SHORT-TERM INTERNSHIP

Name of the Student: T. Vykunta Las

Name of the College: Grout Degree college, Narasannapeta.

Registration Number: 2222004052009

Period of internship: 2 Months From: 01-05-24 To: 30-07-24

Name & Address of the Intern Organization: CMS LABORATORIES INDIA PRIVATE LIMITED, # 47-10-50, 3rd Floor, Above Union Bank, 4th Lane, Dwaraka Nagar, Visakhapatnam -530 016.

Andhra University 2023-2024

Student's Declaration

I. T. vykunta Rad a student of BSC. MPC
Program, Reg. No of the Department of English chamistry
College do hereby declare that I have completed the MPC (Group)
Mandatory Internship from 01-05-24 to 30-06-24 in
CMS LABORATORIES INDIA PRIVATE LIMITED under the Faculty
Guideship of M. Shanti Hem (Name of the Faculty
Guide), Department of English, (Name of the College)
Gout Degree collège, Novasannapeta.

1. Ughunta Raw

(Signature and Date)

Official Certification

This is to certify that I vylunta Rav
(Name of the student) 222 200 40 52009 Reg. No. has completed
his/her Internship in CMS LABORATORIES INDIA PRIVATE
LIMITED on lab technician (title of the internship) under my
supervision as a part of partial fulfillment of the Requirement for the
Degree of BSC. MPC (Group), Grout Degree college
(Name of the College).
This is accepted for evaluation.
(Signatory with Date and Seal)
Endorsements
Faculty Guide P. Train Ham
Head of the Department

PRINCIPAL
Principal Degree College
NARASANNAPETA-532421
Srikakulam Dist.

Certificate from Intern Organization

This is to certify that I vylunta Rad
(Name of the Student) 222200405009 (Reg. No), Growt Degree college
Nanasannapeta (Name of the College) underwent internship in CMS LABORATORIES INDIA PRIVATE LIMITED from 01-05-24 to 30-06-24
The overall performance of the intern during his/her internship is found to be Saturfactory (Satisfactory/Not Satisfactory).

Tyme

Authorized Signatory with Date and Seal

CMS LABORATORIES INDIA PVT. LTD.

Plot No- 121-C Floor No:3, Mohan Mansion, Dwarakanagar, Visakhapatnam (Urban), Visakhapatnam- 530016, Andhra Pradesh CIN: U78300AP2024PTC113667

Acknowledgements

It gives me an immense pleasure and pride to express my sincere gratitude and respect for my teacher, internship supervisor and guide _________, for his expert and inspiring guidance and support throughout my internship.

Also, I am very grateful to the Head of the Department of solution, and the other faculty members of the chemistry Department for being a source of support during this project period.

I would like to extend my gratitude to my Principal Sir proposition for providing me all the necessary facilities that were required for successful completion of this internship.

I also thank CMS LABORATORIES INDIA PRIVATE LIMITED Visakhapatnam, for providing internship opportunity.

My special thanks to the Managing Director, G. Jagadeeswara Rao, for his constant support, encouragement and timely advice.

I'm deeply grateful to my internship trainers, for their invaluable guidance and support. From the moment I started, they took time to get me know the importance of various skills and understand my goals for the internship. Their constructive feedback helped me to improve my skills in which I have interest and approach my tasks with great enthusiasm.



CONTENTS

S.No	NAME OF THE CONTENT	Page No
 1.	WHAT IS INTERNSHIP?	1
2.	CHAPTER - 1: EXECUTIVE SUMMARY Learning objectives Learning outcomes Description of intern organization Description of the course	2-4
3.	CHAPTER - 2: OVERVIEW OF THE ORGANIZATION • Introduction of the organization • Policy of the organization • Organogram of CMS	5-7
	CHAPTER - 3 : DESCRIPTION OF THE ACTIVITIES Weekly report-1 Activity log for the first week	8-40
	Weekly report-2 Activity log for the second week	
	Weekly report-3 Activity log for the third week	
	Weekly report-4 Activity log for the fourth week	
	Weekly report-5 Activity log for the fifth week	
	Weekly report-6 Activity log for the sixth week	
	Weekly report-7 Activity log for the sixth week	
	Weekly report-8 Activity log for the sixth week	
	Evaluation	41-45



WHAT IS INTERNSHIP?

Internship is an integral platform for anyone to gain experience in the actual work place. Thus, Internship is a good opportunity for students to learn, to gain experience and also to make preparations. Men learn through experience and real life is full of different kinds of experiences. We will encounter many difficulties and obstacles and with experiences we are expected to be able to encourage and complete the process. Experience in my eyes is a very valuable thing in life because we need to be brave in taking risks.

It is also not something that we simply create, but we need to undergo through it. By doing my internship in an actual work environment, it helps me to know and discover myself from different angles. It also helps me to control and develop my attitude towards dealing with different kinds of people and situations. I have decided to take the internship course to grab the golden opportunity to apply theoretical knowledge that I have in a real working environment. Through college, I learned about theories but doing an internship, I learned a practical approach on dealing with the real world. Even though it was not that much, it still has profound results in some aspects of my life. In some ways, through internship, I also have learned that I am still lacking as an individual and employee. Internship helps me to identify my weaknesses and also my strengths. "Experience without theory is blind, but theory without experience is mere intellectual play". The other reason why I choose to take the internship as preparation for more challenging work environment and situation. Our life in college is incomparable with real working experience. A working life is very challenging as it requires great effort, commitment and abilities; those are something that I need to be prepared and trained to. Apart from that, I really want to gain professional experience and skills by taking the internship course. At the same time, I also want to improve my communication skills and ability to interact with people. I realize that by being part of society, I will need to meet different people around the office and I will have to communicate with them to settle their needs. Undergoing internship also helps to make me learn on how to work in a systematic organization. It helps me to learn how to be independent in accomplishing my tasks.

CHAPTER - 1

(EXECUTIVE SUMMARY)



.1 LEARNIG OBJECTIVES:

To aim to provide an understanding of daught production particularly prescription production in small scale, with special focus on liquid and semi-solid systems.

the course passider daug administration acuter, physiochemical aspects of daug formulation and desagen, an well an consideration augustation their preparation including stability

asservment.

systems that are used in production of phonima catical forms with origine ments for sterility.

the main focus is the firmulation and poseduction of oval, solid and other conventional desage firmy of administration

and the science behind them.

20UTCOMES ACHIEVED

. Idea and basic issuer in the pharmacetical industry.

RED and pharmacatical development in the pharmacautical industry.

use technologies in the pharmaceutical industry.

note of biological paraducts and pharmaceutical biotechnology in the industry.

ticensing down management and quality control issues in licensing down marksting, pharmalcovigilance activities.

About solid, liquid, semisolid, garrour phormaceutical pouduction technologics.



3 INTERN ORGANIZATION:

CMS LABORATORIES INDIA PRIVATE LIMITED is a partnership company established in 2017 which is accredited and affiliated by SSC under non PMKVY with a motto of pharmaceutical skill levelopment with placement linked training programs. After providing training on various courses comes ander Pharmaceuticals are Chemist Production (pharma, cosmetics and biologics)-V2- API/Bulk drug, Production Machine Operator Active Pharmaceutical Ingredient (API)/Bulk drug V3-non sterile manufacturing, Lab technician- research and quality control-V2 Wet lab ,Assistant manufacturing and backaging (pharma, biologics and medical devices)_V3. Courses offered as part of IT & ITeS are BPO(voice/non voice), Customer Care Executive(CCE), Tech Support Engineering. Courses offered for Engineering background are Robotics, Embedded systems, AutoCAD, Cloud Technologies. Skill training CMS will validate and furnish certificate from Life Science Sector Skill Development Council (LSSSDC). More than 2780 trainers are working in various pharmaceutical companies across PAN India. To present skilled man power to pharmaceutical industry along with certification as manufacturing assistants.

.4 DESCRIPTION OF COURSE:

A quality control chemist (QC chemist) is a specific type of laboratory chemist, whose posimony duties are to measure and poseducts according to industry specific standard posedures Jobs are typically in the pharma centical or manufacturing fields.

quality control in the phormaceutical industry aims to verify and test in medicine at various stages of production to ensure every product is of the highest quality. Quality control also involves indentifying product of the diferts and fixing these problems with corrective techniques and measures.

production chamists work for manufacturing companies and one involved in developing products obtains through humical reactions, such as cosmetics, production chamists takegoize on effective methods to maximize the products reality and efficiency, following safety regulations and legislation procedures.

they also sun quality checks on the components to verify their safety and minimize their environmental effect. A psuduction chemist must have excellent organizational and contical thinking skills are well are having extensive knowledge of the scientific industry.

NTRODUCTION OF THE ORGANIZATION:

bout CMS LABORATORIES INDIA PRIVATE LIMITED Empowering Youth for a Brighter Future.

At CMS LABORATORIES INDIA PRIVATE LIMITED, we're on a mission to transform lives through skill evelopment. Our vision is to create robust and high-quality institutions that cater to the diverse needs of dividuals, helping them reach their goals and aspirations. We believe in providing unwavering support, ath a focus on quality assurance, information systems, and comprehensive training programs aimed at impowering unemployed youth to secure a better life.

ur Approach:

ridging the Gap between Academics & Industries:

We're committed to closing the gap between Academics & Industries by developing the skills of unemployed youth and connecting them with opportunities in the private sector.

or Strengths:

Empowering Potential and Unleashing strengths, crafting success. CMS Skill Center fosters determination and resilience in young minds. We turn interests into stepping stones on the path to triumph. Your journey to success starts here.

ertification for Excellence:

Founded in 2017, CMS is a partnership company dedicated to Pharmaceutical Skill Development with Placement-Linked Training Programs. We offer a range of certified courses including Manufacturing Assistant, Production Chemist, Production Machine Operator, Lab Technician, Industrial Electrician and Solar PV Installer.

ndustry-Aligned Training:

After completing our skill training programs, CMS provides certification recognized by the Life Science Sector Skill Development Council (LSSSDC), ensuring that our graduates are industry-ready.

mpactful Results:

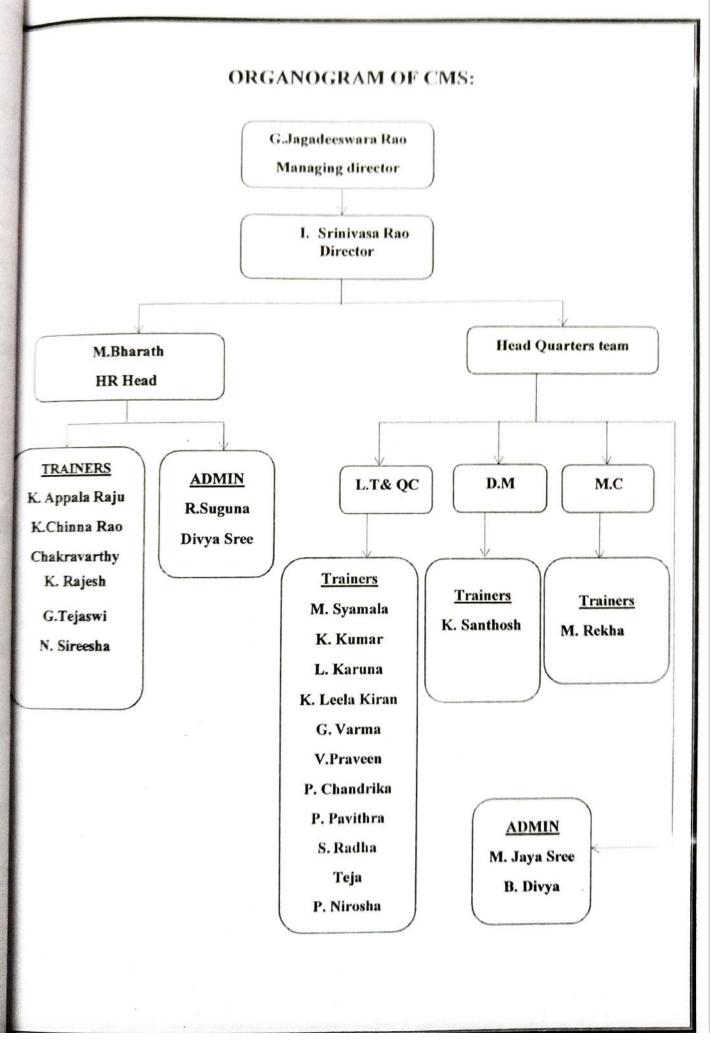
With over 5289 trainees now gainfully employed in various Pharmaceutical Companies across India, we take pride in our track record of making a significant difference in the lives of our graduates.

Corporate Social Responsibility (CSR) Commitment:

As part of our Corporate Social Responsibility (CSR) initiative in collaboration with SDI Visakhapatnam (a group of Public Sector Oil Companies), we are dedicated to enhancing the employability and prospects of youth across the nation.

Join us on our journey to empower the youth, build a skilled workforce, and create a brighter future. At CMS Skill Center, we believe that every individual deserves a chance to shine, and we're here to make it happen.





WEEKLY REPORT-1

OBJECTIVE OF THE ACTIVITY:

few guideliner about different and also segulatory agencier pharmacopoeian:

DETAILED REPORT:

industry : Adatail over view about different sector in industry and their typer.

2. life science sector: Awareness of phonomacouticals and life science with combination of medicine, health and food

s. Regulatory agencies: Given detail knowledge from various country agencies about their suscentch centre, plant, laboratory etc. with supply of medicinal plants.

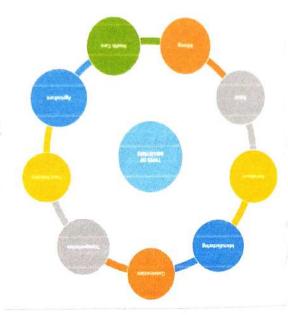
4. Pharmacoutical industry: Include with organization and biotechnology and contract ouseanch sectors.

5. Indian phanmaceutical industry: over view indetail with genetic drugs, vacciner and also for different we and other country food and drug administration with their percentage.

6. phonmacopoeia: It consists of pouponations of medicals and it is different from each and other countries and it was issued under the government.

Intouduction

industry: it is defined as an economic activity concerned with the processing of rew materials and manufacture of goods in factories it is also the aggregate of manufacturing or technically productive to enterprises in a particular field after named after it's principal product the term industrial resolution coined by arnold toynbee.

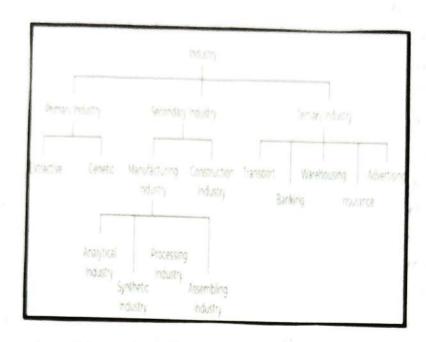


the goods sold by industry can be either used by other companies for further possibilition or can be used by the end ensumers for final consumption the goods possible in the former case one known as possible goods. For example machinery, tools etc. however the goods possible in the latter case one known as consumer goods. For example, bound, milk, butter, cloth, growies, medicines etc. An organization can also possible materials that can be used by the other companies to further possess and convert them into finished goods.

These goods one known as intermediate goods.

for example subber, copper, plastic etc. industry can be further classified into those points: porimony, secondary and tentiary industry.





pharmacetical industry:

the pharmaculical sub sector includer all the companier involved in the any of following: manufacturing and it sale of drugs formulations for india as well as for exposits active pharmacoutical ingoredient (API) manufacturing contract, manufacturing of drug formulations / neutrocoutical products and sale.

there are various types of pharmaceutical industraies.

Research and development (R&D) firmy.

- · pharmaceutical manufacturer
- · biokehnology from.
- · genetic drug manufacturers
- · contract suscench organizations (cro's)
- · contract development & manufacturing organizations
- · pharmaceutical distributions.
- · speciality pharma conticals.

Biotechology sub sector:

the biotechnology subsected includer all companier involved in manufacturing and sale of biotech driven products like vacciner, serum, bio fertilizer etc.

Regulation agencier:

To chause the every paroduct which comer out of manufacturing unit is of high quality and is sale for manufacturing unit is of high quality and is sale for consumption in every country the government oregulater every stage of buisiness operations starting forum the overy stage of buisiness operations starting forum the overy massement contents, plants and laboratories and every was house and shops used to store and sale these paroducts only a valid license odder company can manufacture on supply the medicinal paroducts.

Country

Regulatory Agency

Country	
United States of America	FDA(Food and drug administration
European Union	European Medicines Agency
Canada	Health Canada
	Health Products and Food Branch(HPFB)
	Therapeutic Products Directorate (TPD
Australia	Therapeutics Goods Administration
	(TGA)
India	Central Drugs Standard Control
	Organization
Globally	World Health Organization (WHO)

Indian phonmaceutical industry:

- · India is the largest poweriden of genetic drugs globall and is known for its affortable vacciner and genetic medications.
- · Genetic drugt over the counter medications, bulk drug vaccines, contract oresearch & manufacturing, bio, similar and biologics are some of the major segments of the indian phanma industry.

postosiption about API: In the pharmaceutical industry and API of active pharmaceutical ingredients orefers to the biologically active component of a doing that products it's desired therapautic effect. API are coulcial in the formulation and preduction of pharmaceutical preducts.

* Description about manufacturing & formulations:

combination with experients in the firmulation of a dang the API is combined with other inactive substances known as excipients these excipients can include binders fillers, lubricants and coatings among others to create a stable and administrable dosage firm.

* ware house (NH): In the pharmaceutical industry a ware house plays a conucial orde in the storage, distribution and management of pharmaceutical products including druggy, vacciner, medical devicer and related materials storage ware houser are used to store pharmaceutical paraducts in a controlled environment.



* quality Control (QC):

pharmaceutical powduction vigorous testing and are quality check are performed and various stages of production and sure that final product given the orequired quality standard.

this includer testing the naw materials and manufacturing factor test on finished.

to verify their posstection purity and check



UV spectroscopy

opertroscopy or ultra violet visible spectroscopy is an analytical technique commonly used to determine the absorbance of uv and visible light by chemical substances this method powerides essential data on the molecular stancture and concentration of compounds in a sample key components:

- 1. light source
- 2. Monochromatic
- 3. sample holder
- 4. deketőr



Typer of UN spectroscopy:

absorption in both the ultro violet and visible appect roscopy vaccum un spect roscopy: used for wowelengthy below 200 nm, orequiring specialized equipment on there would length, and absorbed by our.

Dissolution

to the process by which a solid substance dissolver in a liquid medium to firm a solution this is a contical quality attribute for deal dosage forms such as tablets and capsular because it affects the downer bioavailability i.e. the make and extent to the which the active pharma contical ingredient (API) is absorbed from the down product and becomes available at the site of.



key aspects of dissolution testing:

- 1. purpose
- 2. methodology
- 8. para meterr
- 4. oregulatory imporantate
- 6. Applications.

sonicated

A sonication or ultrasonic homogenizer is a homogenizer is a laborationy device that user high forequency sound waver to agilate and disverpt particler in a agilate and disorpt particler in a somple, typically a liquid.

this process is known as sanication.



ultrosonic possible: this is the part of the sonicator that ultrasonic waver it's typically immersed disactly into the sample.

forequency Range: most sonicator operate at forequencier between 20 KHZ and 40 KHZ which are above the audiable orange at of human heaving.

VORTEX SHAKER

A vortex shalon of the simply called a vortexen is a laboratory device that is used to mix all of right liquid quickly it consists of an electric motor with a vertically a liquid shift attached to upped suphur piece wanted slightly off center as the motor now the subber piece oscillator prapidly in a cioncular

Student Self Evaluation of the Short-Term Internship

Student Name: T. Uylunda Ras Registration No: 2222004052009

Term of Internship:

short term internship

Date of Evaluation: 26-07-24

Please rate your performance in the following areas:

Rating Scale:

Letter grade of CGPA calculation to be provided

Oral communication	1	2	3	4	5
Written communication	1	2	3	4	5
Proactiveness	1	2	3	4	
Interaction ability	1	2	3	4	5
Positive Attitude	1	2	3	4	5
Self-confidence	1	2	3	4	5
Ability to learn	1	2	3	4	
Work Plan and organization	1	2	3	1	5
Professionalism	1	2	3	4	5
Creativity	1	2	3	4	5
Quality of work done	ı	2	3	4	5
Time Management	1	2	3	4	5
Understanding the course	1	2	3	4	5
Achievement of Desired Outcomes	1	2	3	4	5
OVERALL PERFORMANCE	1	2	3	4	5

Date:

T. yfunta Rad Signature of the Student



Evaluation by the Supervisor of the Intern Organization

Student Name: T. Uykurta Rad Registration No. 2222004052009

Term of Internship: Short term internship From: 01-05-24 To: 30-06-24

pate of Evaluation: 26-07-24

Organization Name & Address: CM5 LABORATORIES INDIA PRIVATE LIMITED # 47-10-50 3rd floot, above union Bank, 4th Lane, Dwaraka wagor, Visialkhap atnam, 530016 Number:

Please rate the student's performance in the following areas:

Rating Scale: 1 is lowest and 5 is highest rank

1	Oral communication	1	2	3	E	5
2	Written communication	1	2	3	4	5
3	Proactiveness	1	2	0	4	5
4	Interaction ability	1	2	(3)	4	5
5	Positive Attitude	1	0	3	4	5
6	Self-confidence	1	2	3	4	5
7	Ability to learn	1	2	. 3	4	1
8	Work Plan and organization	1	2	3	4	(5)
9	Professionalism	1	2	3	0	5
10	Creativity	1	2	3	4	5
11	Quality of work done	1	2	3	4	0
12	Time Management	1	2	3	4	5
13	Understanding the course	1	2	3	4	5
14	Achievement of Desired Outcomes	1	2	3	1	5
15	Regularity	1	2	3	0	5
16	OVERALL PERFORMANCE	1	2	3	4	5

Date: 26/7/2024

Signature of the Supervisor



INTERNAL ASSESSMENT STATEMENT

Name of the Student: T. vykunta Raw

Program of Study:

Year of Study: 2023 - 24

Group: And BSC. MPC

Register No/H.T. No: 222200 4052009

Name of the College: Gravt. Degree college, Narasannapeta.

University:

Dr. BR Ambedkar university.

Evaluation Criterion	Maximum Marks	Marks Awarded
Activity Log	10	lo
	30	30
	10	05
The second secon	. 50	45
	Activity Log Internship Evaluation Oral Presentation	Evaluation CriterionMarksActivity Log10Internship Evaluation30Oral Presentation10

Signature of the Faculty Guide

Date:

EXTERNAL ASSESSMENT STATEMENT

Name of the Student: T. Uykunta Ras

Program of Study: MPC

Year of Study: 2023 - 24

Group: And BSC.MPC

Register No/H.T. No: 2222004052009

Name of the College: Grant. Degree college, Norrasannapeta.

University: Or. BR Ambedican university.

Sl. No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Internship Evaluation	80	70
2.	For the grading giving by the Supervisor of the Intern Organization	20	20
3	Viva-Voce	50	75
	TOTAL	150	135
CP	AND TOTAL (EXT. 50 M + INT. 100M)	200	45+135

Signature of the Faculty Guide

Signature of the Internal Expert

M. Ninsha.

Signature of the External Expert

Signature of the Principal with Seal

PRINCIPAL COVT. DEGREE COLLEGE NARASANNAPETA-532 421

Srikakulam Dist.