An Internship Report on
lab techpnécian
(Title of the Semester Internship Program)
Submitted in accordance with the requirement for the degree of Escoot Under the Faculty Guide ship of
(Name of the Faculty Guide)
Department of
chemistry, GDC, Narasannapeta
(Name of the College)
Submitted by
(Name of the Student)
Reg. No
2222004049001
Department of
chenistry
(Name of the College)
GDC, Narasannapeta



# SHORT- TERM INTERNSHIP

Name of the Student: Bagu. Jyothi

Name of the College: Grovt degree college (Navasanrapeta)

Registration Number: 222200 4049001

Period of internship: 2 months From: 01/05/24 To: 30/06/2024

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

Program, Reg. No. 2121004049019 the Department of chonistry
Program, Reg. No. 2221004049019 of the Department of chemistry
College do hereby declare that I have completed the (Group)
Mandatory Internship from 01/05/2024 to 30/06/2024 in
CMS LABORATORIES INDIA PRIVATE LIMITED under the Faculty
Guideship of Meshanthiham (Name of the Faculty
Guide), Department of chewistry, (Name of the College)
Govt degree collège.

B. Jyothi (Signature and Date)

# Official Certification

This is to certify that Bagu. Tyothi
(Name of the student) 9222004049001 Reg. No. has completed
his/her Internship in CMS LABORATORIES INDIA PRIVATE
LIMITED on tab technician (title of the internship) under my
supervision as a part of partial fulfillment of the Requirement for the
Degree of BSc (CBZ) (Group), Grovt. Legrer collège
(Name of the College).
This is accepted for evaluation.
(Signatory with Date and Seal)
Endorsements
Faculty Guide M. Drant Ham
Head of the Department
all the same of th
Principal PRINCIPAL GOVT. DEGREE COLLEGE

NARASANNAPETA-532421

# Certificate from Intern Organization

This is to certify that Fagu . Tyothi
(Name of the Student) 2222004049014 (Reg. No), Tant degree
college (Mana Sannapela) (Name of the College) underwent internship
in CMS LABORATORIES INDIA PRIVATE LIMITED from 61 65 2624 to
30 06 2024

The overall performance of the intern during his/her internship is found to be satisfactory/Not Satisfactory).

77-11

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 

P. Specvidgo, 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 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.



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#### 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)



# 1.1 LEARNIG OBJECTIVES:

. To Nim to provide an understanding of drugs produc -ction particularly prescription polarition in small scale, With special focus on liquid and semi-soid systems · The course provides drug Admistration routes, physiochemical Uspects of drug formulation and obsage

as Well as consideration regarding their preparation including stability Assessment.

· To promote an introduction methods technology and quarity system that age used in the production of pharmacutical forms with opequirments for gertisty. · The main focus is the formulation and productions

glal, solid and other conventional dosage forms of Administration and the science behind them.

· Idea on basic issues in the pharmaceutical industry

· RED and phaymaceutical development in the phay -maceutical industry.

· Learned drug production technologies and process.

· New technologies in the pharmaceutical industry

Role of biological products and pharmaceutical bio -technology the industry.

· About quality Management and quality Control issues in licensing drug Marketing, pharmacovigi -lance Activities

· About Solid, liquid, Semisolid, gaseaus phonim -contical production technologies.

#### 1.3 INTERN ORGANIZATION:

CMS LABORATORIES INDIA PRIVATE LIMITED is a partnership company established in 2017 which is accredited and affiliated by SSC under non PMK VY with a motto of pharmaceutical skill development with placement linked training programs. After providing training on various courses comes under 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 packaging (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.

#### 1.4 DESCRIPTION OF COURSE:

A quality control chemist (gc chemist) is a specific type of labolatory chemist, whose primary duties age to Measure and products exceeding to industry specific Standard procedures. Jobs are typically in the pharmaceutical & Manufacturing fields. quality control in the phaymaceutical industry aims to verify and test the Medicine at Variousslages of paraduction to ensure every paraduct is of the highest quality guarity control also involves identifying pra -ct of the defects and fixing these problems with corrective techniques and Measures. peraduction chemist Wark for Manujacturing Compa - nics and age involved in developing products dotains through chemical reactions, such as casmetic production chemist Strategize on Effective Methods to maximize the populates quality and Efficiency -following safety regulations and legislation procedure They also gun quality checks on the components. to verify their safey and minimize their Environmen effect. A production chemist

### INTRODUCTION OF THE ORGANIZATION:

### About 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 development. Our vision is to create robust and high-quality institutions that cater to the diverse needs of individuals, helping them reach their goals and aspirations. We believe in providing unwavering support, with a focus on quality assurance, information systems, and comprehensive training programs aimed at empowering unemployed youth to secure a better life.

#### Our Approach:

### Bridging 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.

#### Our 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.

#### Certification 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.

#### Industry-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.

#### Impactful Results:

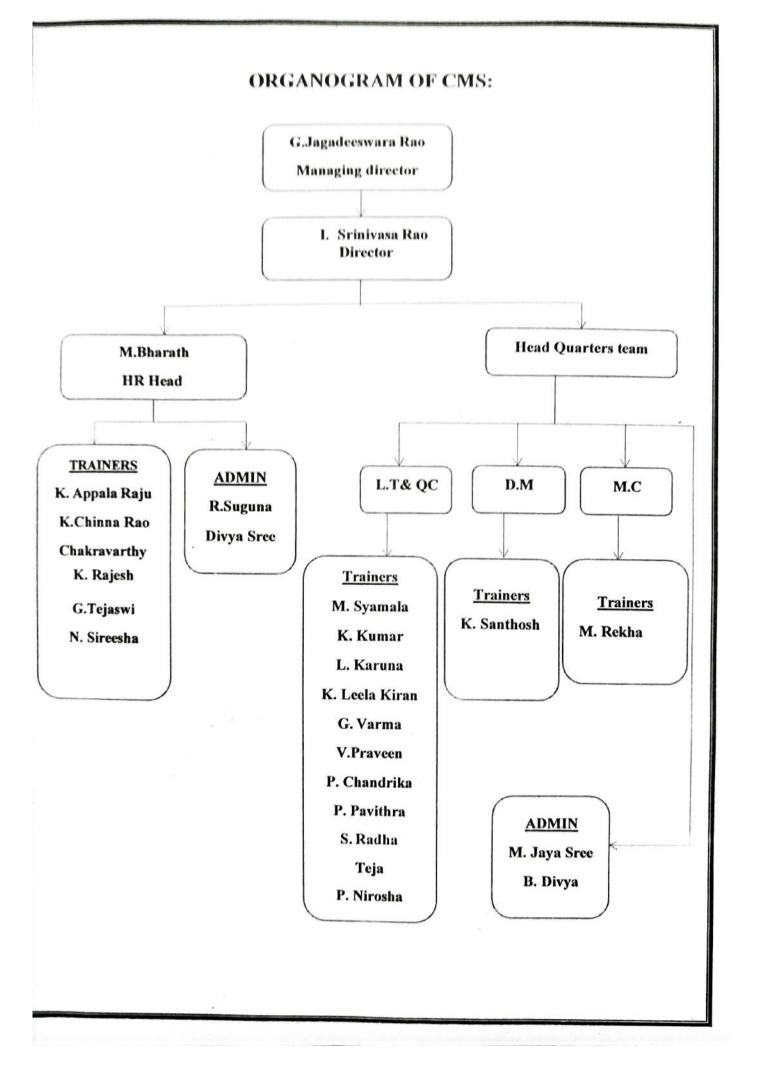
With over 5289 trainees now gainfully employed in various Pharmaceutical Companies across India, we take pride in our track record of making a significant difference in the lives of our graduates.

#### 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:

Leagued about phymaceutical industry sect - 815, few guidelines about different and also regulatery electes, phymacopoecias.

#### DETAILED REPORT:

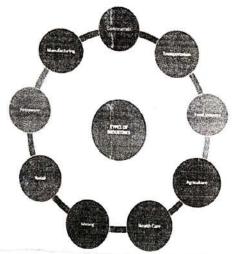
- 1 Industry: A detail everyiew about different sectors. In industry and their types.
- 2. Life science sector: Dungeness of phagma conticals and life science With combination of Medicine, hearth and food
- 3. Regulatory Agencies: Given detail knowledge from various country Agencies about their Research center, plant, laboratory etc. With supply of Medicinal plants.
- 4. phanmaceutical industry: Include with Eight nitation and biotechnology and contract rese auch section,
- 5. phagmacopeeia: It consist of preparations of Medicals and it is different from Eachand other countries and it was issued the government

ACTIVITY LOG FOR THE FIRST WEEK PERSON				
DAY & DATE	DESCRIPTION OF THE ACTIVITY	LEARNING OUTCOMES	PERSON IN-CHARGE SIGNATURE	
DAY-1	Industry and life science Sect 81	Gain knowledge in various sectors aware on phagma		
DAY-2	phaymaceutical	Become awaye of sectors in phasimaceutical industry		
DAY-3	Regulatory	Inowing about phogmaceutical expensies		
DAY-4	Indian phayma - conticul inplustry	Awage of diffe -rent phaymaceu -tical Markets.		
DAY-5	phagmacopoeia			
DAY-6	Record	Activity of Whole Week.	K-I value in the	

# \* INTRODUCTION

Industry: -

It is defined as an Economic Activity concerned with the processing of raw materials and manufacture of goods in factories. It is also the algregate of Manufacturing of technic field, often named after principal products. The term industrial operation coined by almodial toynbee.



The goods Sold by industry Can be either used by other companies for fronther production or can be used by the end consumers for final consumption. The goods produced in the former case are known as producer goods for Ex. Machinery, cloth, grocevies, Mediciner etc. an organization can also produce Madonials can be used by other companies.

These goods are known as intermediate goods. In example, rubber, copper, plas tic, etc. Industry can be twother class igied into three parts: primary, secon - day and territionly industry.

#### Ronadech & Exercisernant

n-hoat:

No Tech Resourch

Medical Services

Boinformatics

Chemist

Medical Equipment

LUTE SCIENCES & HEALTHCARE Chrisca Research

great seven

Micro Biologist

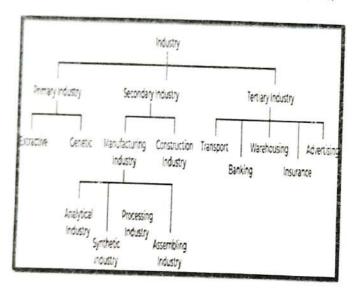
Product Management

Molecular Biology

# Life science sects :-

the life sciences age supportive in bettering the standard and quality of life. life sciences have applications in Medicine, health, phaymaceutical, food science and adjiculture industries usually we define. Tife science as all sciences. that have to go do With "aganisms" like animals, human beings and plants. The industrial units involved in discovery! Research, development, Manufacturing, distribution and sale of Medicines.

Technologies, biotechnology, life systems technologies, food processing, biompedical devices, environmental, institutions, and organizations that devote the Majority of their efforts in the varied stage of Research, development, commercialization and technology transfer.



The pharmaceutical Subsector includes.

all the companies involved in any of following.

Manufactuoing and of Sale of drugs. formulations

of india as Well as for exports Active

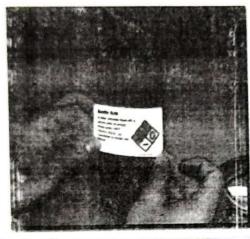
pharmaceutical ingridient (Apr) Manufactuoing

contract Manufactuoing of drug formulations.

Nutraceutical products and sale.

pharmaceutical products and sale.

\* Labeling of chemicals:Labeling chemicals perpenty is crucial
for Ensuring Sujety in the workplace and
properting socialents
properting socialents
that and information



-> Hazard stamonts

-> precautions statements.

-> Signal Words

-> Manufactures information

-> Stopage and handling institutions

-> Nate of preparation / Expiration

-> Secondary Containers

If transferring chemicals to Secondary

Containers, ensure that they are properly

Labelled in the same intomation.

# \* Wilutions: -

Milutions are Essential techniques used in Laboratories to achieve desired Conferminations of solutions. proporly partorning dilutions ensures accuracy and reliability in Experiments and tests.

Types of dilutions: -

· Simple dilution :-

Astraight forward dilution where a volume of stack solutions is mixed with a volume of solvent to achieve desired conce - intration.

· segial conce dilution: -

Astepuise dilution where Each Subsequent dilution uses the previous dilution as Stock & solution.

- · First dilution: mix Imly stock solv with 9ml of solvent to achieve 1:10 dilution.
- . seconddilution: Int-from first to mix

# PH meter: -

A pH meter is a device used to meas - unge the acidity of alkarinity of a solution indicating its pH level it typically consists of a probe connected to an electronic meters that displays the pH reading.

This instruments is Essential in Laboratory, food production, water quairly testing, and Various industrial process to ensure chemical and product satter



# Student Self Evaluation of the Short-Term Internship

Student Name: Bagu. Tyothi

Registration No. 222200404909

Term of Internship: 2 months From: 01 65 24 To: 30 06 24

Date of Evaluation: 26/07/2024.

Please rate your performance in the following areas:

Rating Scale:

Letter grade of CGPA calculation to be provided

1	Oral communication	1	2	3	4	5.
2	Written communication	1	ž	3	4	5
3	Proactiveness	1	2	3	4	5
4	Interaction ability	1	2	3	4	5
5	Positive Attitude	1	2	3	4	5
6	Self-confidence	1	2	3	4	5
7	Ability to learn	1	2	-3	4	5
8	Work Plan and organization	1	2	3	4	5
9	Professionalism	1	2	3	4	5
10	Creativity	1	2	3	4	5
11	Quality of work done	ī	2	3	4	5
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	4	5
15	OVERALL PERFORMANCE	0 a 1 9 a	2	3	4	3

Signature of the Student

Date:



# Evaluation by the Supervisor of the Intern Organization

Student Name: Bagu. Jyothi

Registration No. 2222004049001

Term of Internship: 3 won the

From: 01/05/24 To: 20/06/24

Date of Evaluation:

26/07/2024.

Organization Name & Address: CMS LABARATIRES INDIA PRIVATE LIMITED

Duarakanagar, vishakhapatnam

Name & Address of the Supervisor with Mobile 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	4	Maril Charles
2	Written communication	1	ž	3	4	<b>5</b>
3	Proactiveness	1	2	ž	4	5
4	Interaction ability	1	2	3	4	5
5	Positive Attitude	1	2	3	¥	5
6	Self-confidence	1	2	3	4	5
7	Ability to learn	1	2	. 3	4	5
8	Work Plan and organization	1	2	3	4	5
9	Professionalism	1	2	3	4	5
10	Creativity	1	2	3	4	5
11	Quality of work done	1	2	3	4	
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	4	5
15	Regularity	1	2	3	4	5
16	OVERALL PERFORMANCE	1	2	3	4	5

Date: 26/7/2024

Signature of the Supervisor



# INTERNAL ASSESSMENT STATEMENT

Name of the Student: Bagu. Tyoth?

Program of Study: ○B≥

Year of Study: 2nd BSc (2023-24)

Group: CBZ

Register No/H.T. No: 22220040490401

Name of the College: Govt. degree college (Navasannapela)
University: Dr. B.R. Ambedkar university

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	10	10
2.	Internship Evaluation	30	30
3.	Oral Presentation	10	10
	GRAND TOTAL	50	

Date:

Signature of the Faculty Guide

# EXTERNAL ASSESSMENT STATEMENT

Name of the Student: Bague . Tyothi

Program of Study: CB ?

Year of Study: I rd BSC (2023-24)

Group: CBZ

Register No/H.T. No: 2222004049001

Name of the College: Govt. degree college (Narasannapeta)

University: Dr. B. R. Ambedkar 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	50
	TOTAL	150	140
GR	AND TOTAL (EXT. 50 M + INT. 100M)	200	50+140=1

M. Shawi How Signature of the Faculty Guide

Signature of the Internal Expert

M. Nixosha Signature of the External Expert

Signature of the Principal with Seal

GOVT. DEGREE COLLEGE NARASANNAPETA-532 421 · Srikakulam Dist.