

**GOVERNMENT COLLEGE(A) RAJAHMUNDRY**



**DEPARTMENT OF CHEMISTRY**

**2022-23**

**NAME OF THE ACTIVITY: INDUSTRIAL VISIT(FOR STUDENTS )**

**DATE:25/03/2023**

**ORGANISED BY: DEPARTMENT OF CHEMISTRY.**

The department of chemistry organized an industrial tour to a famous pharmaceutical company named Wanbury Pharmaceuticals, located in Tanuku, on March 25, 2023. 55 (25 girls and 30 boys) PG third semester students visited the company by accompanying the lecturers, Dr. B. Mallikarjun, M. Sudhakar Rao, M. Padmaja, and G. Tejaswini. Students are enriched by their industrial exposure to pharmaceutical company in various aspects. There, the students visited the warehouse, production, research and development, and quality control departments. They clarified their doubts regarding the preparation of active pharmaceutical ingredients in their labs and were motivated by them. HPLC, GC, FTIR, UV-Vis spectrophotometers, and large-scale production equipment in labs were visited.

**Wanbury Limited**

Doctors Organic Chemicals Division  
K. Ilindalaparru - 534 217,  
Iragavaram Mandal, West Godavari District,  
Andhra Pradesh, India.

Tel : + 91-8819-284 249, 284 349

Fax : +91-8819-284 350

**Letter of appreciation**

This is to certify that the Department of Chemistry have conducted a field visit to Wanbury limited Tanuku with II M.Sc chemistry students students of along with four Lecturers Dr.B.Mallikarjuna, M. padmaja, G. Tejaswani and M.sudhalar, on 25-03-2023. The students actively involved and gained thorough understanding about the industrial processes and the working principles of various apparatus. Their keen observation and enthusiasm to learn new skills is highly appreciated.

**For WANBURY LIMITED**

**Authorised Signatory  
Signature**

TANUKU,

25-03-2023

# Industrial Report

## Wanbury. LTD (TANUKU)

Wandury Limited, one of the Indias fastest growing Pharmaceutical Companies among the Top 50 Companies in India(as per ORG-IMS) has a strong presence in API global market and domestic branded formulation

### **Active Pharamaceutical Ingredient:-**

- ¥ Wanbury has a basket of over 13API products
- ¥ It is the largest manufacturer of Metformin with over 8500 tons per year
- ¥ Wanbury exports to over 50 countries 65% of which compriiser of regulated markets
- ¥ Has two us –FDA approved multi product API facilities and one plant under operation for semi-regulate markets.
- ¥ Has been the preferred supplier to some of the top five generic players of the world.

### **FOMULATIONS:**

- ¥ Pan India presence in ethical formulations with a portfolio of close to 70 brands.
- ¥ Strong presence in ethical formulations as well as gynecology, Othopedics, Antibiotics, Anti inflanmatoly analgesics

### **MAIN PRODUCTS:**

- ¶ Metaformin
- ¶ Metaformindc
- ¶ Tramadol
- ¶ Sertraling
- ¶ Diphenhydramine HCL
- ¶ Diphenhydramine Citrate
- ¶ Medenamic Acid
- ¶ Parocxetine Hemihydrate
- ¶ Promethazine
- ¶ Glucosamine



¶ Clopidogrel

¶ Levitiracetam

¶ Carvedilol Phosphate Monohydrate

## **Pharmaceutical Processing:**

Is the process of drug Manufacturing starting from warehouse storing of chemical crude raw (materials). Drug manufacturing and can be broken down into a range of unit operations such as BLENDING, GRANULATION, MILLING, COATING, TABLET PRESSING, FILLING AND OTHERS The Pharamaceutical Manufacturing process has precise reuirements and manufacturing guidelines in terms of quality.

### **Industrial Visit Objectives**

The objective of the Industrial Visit is to help students gain first hand information regarding functioning of the industry which presents the students with opportunities to plan organize and engage in active learning experience both inside and outside the classroom

#### **Specific Objectivies for the Students:**

- ¥ To understand the process
- ¥ To experience chemistry at work
- ¥ To become aware of the role of different people in an organization
- ¥ To become aware of carrer opportunities
- ¥ To recognize the need for health and safety in the work place
- ¥ To focus students on specific aspects of their studies

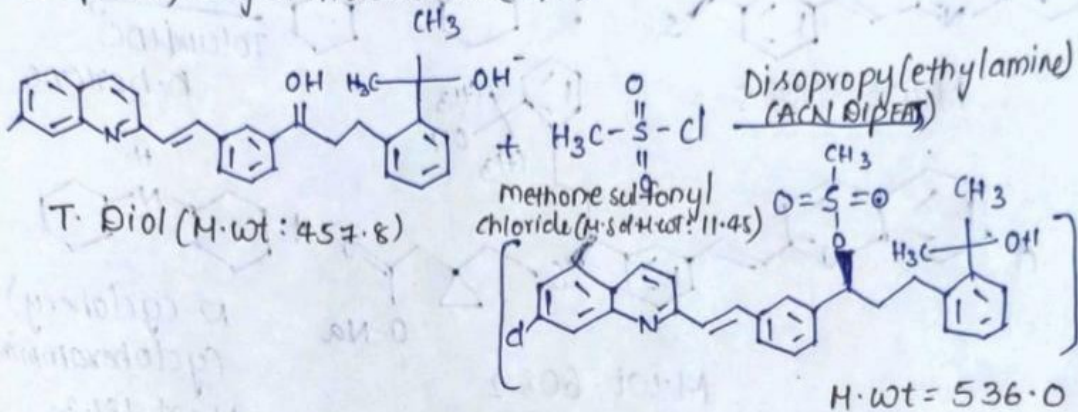
#### **Content of the Questionnaire:**

- ¥ Considerations of the location of the industry
- ¥ Explore the processes running in organization
- ¥ Investigate polices and Procedures
- ¥ Explore the compliance of polices and procedures
- ¥ Analyze the economic of the Process

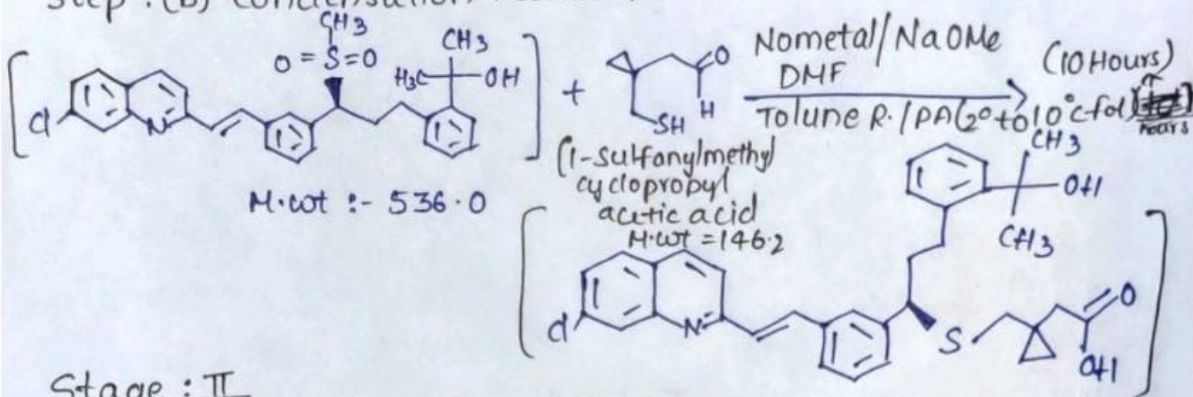
# MONTELUKAST SODIUM

Stage : I

Step : a) Mesylation reduction (step:1)

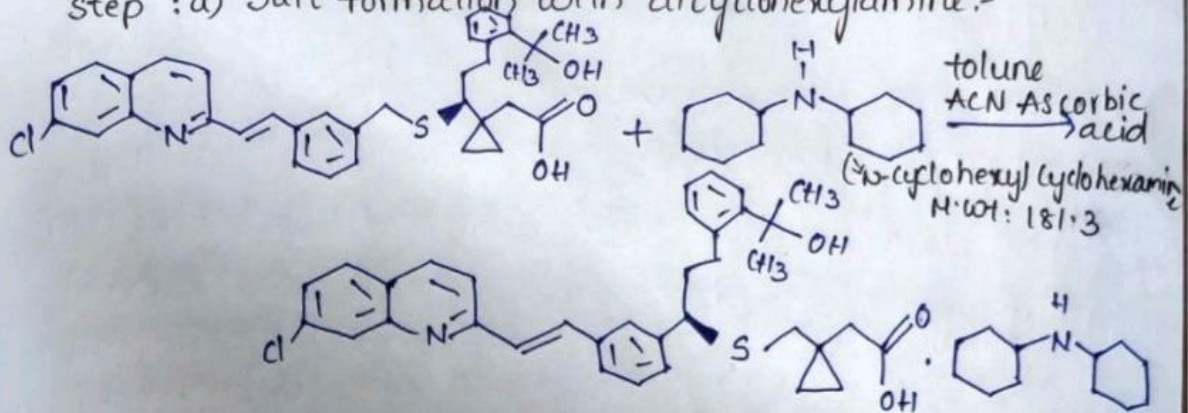


step : (b) Condensation Reaction:-



Stage : II

step : a) Salt formation with dicyclohexylamine:-

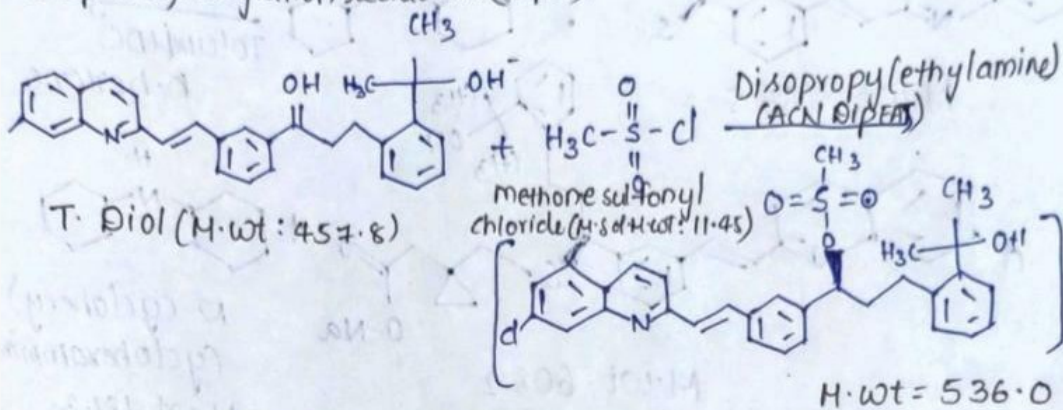


Montelukast Stage II  
 (DCHA salt form)  
 M.wt: 766.5

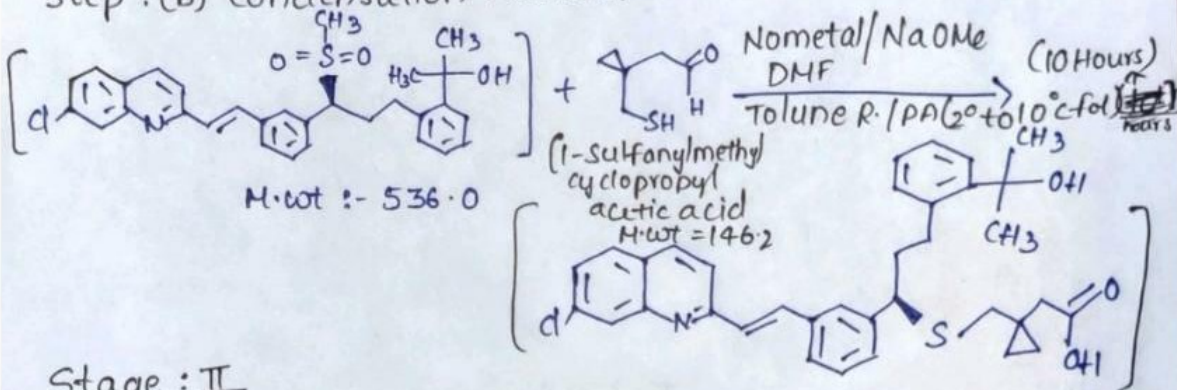
# MONTELUKAST SODIUM

Stage : I

step : a) Mesylation reduction (step:1)

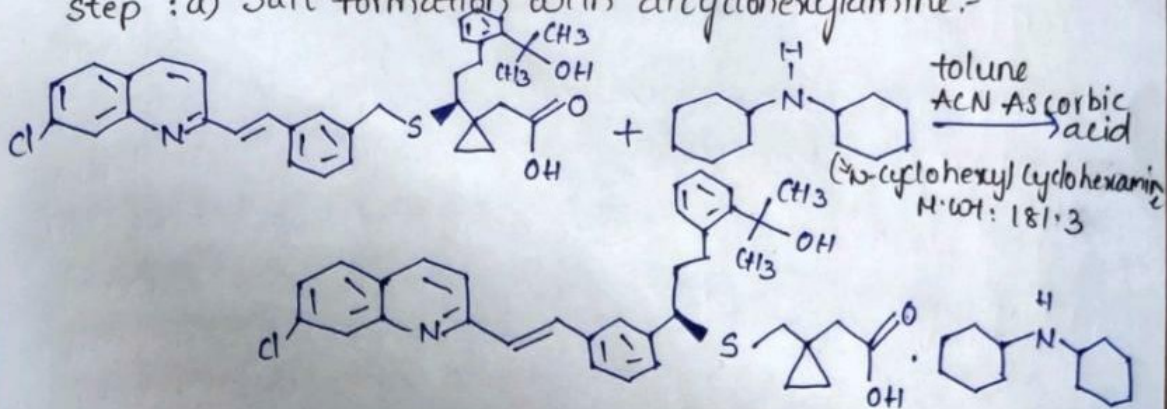


step : (b) Condensation Reaction:-



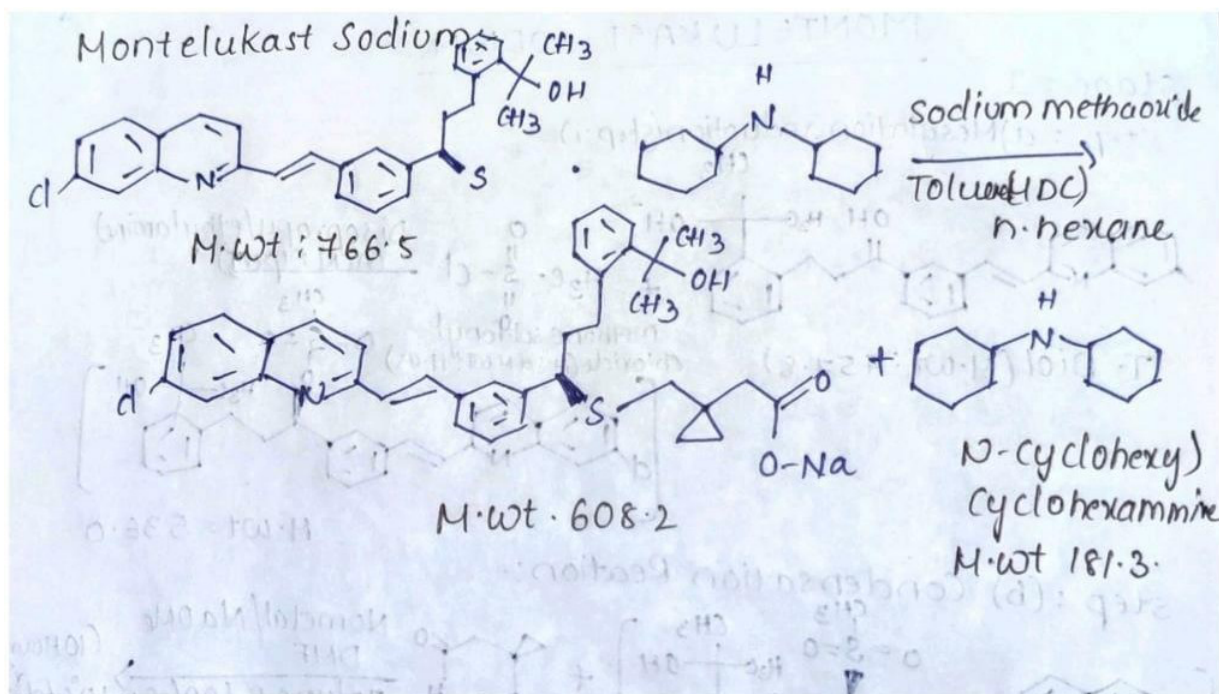
Stage : II

step : a) Salt formation with dicyclohexylamine:-



Montelukast stage II  
 (DCHA salt) pure  
 M.wt: 766.5





## Learning Outcomes:

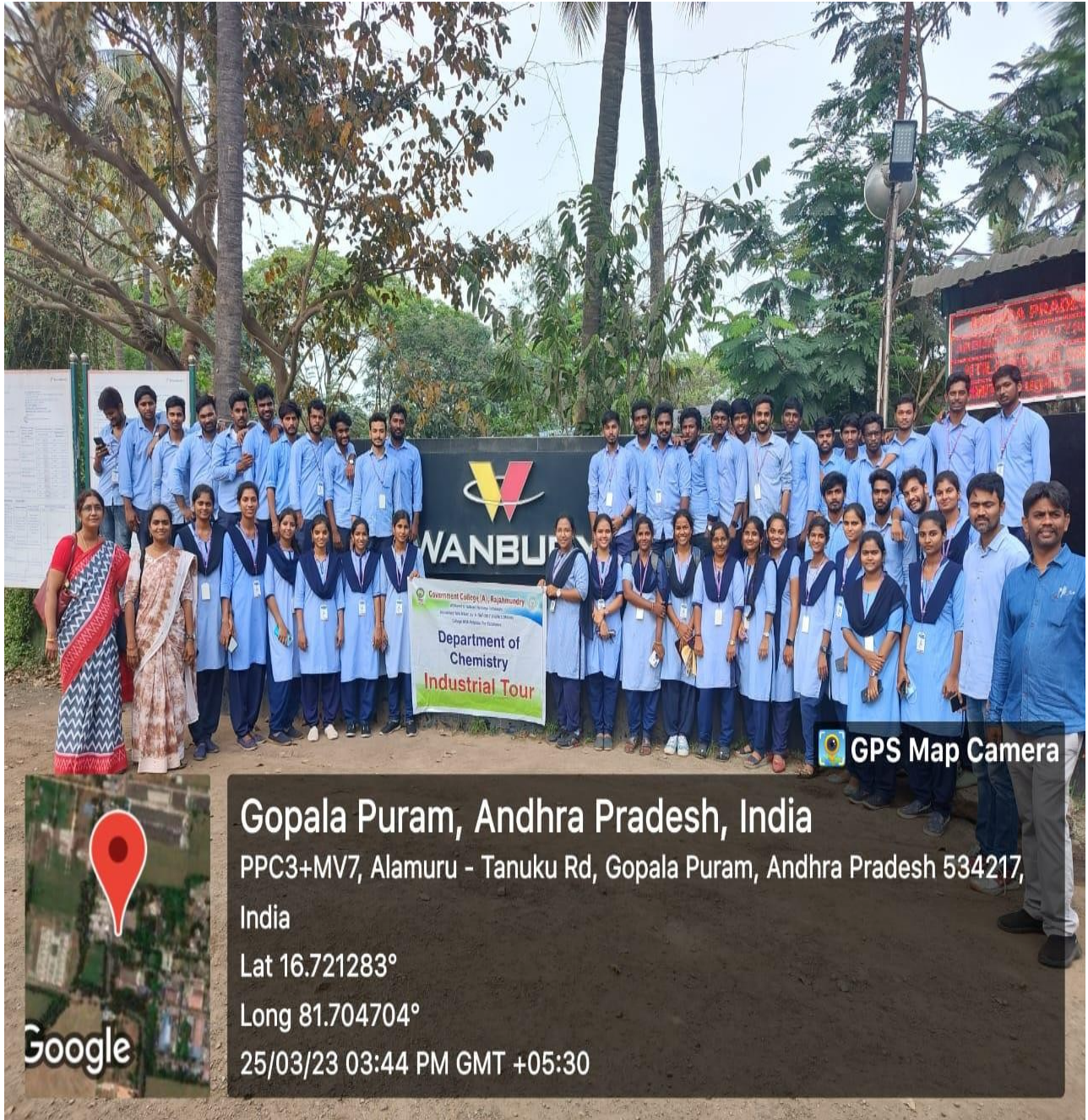
- ¥ To understand and explore different areas of productivity Techniques and their applications in operations with the help of real life cases studies
- ¥ Through the Industrial Visit and regular practice given to evolve solutions for case studies the classroom knowledge will be put to application and at the same time their understanding will be put to evaluation
- ¥ The Students will acquire a new way of looking at the manufacturing/service sector in the entire supply obtain journey

**GOVERNMENT COLLEGE(A) RAJAHMUNDRY**  
**DEPARTMENT OF CHEMISTRY**  
**Students who attended in this Programme.**

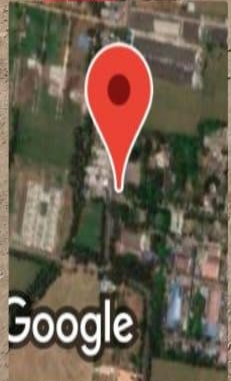
SL.NO	Signature of the student	SL.NO	Signature of the student
1	CH.Rakshitha	21	Sravani. CH
2	A.Jaswanthi	22	Sandhya.D
3	T. Bhavani	23	V. Surya Kiran
4	A.Lova Gani Durga	24	Y. Shayum Babu
5	K.Venkata Lakshmi	25	B Raj Kumar
6	J. Ambica	26	P. Madhava
7	R. Paralakshmi	27	G. Sai durga prasad
8	T.Aswini	28	Ch. Bhuvan
9	B.Aswini	29	M Eswar Kumar
10	B.Sai Lakshmi	30	B.Rambabu
11	N. Lavanya	31	Duegavasv V
12	S.Parmila	32	Somandh P
13	R. Vijaya Rani	33	Mallesh
14	G. Surpiya Mani	34	S. Praveen
15	P.Meghana	35	Y. Raju
16	S B Leela vathi	36	Ramabhadrao
17	S R Satya Durga	37	P Someswararao
18	Kiranami	38	Akshay P
19	Srilekha	39	R Sunny
20	Sneha Sudha	40	Tarun Sai

<b>SL.NO</b>	<b>Signature of the student</b>	<b>SL.NO</b>	<b>Signature of the student</b>
41	Abhilash	61	
42	Satish kumar B	62	
43	P Kalyan	63	
44	Bhaskar	64	
45	R. Arjun	65	
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GPS Map Camera



Gopala Puram, Andhra Pradesh, India

PPC3+MV7, Alamuru - Tanuku Rd, Gopala Puram, Andhra Pradesh 534217,  
India

Lat 16.721283°

Long 81.704704°

25/03/23 03:44 PM GMT +05:30

From

Dr. D.Suneetha  
Lecturer Incharge  
Dept. Of Chemistry  
Govt. College (A)  
Rajahmundry.

To

The Principal,  
Govt. College (A)  
Rajahmundry.

Lr. No.21 /CHE/2022-23/dated, 24-03-2023.

Sir,

**Sub:** Dept. Of Chemistry- permission to conduct an industry visit to Wanbury Pharmaceuticals, Tanuku to the M.Sc., Chemistry students on 25-03-2023 - request -reg.

I submit to your kind notice that the department of Chemistry proposed to conduct an Industry visit to M.Sc., Chemistry semester III students on 25-03-2023 to the **Wanbury Pharmaceuticals, Tanuku**, W.G.Dt., Nearly 50 students (25 boys and 25 girls) are willing to participate in this visit and four faculty members are accompanying. This visit will enhance the practical skills and help improve job opportunities. The list of students is attached herewith.

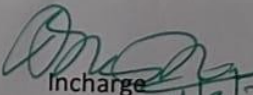
I also request you to treat the absence of the following four faculty members as "On duty".

1. Dr.B.Mallikarjuna
2. Sri.M.Sudhakara Rao
3. Smt.M.Padmaja
4. Smt. G.Tejaswini

Thanking you sir,

Yours sincerely,

Rajahmundry,  
24-03-2023.

  
Incharge  
24/3/23.  
Incharge  
Dept. of Chemistry.



22	V. Surya kiran	Organic chemistry	N. Subin
24	Y. shayum babu	Organic	Y. shayum babu
25	B. Rajkumar	Organic	B. Rajkumar
26	P. Madhava	Organic	P. Madhava
27	G. Sai. durga prasad	organic	G. Sai Durga Prasad
28	Ch. Bhuvan	Organic	Ch. Bhuvan
29	M. Eswar kumar	Organic	M. Eswar kumar
30	B. Ram babu	organic	B. Ram Babu
31	Durgavani. V	organic	V. Durga vani
32	Somanadhi. P	Analytical	Somanadhi. P
33	Mallesw	physical	Mallesw
34	S. praveen	organic	S. Praveen
35	Y. Raju	Organic	Y. Raju
36	Ramabhadra Rao	Organic	Ramabhadra Rao
37	<del>R. Someswar</del> P. Someswar Rao	Analys	P. Someswar Rao
38	Akshay. P	physical	Akshay. P
39	R. Sunny	Analys	R. Sunny
40	Tarun Sai (sr)	organic	Tarun Sai
41	Abhilash	Analytical	Abhilash
42	Satish kumar. B	physical	Satish kumar
43	P. Kalyan	Organic	P. Kalyan
44	Bhaskar	Physical	Bhaskar
45	R. Arjun	organic	R. Arjun

1) Ch. Rakshitha	II MSc (Organic chemistry)	Ch. Kakiletha
2) A. Jaswanthi	II MSc (Organic chemistry)	A. Jaswanthi
3) T. Bhavani	II MSc (Organic chemistry)	T. Bhavani
4) A. Lova Gani Durga	II MSc (Organic chemistry)	A.L.G. Durga
5) K. Venkata Lakshmi	II MSc (Organic chemistry)	K. Venkata Lakshmi
6) J. Ambbica	II MSc (Organic chemistry)	J. Ambbica
7) R. Paralakshmi	II <sup>nd</sup> MSc (Organic chemistry)	Paralakshmi R.
8) T. Aswini	II <sup>nd</sup> MSc (Organic chemistry)	T. Aswini
9) B. Aswini	II <sup>nd</sup> MSc (Organic chemistry)	B. Aswini
10) B. Srilakshmi	II <sup>nd</sup> MSc (Organic chemistry)	B.S.L. Srilakshmi
11) N. Lavanya	II <sup>nd</sup> MSc (Organic chemistry)	N. Lavanya
12) S. Parimala	II <sup>nd</sup> MSc (Organic chemistry)	Parimala S.
13) R. Vijayarani	II <sup>nd</sup> MSc (Physical chemistry)	Vijayarani R.
14) G. Supriya Mani	II <sup>nd</sup> MSc (Physical chemistry)	Supriya G.
15) P. Meghana	II <sup>nd</sup> M.Sc. (Physical Chemistry)	P. Megha
16) S. B. Leelavathi	II <sup>nd</sup> M.Sc. (Physical Chem)	S.B. Leelavathi
17) S.R. Satya Durga	II <sup>nd</sup> MSc (Organic Chem)	S.R. Satya Durga
18) Kiranmai	II <sup>nd</sup> MSc (Organic Chem)	L. Kiranmai
19) Seilekha	II <sup>nd</sup> MSc (Organic Chem)	Ch. Seilekha
20) Snehasudha	II <sup>nd</sup> MSc (Organic)	S. Snehasudha
21) Sravani. Ch	II <sup>nd</sup> MSc (Analytical Organic)	Ch. D. Sravani
22) Sandhya. D	II <sup>nd</sup> MSc Organic	Sandhya D.
23) P. ...	II <sup>nd</sup> MSc Analytical	P. ...



