J.S.M. COLLEGE, ALIBAG.

DEPARTMENT OF CHEMISTRY

ACDEMIC YEAR 2022-23

ACTIVITY REPORT

Sr.No.	Name of	INDUSTRIAL VISIT	
	Activity		
1	Name of	DEPARTMENT OF CHEMISTRY.	
	organizing		
	Department		
2	Organized in	Rashtriya chemicals and fertilizers	
	collaboration	Ltd. Thal, Alibag. RCF Ltd, Thal -	
	with	Alibag.	
3	Name of	1.Mr. Vinayak Patil Chief manager	
	Resource	(HR/HRD) Nodal Officer Rashtriya	
	Persons	chemicals and fertilizers Ltd. Thal,	
	Presents	Alibag.	
		2.Mr. Vinay Govilkar	
4	Date	27-01-2023	
5	Time	8.30 am to 4.30 pm	
6	Number of	Teaching Staff: 01 Nonteaching:02	
	beneficiaries	Students: F/27 M/16	
		Total:46	
7	Aim(s)	i)To introduce exposure to industry.	
		ii) The students will be able to better	
		visualize, comprehend and apply	
		what they have learnt in the	
		classroom during classroom theory	
		teaching.	
		iii)To familiar the students with the	
		industrial operations.	

		iv) To get the actual industrial run work at the industry.v) To know the what RCF industry benefits to our nation.
8	Outcome(s)	 i) The industrial visits enriched students' knowledge about various chemicals produced by RCF industry. ii) Role of fertilizers in our food productions iii) Exposure to industry experts. iv) Enhancing the learning experiences. v) Provides opportunity to learn practically through interaction working methods and employment practices.

Date:21-01-2023

J.S.M. COLLEGE, ALIBAG.

DEPARTMENT OF CHEMISTRY

ACDEMIC YEAR 2022-23

NOTICE

All the students of T.Y.B.Sc. chemistry subject, who enrolled their names in the industrial visit at RCF Thal, are informed that the RCF authority tell us the date & time for visit as on <u>27th Jan. 2023 Friday</u>, from 9 am to 5pm.

The permission is on conditional basis, to bring college ID & Aadhar card, obeys the rules and regulations given by the RCF staff. The students must submit the visit reports and feedback form. Photography, videos recording is not allowed in the plant area.

Time to report at administrative office gate main road (Alibag-Mandava) at 8.30 am.

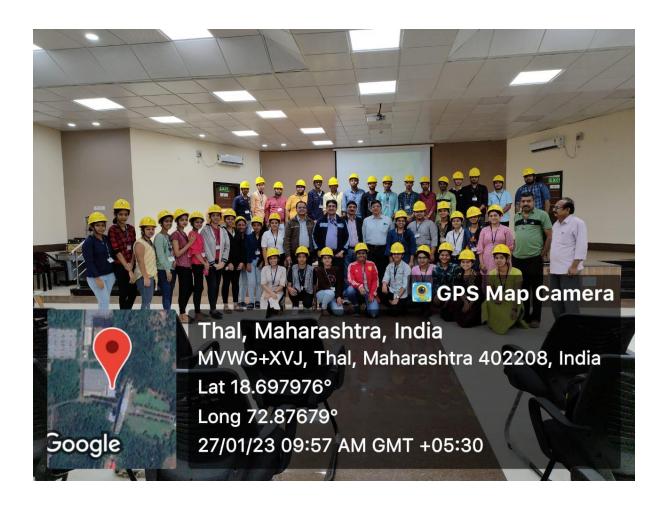
HOD Chemistry

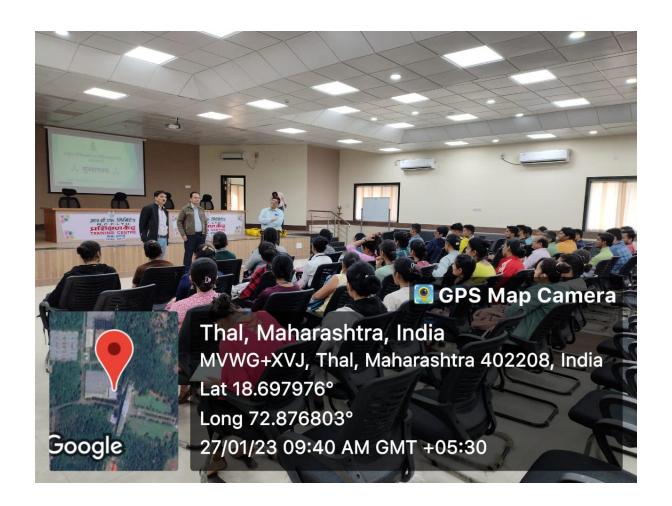
PRINCIPAL





27-01-23 RCF mobile NU. Nume Mrunmayee Jeevan patil. 818008774 Afirali vijay Upadhye 970350560100 Devyani Deepak polikal 8600875873 Sakshi Rajesh Kemkar 7887776216 Divya Pravin Patil 8551802684 Manasi Sanyay More 7058771022 Divya Bipin Peke 73859699 78 Aditi Shashikant Sankar 915849 1798 Bhakti Nandkumar Naik 1763020684 9805664955 · Vaishnavi Vidyoudhar Patil 9579453508 Ketki kiran Patil 9359413830 Wedanka Sandip Mokal 15 Tanvi Dinesh Patil 7841834342 Tejas Vilas Panar 7249117159 Shubham Sandcepmhabe 9146565727 9359227177 Swaraj milind Shinde Narun Vilas mhabe 901109 6130 94233 75208 Omkar sudhir Mhatre Jul uday Nasavkan 8317231772 Ehrovani Grajananpatil 7843056669 Anuja Arvind Mhatre 9273797166 9403850026 Dipeeka Vinod Naik 9623108926 Sampada Mangesh Naik 7620039923 Apeksha Anil patil komal Pravin vartak 7083659847 Bruthvi Nilesh Naik 9325465629 7058536423 unishita mangesh Bhagat ykrutali Kiron Gunjal 8446124256 shrewash Rajerdna Pachadkar 9763906138 Atik Kiran Palil 9356449917 Rulik Acishot Anakashi 257030603501 9511297443 krutik vijay Mhatre Ankut Rameshwar Pawashe 77984003191 Shubham Mahendra Undire 7066212252 Banmukh Knishna Ras 7499263224 Riddhi Rajesh Jagky 9049297454 3) Priyanka Bhagwan Dabhade 8999671475 scial kailaschoulkar 8600601148 Shriyash Ramakant Nayawn Kur 8552074581 Tanmay Vijay Patil 9579693866 Rugved Dattaram Bhagat 9503063966 B308598826 morning Sunil Shahabajkar Bivishakha R. Khawale 9145778171







J.S.M. COLLEGE, ALIBAG.

DEPARTMENT OF CHEMISTRY

ACDEMIC YEAR 2022-23

NOTICE

All the students of T.Y.B.Sc. chemistry department are informed that industrial visits /excursions of chemistry students arranged in this semester.

On basis of students demands, we arranged two visits one out of state at Hyderabad and second at RCF Thal plant.

Please enroll your name, age, aadhar card & mobile number to the HOD of chemistry as early as possible.

Baller

DATE: 23-11-2022

HOD
Chemistry Department

J.S.M. COLLEGE, ALIBAG.

DEPARTMENT OF CHEMISTRY

ACDEMIC YEAR 2022-23

To.

The principal,

J.S.M. College, Alibag.

Sub: Permission for industrial visits.

Respected Sir,

We are arranging an industrial visit for T.Y.B.Sc. chemistry students to R.C.F. industry at Thal-Alibag as a part of our curriculum.

47 students have shown their interest in visiting RCF industry at Thal-Alibag.

Kindly give us permission to arrange an industrial visit to enrich knowledge of T.Y.B.Sc. students and oblige.

Thanking you.

Yours faithfully,

DATE: 12-12-2022

HOD

Chemistry Department.

Prof. A.V. Jadhav, HOD, Dept. of Chemistry Date-:12/12/22

To,
The principal,
J.S.M. College, Alibag.

Sub: Permission for industrial visits.
Respected Sir,

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Thanking you.

Yours faithfully,

J. S. M. College Alibag Dist - Ralgad

give the to permission.

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Janata Shikshan Mandal's

Smt. Indirabai G. Kulkarni Arts College, J. B. Sawant Science College and Sau. Janakibai Dhondo Kunte Commerce College and J. S. M. College of Arts, Science & Commerce (Junior College) Late Nanasaheb Kunte Educational Complex

Late Nanasaheb Kunte Educational Complex Alibag, Dist. Raigad. Pin : 402 201. (Maharashtra)

Principal: Dr. Anil K. Patil (M.Sc., Ph.D.)

Tel. Fax: 02141-222036 Tel. Principal: 02141-228361 E-mail: principal_jsm@rediffmail.com

jsmcalibag@gmail.com web site : www.jsmalibag.edu.in Index No. : J/17.07.008

President : Adv. Gautam P. Patil

Permanently Affiliated to University of Mumbai. Included under section2 (f), 12(B) of the U.G.C. Reaccredited by NAAC with 'B' Grade(CGPA:2.08)

Mumbai University Best College Award 2018 - 2019.

Ref. No.

Date:

17/12/2022

To.

Mr. Vinayak Patil, Chief manager (HR/HRD) Nodal Officer Rashtriya chemicals and fertilizers Ltd. Thal, Alibag.

Sub: Permission for industrial visits to the Thal plant.

Respected Sir,

We are arranging an industrial visit for T.Y.B.Sc. chemistry students to RCF industry Thal plant as a part of our curriculum.

About 50 students and two teachers have shown their interest in visiting RCF industry at Thal.

Kindly give us permission to arrange an industrial visit to enrich knowledge of T.Y.B.Sc. students and oblige.

Thanking you.

Princi

studies.

Industrial Visit to R.C.F. Thal

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	GS- 49	MORE MANASI SANJAY	6775 2830 9134	88060 58311
	GS- 234	PATIL SHRAVANI GAJANAN	7993 4126 8296	7843056669
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7	GS- 41	NAIK SAMPADA MANGESH	8894 6585 2995	9623108926
2		SHUBHAM MHATRE		9146565727
9	GS- 82	ANKUR PAVASHE	3013 6717 0444	1198400391
0	GS- 22	DEVYANI DEEPAK POIKAR	351936170743	8806391550
12	GS-227		3377 2096 7864	7385 9699 78
17	GS- 219	SHINDE SWARAJ MILIND	3692 6672 9801	9359227177
12	GS- 54	JUI NAGAVKAR	9828 2744 8390	8317231772
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15	GS- 201	GUNJAL KRUTALI KIRAN	5095 67120423	9325465629
16	GS- 202	NAIK PRUTVI NILESH	2311/8/02243	8805541033
17	GS- 43	MHATRE OMKAR SUDHIR		7066212252
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	GS-6	ATIK PATIL	4879 1951 2362	8180087741
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	48 GS- 24	Mr.Kadam B.D.		96573 02295
	49	Mr. D.P.Nagar	2475 2243 8133	99224 79338
	51	Prof.A.V.Jadhav -	7095 9577 0381	7721813636
	52	Prof.P.A.Chate		83297 90503
12	53	Prof. N.V.Patil		8767155283
TIL.	44			



Janata Shikshan Mandal's

Smt. Indirabai G. Kulkarni Arts College, J. B. Sawant Science College and Sau. Janakibai Dhondo Kunte Commerce College and J. S. M. College of Arts, Science & Commerce (Junior College) Late Nanasaheb Kunte Educational Complex Alibag, Dist. Raigad. Pin: 402 201. (Maharashtra)

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Mumbai University Best College Award 2018 - 2019.

Ref. No.

Date:

Date: 17-12-2022

To, Mr. Shriniwas M. Kulkarni, Chief General Manager (HR-A) Rashtriya chemicals and fertilizers Ltd. Thal, Alibag.

Sub: Permission for industrial visits to the Thal plant.

Respected Sir,

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Kindly give us permission to arrange an industrial visit to enrich knowledge of T.Y.B.Sc. students and oblige.

Thanking you.

Principa

Date:20/01/2023

OFFICE ORDER

To,

Prof. A.V. Jadhav.

HOD Chemistry

Department of Chemistry of our college has arranged visit to RCF Thal on 27th Jan. 2023. Prof. A.V. Jadhav has been appointed as tour in- charge. You are supposed to guide the students for study tour.

PRINCIPAL

TOUR REPORT

The RCF-Thal visit organized by chemistry department of J.S.M. college, Alibag. And from RCF -Thal Mr. Vinayak Patil Chief manager (HR/HRD) Nodal Officer Rashtriya chemicals and fertilizers Ltd. Thal, Alibag and Mr. Vinay Govilkar officer (HR/HRD). Total 46 members of college visited on27th Jan.2023. Out of it, T.Y.B.Sc. chemistry, 43 students (27 male and 16 female), three staff members (1Teaching M & 2 nonteaching M). Departure time 8am in the morning & arrival at same day at evening. The cost of tour per member is zero rupee. Because all facility with breakfast, lunch and noon tea provided by the RCF factory.

The main objective of tour is observing the by knowing the RCF industry largest producer of Urea and other chemicals. So that students get benefit to earn job opportunity in industry. To observe the actual industrial production process of urea and ammonia. Then all the students visited to the control room, plant area, bagging section, storage dock finally the transportation by rail area.

After lunch, seminars by Mr. Vinayak Patil followed by Mr. Vinay Govilkar on the role of RCF in Indian growth explained with photo section. The documentary on RCF factory gives idea about the slogan Grow together. And role of RCF in Indian agriculture sector. The important aspect of our visit is that most of the students who visited first time in the plant. They got idea about the plant. Hence in their mind decided to study hard and join the job in the miniratna RCF industry of India.

After the valedictory function, we all served with tea and filled the feedback form. All the students who present for industrial visit given a participation certificates. At the end of day, we saw the happy and optimistic faces of our students.

HOD CHEMISTRY

Industrial Visit to R.C.F. Thal

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1	GS- 204	PAWAR TEJAS VILAS	401330720153	7249117159
2	GS- 49	MORE MANASI SANJAY	677528309134	8806058311
3	GS- 234	PATIL SHRAVANI GAJANAN	799341268296	7843056669
4	GS- 27	SANKAR ADITI SHASHIKANT	331095836348	9158491798
5	GS- 50	SAKSHI KEMKAR	745314309912	7887776216
6	GS- 241	DIVYA PATIL	252320528700	8551802684
7	GS- 41	NAIK SAMPADA MANGESH	889465852995	9623108926
8	GS- 226	SHUBHAM MHATRE	764500599370	9146565727
9	GS- 82	ANKUR PAVASHE	301367170444	7798400391
10	GS- 22	DEVYANI DEEPAK POIKAR	351912022784	8806391550
11	GS- 227	DIVYA PHEKE	337720967864	7385969978
12	GS- 219	SHINDE SWARAJ MILIND	369266729801	9359227177
13	GS- 54	JUI NAGAVKAR	982827448390	
14	GS- 35	MHATRE ANUJA ARVIND	381912022784	8317231772
15	GS- 201	GUNJAL KRUTALI KIRAN	509567120423	9273797166
16	GS- 202	NAIK PRUTVI NILESH	765916914377	8446124256
17	GS- 43	MHATRE OMKAR SUDHIR	231118102243	9325465629
18	GS- 216	SHUBHAM UNDIRE	284492605664	8805541033
19	GS- 40	SAI GAVAND	319719313533	7066212252
20	GS- 223	VISHAKHA	248138976928	8010860533
21	GS- 217	PATIL APEKSHA ANIL	824789732023	9145778171
22	GS-	TEJAS KARMAT	024703732023	7620039923
23	GS- 63	RUGVED BHAGAT	759958330560	0502062066
24	GS- 53	MRUNMAY SHAHABAJKAR	366144923496	9503063966
25	GS- 20	SANMUKH RAO	431415395919	8308598826
26	GS-	VEDAKA MOKAL	527933177054	7499263224
27	GS- 26	TANMAY PATIL	301681220320	9359413880
28	GS- 39	SHRIYASH NAGAONKAR	822437423210	9579693866
29	GS- 203	KRUTIK MHATRE	550795845644	8552074581
30	GS- 46	SHREYASH PACHADKAR	962240254464	9511297443
31	GS- 38	RUTIK ARKASHI	405283910236	9763906138
2	GS- 64	KAUSHAL PATIL	879512123568	7030603501
3	GS- 213	VARUN MHATRE	781616050282	7276853247
4	GS- 214	OMKAR KHOPKAR	979092103489	9011096130
5	GS- 62	ATIK PATIL	217873335404	9370069564
	GS- 16	MRUNMAI JEEVAN PATIL	487919572362	9356449917
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-	GS- 24	KOMAL P. VARTAK	896897805381	7083659847
1		Mr.Kadam B.D.	247522420422	9657302295
		Mr. D.P.Nagar	247522438133	9922479338
1		Prof.A.V.Jadhav	709595770381	7721813636
2		Prof.P.A.Chate	688448886187	8329790503

J.S.M. COLLEGE, ALIBAG. DEPARTMENT OF CHEMISTRY ACDEMIC YEAR 2022-23

Date:21-01-2023

NOTICE

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Time to report at administrative office gate main road (Alibag-Mandava) at 8.30 am.

religing varying lengths of days etc. 5.3 : Definition & Qualities of an Ideal Fertilizers ;

On the basis of above discussion, one may define the term fertilizer in different manner and may express the desired qualities of a good fertilizer as outlined below:

Definition: (1) "The material which supplies to the soil the necessary

requirements for healthy growth of plants is termed a fertilizer."

(2) "The compounds of certain elements (N, P, K) which can enrich the soil and make it more fertile and productive leading to fullfleshed growth of plants are called fertilizers."

(3) "The substances which can supply to the soil the requisite constituents to achieve healthy and optimum growth of plants by avoiding

their starvation are known as the fertilizers."

The word fertilizer is derived from fertility. Naturally the materials used as fertilizers should increase the fertility of the soil. A good fertilizer is one that possesses the following properties.

Qualities: 1. Solubility: Fertilizer must be freely soluble in water so

that it is assimilated easily by the plants for its immediate use.

2. Nutrients: The fertilizer should supply the essential nutrients to the

plants by increasing the fertility and productivity of soil.

3. Physical Nature: It should have a good physical form so that it can be powdered to suitable fineness, bagged, transported and stored easily. Its physical form should be such that it can be distributed uniformly in the soil and remains stable for longer time. It should not be gummy and compact.

4. Chemical Nature: It should have a suitable chemical form so that the elements are not washed away but they are readily made available to the

plants.

5. General Nature: There should not be anything injurious to plants.

6. Basicity: A good fertilizer is one that itself is basic and helps to decrease the acidity fo soil. At least it should not increase extra acidity because proper growth of plants requires slightly basic soil (pH = 7 to 8)

7. Soil Composition: The fertilizer should not spoil the texture of the

8. Chemical Reaction: It should not produce extra heat when applied to soil. It should help to keep the soil loose.

the soil. If water is scare, the plants will practically burn. 9. Action on Appliances: There should not be any corrosive action on

In brief, an ideal fertilizer is one which forms a true solution in water, instruments used for its application. its assimilation by plants is non-exothermic reaction, it is non-hygroscopic and stable at room temperature and on application does not spoil the texture of the soil.