



|| Tevo Sada Dnyanmaya Pradeep ||  
*Jijamata Shikshan Prasarak Mandal's*

## **JIJAMATA MAHAVIDYALAYA, SARAT**

*A/p:- Sarati, Tal. Indapur, Dist. Pune (Pin : 413103) Maharashtra, India  
(Affiliated to Savitribai Phule Pune University, Pune )*

Principal  
Dr. A.Y. Lipare  
9822878868

PUN CODE: CAAP020190  
College Code: 1504  
Estd.: 2013

President  
Mr. Appasaheb N. Jagadale  
Jijamata Shikshan Prasarak Mandal

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**San. No.N.G.C.2013(100/13)Mashi-4, Dt.15 July2013 Uni.Appvl. No. ID.NO PU/PN/SC/458/2013**

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# **Criterion - II**

## **Teaching-learning and Evaluation**

**2.3.1: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process**

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 Jijamata Shikshan Prasarak Mandal's  
**Jijamata Mahavidyalaya, Sarati**

**Criterion 2 - Teaching-learning and Evaluation.**

2.3 Teaching- Learning Process ➤ Student centric methods, such as experiential learning, participative Learning and problem solving methodologies are used for enhancing learning Experiences.

Sr. No.	Subject	Student Centric Method
1	Chemistry	Quiz Competitions, Assignments, seminars, poster presentation, Test, EVS projects Power point presentation, Student conduct activities such as tree plantation, Field visits and Study tours, Curricular CoCurricular activities such as Sports, cultural activities.
2	Physics	Field visits and Study tours ,PPT presentation by teacher,EVS projects Assignments, Guest lectures ,poster presentation, Test, power point presentation , Student conduct activities such as tree plantation, Curricular Co - Curricular activities such as Sports, cultural activities.
3	Electronics	Curricular Co - Curricular activities such as Sports, cultural activities , Power point presentation, Student conduct activities such as tree plantation, Field visits and Study tours Quiz Competitions, EVS projects Assignments, Guest lectures poster presentation, Test.
4	Botany	Field visits and Study tours Quiz Competitions, EVS projects Presentation by teachers as well as students, project presentations Assignments, Guest lectures group discussion , seminars, poster presentation, Test, Power point presentation, Student conduct activities such as tree plantation, Curricular Co - Curricular activities such as Sports, cultural activities .
5	Zoology	Field visits and Study tours, Quiz Competitions, Assignments, poster presentation, Test, EVS projects Power point presentation.
6	Mathamatics	Quiz Competitions, EVS projects Presentation by teachers as well as students, project presentations Assignments, Guest lectures group discussion , seminars, poster presentation, Test, Power point presentation.
7	Geography	Field visits presentation, z Competitions, Assignments, poster er point presentation



8	Commerce	Field visits and Study tours Quiz Competitions, EVS projects Assignments, Guest lectures poster presentation, Test, Power point presentation, Student conduct activities such as tree plantation, Curricular Co - Curricular activities such as Sports, cultural activities .
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### **Student centric method •**

Experiential learning: ➤ Study tours and Field visit: Microbiology Student are actively participated in regular field Practical Classes. Educational Field Visit & Study tour provide students with a great opportunity to learn about Students with practical knowledge attained in the real world. Field trips to important place encourage students to develop knowledge and engaged to learn from these experiences. chemistry, botany, Zoology, Geography, Commerce, departments arrange field visit & study tour as a part of curriculum.



## Jijamata Mahavidyalaya, Sarati

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### ICT tools used in All Departments :-

Department	E-resources & techniques used	ICT tools & resources available
Chemistry	Computer, Internet Wi-Fi connectivity, Power Point Presentation, Google Meet App, Online Video Lectures,	Computer, Internet Wi-Fi connectivity, Printer , Use of Power Point Presentation.
Commence	Computer, Internet Wi-Fi connectivity, Power Point Presentation, Google Meet App, Online Video Lectures,	Computer, Internet Wi-Fi connectivity, Printer , Use of Power Point Presentation.



**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
**T.Y.B.Sc 2022-23**

**NOTICE**

All the student of B.COM faculty are hereby informed that there is a visit arranged on 04/02/2019 Monday at 'Agricultural Produce Market Committee 'Indapur, Tal-Indapur, Dist-Pune at 9.30 am .The visit is compulsory since the visit report submission needed for practical final examination for the practical course B.COM (Pattern 2013).

All the student have to be present at the college campus at 9.00 am sharply with notebook, water bottle and tiffin.



Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103



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To  
The Director,  
APMC, Indapur  
Tal-Indapur, Dist.-Pune.

Subject: Requesting to permit the visit of B.COM Account student of 'Jijamata Mahavidyalaya, Sarati to APMC, and Indapur on 04/02/2019 Monday.

Respected Sir/Madam,

With the reference to the above subject, B.COM Account student of Jijamata Mahavidyalaya, Sarati has visit to 'Agricultural Produce Market Committee' Indapur as per practical course syllabus.

We are expecting to know the day to day practical work and activities information carried in the factory. We will be very grateful to you if you are ready to cooperate and guide us by giving your valuable time and permission to visit the APMC, Indapur.

Total no of student will be around 47 along with faculty 4.

Thanking you.

  
Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103

# Industrial visit to 'The Agricultural Produce Market Committee' Indapur.

## Visit Report

Day & date of Visit : - 04/02/2019

Place of Visit : - 'Agricultural Produce Market Committee' Indapur.

B.COM Account student 47 visit along with 4 staff member of Jijamata Mahavidyalaya Sarati organized an industrial visit to 'The Agricultural Produce Market Committee' Indapur. We all went to market comity in college bus. Bus left the campus by 8.30 am and reached venue at 9.30 am. After the security check student were taken to introduction room and given briefing of rules and guidelines to be followed by everyone inside the industry.

We were got information about pomegranate import, export, packaging and transport related account knowledge. Mr.Suryawanshi.B.N has given more information about % of profit in pomegranate in the year.

Finally we were asked some question import, export, packaging transport, profit & loss. Mr.Suryawanshi.B.N answered each and every question. The APMC visit to indapur market comity enriched our knowledge and experience and also provide opportunity to learn practically through demonstration, exchange of information which helps student in their future carrier growth.



Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103





## Export Section





**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
 Agricultural Produce Market Committee' Indapur  
 B.COM 2018-19

**Attendance Sheet**

Sr.No	Roll No	Name Of Student	In	Out
1	18601	PHULE DIPLAI NIVRUTTI	P	P
2	18602	DESHMUKH PRAJKTA RAJENDRA	P	P
3	18603	GAIKWAD SAGAR ASHOK	P	P
4	18604	PATALE KAKASAHEB TUKARAM	P	P
5	18605	KHULE RUSHIKERSH UMESH	P	P
6	18606	GHOHARE TANUJA NARAYAN	P	P
7	18607	MULANI KHUSHBU RAMJAN	P	P
8	18608	JADHAV TEJASWINI BALKRUSHNA	P	P
9	18609	DEVKAR VARSHA SHANKAR	P	P
10	18610	KALE RUIPLAI BHAGAVAT	P	P
11	18611	BAVKAR NIKITA SANTOSH	P	P
12	18612	DESHPANDE GAYATRI DNYANESHWAR	P	P
13	18613	KANURE SHRISHAILYA PARMESHWAR	P	P
14	18614	GAIKWAD KIRTI DATTATRAY	P	P
15	18615	INGALE KANHAIYA RAJU	P	P
16	18616	KOLEKAR MAYURI BALASAHEB	P	P
17	18617	MAHADIK APARNA BALASO	P	P
18	18618	AVCHAR AMRUTA DHONDIRAM	P	P
19	18619	WAGHMODE PRAJAKTA MADHAV	P	P
20	18620	ABHANG KOMAL NAVNATH	P	P
21	18621	GAIKWAD SAWPNALI BABASAHEB	A	A
22	18622	DEVKAR SAVITA SANJAY	P	P
23	18623	HEGADE POOJA UTTAM	P	P
24	18624	PATIL PRASHANT SATISH	P	P
25	18625	RUTUJA RAVINDRA JAGADALE	P	P
26	18626	PHADATARE ARTI RAJENDRA	A	A
27	18627	TATHE DESHMUH ABHIJIT T	P	P
28	18628	BHAGAT SHWETA SATISH	P	P
29	18629	HONMANE BHARATI SATISH	P	P
30	18630	JADHAV SHITAL VIJAY	P	P



31	19631	BODAKE PRITI PANDURANG	P	P
32	19632	KUCHEKAR AKASH EKNATH	P	P
33	1963	DOLTODE POOJA SHANKAR	P	P
34	19634	KOKATE PARMESHWAR VISHNU	P	P
35	19635	MAGAR VISHAVJIT VAIJANATH	P	P
36	19636	TAKMOGE PRAVINSINGH ANNAPA	P	P
37	19637	SAWANT ADITYA POPAT	P	P
38	19638	BHAGAT PAYAL NANDKUMAR	P	P
39	19639	THAVARE KISHOR DHONDIBA	P	P
40	19640	MARKAD DHANASHRI SUBHASH	P	P
41	19641	KORE VISHVANATH SIDDHESHWAR	P	P
42	19642	KAWADE VAIBHAV MAHAVEER	P	P
43	19643	CHANDANKAR YOGESH VINAYAK	A	A
44	19644	YADAV PRAJAKTA RAMCHANDRA	P	P
45	19645	SHINDE GITANJALI BALASO	P	P
46	19646	SALUNKHE NITIN SHIVAJI	P	P
47	19647	JAGTAP RUSHIKESH SADASHIV	P	P

  
**IQAC Co-ordinator**  
**Jijamata Mahavidyalaya Sarati**  
**Tal.Indapur, Dist.Pune - 413103**



  
**Principal**  
**Jijamata Mahavidyalaya Sarati**  
**Tal.Indapur, Dist.Pune - 413103**

## NOTICE

All the T.Y.B.Sc Chemistry student are hereby informed that there is a visit arranged on 04/02/2019 Monday at '**The Saswad Mali Sugar Factory, Ltd, Malinagar, Tal-Malshiras Dist-Solapur** at 9.30 am .The visit is compulsory since the visit report submission needed for practical final examination for the practical course B.Sc. (Pattern 2013).

All the student have to be present at the college campus at 9.00 am sharply with notebook, water bottle and tiffin.



Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103



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**San. No.**N.G.C.2013(100/13)Mashi-4, Dt.15 July2013

**Uni. Appvl. No.** ID.NO PU/PN/SC/458/2013

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**To**  
**The Director,**  
**The Saswad Mali Sugar Factory, Malinagar.**  
**Tal-Akluj, Dist.-Solapur.**

Subject: Requesting to permit the visit of T.Y.B.Sc Chemistry student of 'Jijamata Mahavidyalaya, Sarati to APMC, and Indapur on 04/02/2019 Monday.

Respected Sir/Madam,

With the reference to the above subject, T.Y.B.Sc Chemistry student of Jijamata Mahavidyalaya, Sarati has visit to '**The Saswad Mali Sugar Factory, Malinagar**, as per practical course syllabus.

We are expecting to know the day to day practical work and activities information carried in the factory. We will be very grateful to you if you are ready to cooperate and guide us by giving your valuable time and permission to visit the Saswad sugar factory, Malinagar.

Total no of student will be around 36 along with faculty 4.  
Thanking you.

  
Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103



# **Industrial visit to The Saswad Mali Sugar Factory, Ltd, Malinagar.**

## **Visit Report**

Day & date of Visit : - 04/02/2019

Place of Visit : - **The Saswad Mali Sugar Factory, Ltd, Malinagar.**

T.Y.B.Sc 36 Chemistry student visit along with 4 staff member of Jijamata Mahavidyalaya Sarati organized an industrial visit to **The Saswad Mali Sugar Factory, Ltd, and Malinagar**. We all went to industry in college bus .Bus left the campus by 8.30 am and reached venue at 9.30 am. After the security check student were taken to introduction room and given briefing of rules and guidelines to be followed by everyone inside the industry.

We were divide into two batches escorted to assembly lines by the production manager Mr. Lokhande S.S (Plant In charge) and briefly explained how molasses to be done, water recycling process, sugar, alcohol & also molasses production.

Finally we were asked some question sugar, alcohol & also molasses production. Mr. Lokhande S.S (Plant In charge) answered each and every question. The industrial visit to sugar industry enriched our knowledge and experience and also provide opportunity to learn practically through demonstration, exchange of information which helps student in their future carrier growth.



Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103



**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**

**The Saswad Mali Sugar Factory, Malinagar**

T.Y.B.Sc 2018-19

**Attendance Sheet**

SR.NO	Roll No	Student Name	In	Out
1	18301	SAWANT ROHINI ANKUSH	P	P
2	18302	DEOKAR KOMAL NANASO	P	P
3	18303	CHORMALE RESHMA BALU	P	P
4	18304	DEVKATE SANGEETA PANDURANG	p	p
5	18305	GHOGARE AKANKSHA BALASO	p	p
6	18306	DHAINJE SHILA ABA	p	p
7	18307	KALE POONAM DINKAR	p	p
8	18308	PAWAR DATTATRAY NAGANATH	p	p
9	18309	MISAL SWAPNIL DATTATRAY	p	p
10	18310	SHETE MAYUR RAVINDRA	p	p
11	18311	PAWAR SURAJ TUKARAM	p	p
12	18312	PAWAR SANDESH MAHADEV	p	p
13	18313	WAGHMODE ROHIT SOPAN	p	p
14	18314	KECHE YOGESH GOVARDHAN	p	p
15	18315	THAVARE DADASO DHONDIBA	p	p
16	18316	JADHAV MADHUBALA SANJAY	p	p
17	18317	JAGTAP SOMNATH RAJENDRA	p	p
18	18318	BORATE AKSHAY ARJUN	p	p
19	18319	MANE MADHUREE SHANKAR	p	p
20	18320	BORATE GAURI LAXMAN	p	p
21	18321	GADE RITESH DHANYAKUMAR	p	p
22	18322	KECHE SONALI BALIRAM	p	p
23	18323	BHOSALE AMRUTA SUKHADEO	p	p
24	18323	BODAKE ARCHANA NAMDEV	p	p
25	18323	CHAVAN SWAPNALI MADHUKAR	p	p
26	18323	MANE DHANSHREE ASTIK	p	p
27	18323	UBALE PRIYANKA HANUMANT	A	A
28	18323	MAGAR SONALI MAHADEV	p	p
29	18329	PAWAR KISHOR CHANDRAKANT	p	p
30	18330	KALKUTE ABHAY DATTATRAY	p	p
31	18331	MASKE MUKTAI GAUTAM	p	p
32	18332	GAIKWAD AMRUTA SADASHIV	p	p
33	18333	ZAGADE YOGESH SUDHAKAR	p	p
34	18334	SALUNKHE MANISHA SUNII	p	p
35	18335	PAWAR SONALI HARIDAS	A	A
36	18336	JADHAV VANITA RAJENDRA	P	P



## NOTICE

All the student of T.Y.B.Sc (CHEMISTRY) are hereby informed that there is a visit arranged on 03/03/2020 Tuesday at 'Sohan Healthcare Pvt Ltd' Tal-Daund, Dist-Pune at 9.30 am .The visit is compulsory since the visit report submission needed for practical final examination for the practical course T.Y.B.Sc (Pattern 2013).

All the student have to be present at the college campus at 9.00 am sharply with apron, water bottle and tiffin.



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Tal.Indapur, Dist.Pune - 413103



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**San. No.**N.G.C.2013(100/13)Mashi-4, Dt.15 July2013

**Uni. Appvl. No.** ID.NO PU/PN/SC/458/2013

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**To**  
**The Director,**  
**The Sohan Healthcare PVT Ltd,**  
**Kurkubh Midc, Daund,**  
**Tal-Daund, Dist.-Pune**

Subject: Requesting to permit the visit of T.Y.B.Sc Chemistry student of 'Jijamata Mahavidyalaya, Sarati to Pandurang Sugar Factory, Shripur.

Respected Sir/Madam,

With the reference to the above subject, chemistry department of Jijamata Mahavidyalaya, Sarati has to T.Y.B.Sc chemistry student visit to 'Sohan Healthcare PVT Ltd' as per practical course syllabus.

We are expecting to know the day to day practical work and activities carried in the factory. We will be very grateful to you if you are ready to cooperate and guide us by giving your valuable time and permission to visit the factory.

Total no of student will be around 23 along with faculty 4.

Thanking you.

  
Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103

**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**

**T.Y.B.Sc 2019-20**  
**Attendance Sheet**

Sr.No	Roll No	Name Of Student	P/A
1	19101	Bhatekar Rutuja Sopan	P
2	19102	Chavan Rajshree Arun	P
3	19103	Bidave Sadhan Vithhal	P
4	19104	Ghogare Rupali Bharat	P
5	19105	Nimbalakar Punam Pandurang	P
6	19106	Shinde Trupti Dadasaheb	P
7	19107	Pawar Prearana Ravindra	P
8	19108	Hegade Sneha Vitthal	P
9	19109	Chavan Snehal Rajendra	P
10	19110	Waghmare Monika Uttam	P
11	19111	Gade Tejaswini Manoj	P
12	19112	Solankar Ashwini Dadaso	P
13	19113	Jagadale Priti Ramesh	P
14	19114	Kate Shweta Suresh	P
15	19115	Mane Trupti Ramchandra	P
16	19116	Pol Snehak Changdev	P
17	19117	Kokate Poonam Balasaheb	P
18	19118	Jadhav Rutuja Vijay	P
19	19119	Mandhare Prajakta Subhash	P
20	19120	Bodake Pranali Dattatray	P
21	19121	Shinde Anjali Trimbak	P
22	19122	Mane Ankita Dadaso	A
23	19123	Jagadale Pranjali Appasaheb	P
24	19124	Kokate Arti Sahebrao	P



# SOHAN HEALTHCARE PVT LTD







Name :- .....Pranshika Radasa.....  
Roll No :- .....16.....  
Seat No :- .....3398.....



Raw Materials,

- The raw materials which are used in the production of metformin hcl are DcDA and DcA
- The diethylenediamine is imported from imported
- It is 99.7% pure.
- It is in the crystalline white solid
- The melting point of DCA is 209 °c

Chemical Reaction

The structure of metformin Hcl is

- Metformin hydrochloride is hydrochloride resulting from the reaction of metformin with one molar equivalent of hydrogen chloride
- There are different chemical reactions during the product formation.

Metformin HCL is a hydrochloric resulting from reaction of metformin with one molar equivalent of hydrogen chloride

- The DcDA soluble at universal solvent
- When DcDA is placed in reactor and heated with steam it gives the metformin HCL in powder form after centrifugal separation.





## NOTICE

All the student of FY, SY & T.Y.B.Sc (CHEMISTRY) are hereby informed that there is a visit arranged on 13/05/2023 Saturday at Pandurang sugar factory Shripur, Tal- Malshiras, Dist-Solapur at 8.30 am .The visit is compulsory since the visit report submission needed for practical final examination for the practical course F.Y, S.Y & T.Y.B.Sc (CBCS Pattern 2019).

All the student have to be present at the college campus at 8.00 am sharply with apron, water bottle and tiffin.



  
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San. No.N.G.C.2013 (100/13) Mashi-4, Dt.15 July2013

Uni. Appvl. No. ID.NO PU/PN/SC/458/2013

To  
The Director,  
The Pandurang Sugar Factory,  
Shripur, Tal-Malshiras, Dist-Solapur.

Subject: Requesting to permit the visit of F.Y, S.Y & T.Y.B.Sc Chemistry student of 'Jijamata Mahavidyalaya, Sarati to Pandurang Sugar Factory, Shripur.

Respected Sir/Madam,

With the reference to the above subject, chemistry department of Jijamata Mahavidyalaya, Sarati has to arrange F.Y, S.Y & T.Y.B.Sc chemistry student visit to Pandurang sugar factory as per practical course syllabus.

We are expecting to know the day to day practical work and activities carried in the factory. We will be very grateful to you if you are ready to cooperate and guide us by giving your valuable time and permission to visit the factory.

Total no of student will be around along with faculty 8.

Thanking you.

  
Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103

**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
**F.Y.B.Sc 2022-23**

Sr.No	Roll No	Name Of Student	In	Out
1	22101	MISS.CHAVAN RESHMA ABHIMANYU	P	P
2	22102	MISS.CHAVAN RUTUJA BALKRUSHNA	P	P
3	22103	MISS.DEVKAR HARSHADA PANDHARINATH	P	P
4	22104	MISS.KAWADE AKANKSHA SHIVAJI	P	P
5	22105	MISS.KOKATE KAJAL SANJAY	P	P
6	22106	MISS.KOKATE SNEHAL DATTATRAY	P	P
7	22107	MISS.KULKARNI MRUNAL YASHWANT	P	P
8	22108	MISS.SALUNKE PRATIKSHA GANESH	P	P
9	22109	MISS.TELE AMRUTA SHIVAJI	P	P
10	22110	MR.GAIKWAD PRATIK RAVSAHEB	A	A
11	22111	MR.LOKHANDE SAMADHAN NAVNATH	P	P



**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
**S.Y.B.Sc 2022-23**

Sr.No	Roll No	Name Of Student	In	Out
1	22201	BODAKE PRACHI CHANDRAKANT	P	P
2	22202	CHANDANKAR APEKSHA VILAS	P	P
3	22203	CHAVAN DISHA JOTIRAM	P	P
4	22204	CHAVAN RUTUJA DATTATRAY	P	P
5	22205	GAIKWAD SNEHAL BALASO	P	P
6	22206	GHADAGE POONAM POPAT	P	P
7	22207	JADHAV SNEHA SAMPAT	P	P
8	22208	JADHAV VISHAL SAMPAT	P	P
9	22209	JAGDALE KOMAL AJINATH	P	P
10	22210	KECHE GAURI NETAJI	P	P
11	22211	KOKATE SHUBHANGI SHIVAJI	A	A
12	22212	KECHE RUTUJA CHANDRAKANT	P	P
13	22213	MANE PRANOTI SHANKAR	P	P
14	22214	NALAWADE ARPITA NANDKUMAR	P	P
15	22215	NIKAM PRADNYA ANIL	P	P
16	22216	PAWAR VISHAKHA RAJENDRA	P	P
17	22217	TAWARE ASHWINI SIDDHESHWAR	P	P
18	22218	TAWARE PALLAVI BALASO	P	P
19	22201	BODAKE PRACHI CHANDRAKANT	P	P
20	22202	CHANDANKAR APEKSHA VILAS	P	P
21	22203	CHAVAN DISHA JOTIRAM	P	P



**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
**T.Y.B.Sc 2022-23**

Sr.No	Roll No	Name Of Student	In	Out
1	22301	MISS.BHOSALE ASMITA SHARAD	P	P
2	22302	MISS.GHADAGE SAKSHI KIRAN	P	P
3	22303	MISS.GHOGARE POOJA SATISH	P	P
4	22304	MISS.GHOGARE PRAJAKTA SATISH	P	P
5	22305	MISS.GHOGARE SNEHAL SANTOSH	A	A
6	22306	MISS.GURGUDE KAJAL NAVNATH	P	P
7	22307	MISS. JADHAV ASHWINI MOHAN	P	P
8	22308	MISS.JAGDALE TANUJA NANASAHEB	P	P
9	22309	MR. JAGTAP JIVAN TUKARAM	P	P
10	22310	MR. KECHE PRAVIN NANDU	P	P
11	22311	MISS. MANE KAJAL ASHOK	P	P
12	22312	MISS. MANE NIKITA ARUN	P	P
13	22313	MISS. PHADATARE DNYANESHWARI LAXMAN	P	P
14	22314	MISS. RAJMANE VAISHNAVI PRASHANT	P	P
15	22315	MR. SATPUTE SACHIN RAJENDRA	P	P
16	22316	MISS. WAGHMARE KAJAL UTTAM	P	P
17	22317	MISS. WAGHMODE MAYA VITTHAL	P	P



## **Industrial visit to Pandurang Sugar Factory, Shripur**

### **Report**

Day & date of Visit : - 13/05/2023

Place of Visit : - Pandurang Sugar Factory, Shripur

F.Y, S.Y & T.Y.B.Sc Chemistry student visit along with 6 staff member of Jijamata Mahavidyalaya Sarati organized an industrial visit to Pandurang sugar factory, Shripur, Solapur.

We all went to industry in college bus .Bus left the campus by 8.30 am and reached venue at 9.30 am. After the security check student were taken to introduction room and given briefing of rules and guidelines to be followed by everyone inside the industry.

we were divide into two batches escorted to assembly lines by the production manager Mr.Jadhav Vinod and briefly explained how molasses to be done , water recycling process , sugar ,alcohol & also molasses production.

Finally we were asked some question water recycling process, sugar, alcohol & also molasses production. Mr.Jadhav Vinod answered each and every question.

The industrial visit to sugar industry enriched our knowledge and experience and also provide opportunity to learn practically through demonstration, exchange of information which helps student in their future carrier growth.



Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103

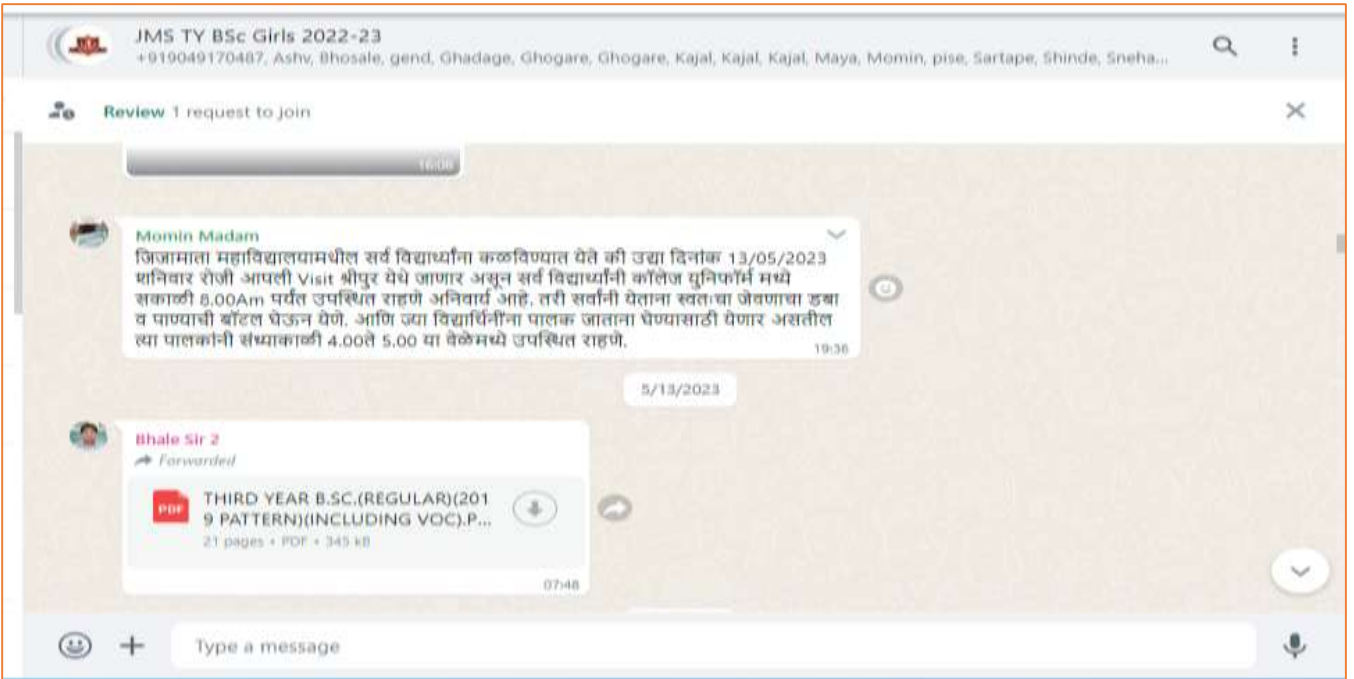




# NOTICE

All the student of F.Y,S.Y& T.Y.B.COM are hereby informed that there is a visit arranged on 13/05/2023 Saturday at The urban co-oprative bank pandharpur,Tal-Malshiras,Dist-Solapur at 8.30 am .The visit is compulsory since the visit report submission needed for practical final examination for the practical course F.Y,S.Y& T.Y.B.COM (CBCS Pattern 2019).

All the student have to be present at the college campus at 8.00 am sharply with notebook,water bottle and tiffin.



  
Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103



|| Tevo Sada Dnyanmaya Pradeep ||  
Jijamata Shikshan Prasarak Mandal's

## **Jijamata Mahavidyalaya, Sarati**

A/p:- Sarati, Tal. Indapur, Dist. Pune (Pin : 413103) Maharashtra, India  
(Affiliated to Savitribai Phule Pune University, Pune )

Principal  
Dr. A.Y. Lipare  
9822878868

PUN CODE: CAAP020190  
College Code: 1504  
Estd.: 2013

President  
Mr. Appasaheb N. Jagdale  
Jijamata Shikshan Prasarak Mandal

**San. No.**N.G.C.2013(100/13)Mashi-4, Dt.15 July2013

**Uni. Appvl. No.** ID.NO PU/PN/SC/458/2013

**To**  
The Bank Manager,  
The Pandharpur Urban Co-Operative Bank Pandharpur,  
Shripur, Tal-Malshiras, Dist-Solapur.

Subject: Requesting to permit the visit of.B.COM faculty student of  
'Jijamata Mahavidyalaya, Sarati to the Pandharpur Urban Co-  
Operative Bank Pandharpur, Shripur.

Respected Sir/Madam,

With the reference to the above subject, commerce department of Jijamata Mahavidyalaya, Sarati has to arrange F.Y, S.Y& T.Y.B.COM student visit 'The Pandharpur Urban Co-Operative Bank 'Pandharpur, Shripur as per practical course syllabus.

We are expecting to know the day to day practical work and activities carried in the bank. We will be very grateful to you if you are ready to cooperate and guide us by giving your valuable time and permission to visit the bank.

Total no of student will be 90 around along with faculty 8.  
Thanking you.

  
Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103



**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
**F.Y.B.COM 2022-23**

Sr.No	Roll No	Name Of Student	In	Out
1	22401	ABHANG NEHA BAPURAO	P	P
2	22402	ABHANG SAKSHI HANUMANT	P	P
3	22403	DEVKAR RUPALI DINESH	P	P
4	22404	DEVKATE RUTUJA RAMCHANDRA	P	P
5	22405	HANDE KOMAL HANUMANT	P	P
6	22406	INGALE NIKITA ADUMBAR	P	P
7	22407	JADHAV ARTI MUKINDA	P	P
8	22408	JADHAV UTKARSHA JAYSING	P	P
9	22409	KAWADE SAKASHI DADASO	P	P
10	22410	KAMBLE DIPALI MAULI	P	P
11	22411	KOLEKAR SWATI MAHADEV	P	P
12	22412	KHARAT SWETA SATISH	P	P
13	22413	KUMBHAR SOJWAL SACHIN	P	P
14	22414	KOKATE SHREYA VIJAY	P	P
15	22415	MORE AMRUTA TANAJI	P	P
16	22416	MEHTA DIVYANI PRASHANT	P	P
17	22417	MUNDFANE SHIVANI KUNDLIK	P	P
18	22418	PATHAN AYASHA MUSA	P	P
19	22419	PATIL VAISHNAVI SHIVAJI	A	A
20	22420	SAYYAD SADIYA KARIM	P	P
21	22421	SHAIKH AALISHA RAMJAN	P	P
22	22422	SHAIKH NAJIYA LIYAKAT	P	P
23	22423	SHETE PALLAVI SANJAY	P	P
24	22424	SHINDE SHITAL SATYAWAN	P	P
25	22425	WAGHMODE RASHIKA VISHNU	P	P
26	22426	WAGHMORE SHWETA HANUMANT	P	P
27	22427	CHANDANKAR ANIL SITARAM	P	P
28	22428	JAGTAP SANDIP SITARAM	A	A
29	22429	KADAM ROHAN ASHOK	P	P
30	22430	KOKATE SHIVPRASAD SAHEBRAV	P	P
31	22431	PATHAN AFTAB SHAKIL	P	P
32	22432	SHINDE LAXMAN TAYAPPA	P	P
33	22433	SHAIKH MUSADDIKALI HAJIABDU	P	P



**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
**S.Y. B.COM 2022-23**

Sr.No	Roll No	Name Of Student	In	Out
1	22501	ABHANG NIKITA BAPURAO	P	P
2	22502	ADLING DIVYA RAJESH	P	P
3	22503	AVACHAT PRIYANKA RAJENDRA	P	P
4	22504	BHONG DHANASHRI SANJAY	P	P
5	22505	BODAKE DNYANESHWARI SURESH	P	P
6	22506	DEOKAR PRANALI NAVANATH	P	P
7	22507	GAIKWAD AARTI PRADIP	P	P
8	22508	GAIKWAD PRERANA ANIL	P	P
9	22509	GAIKWAD SAKSHI PARSHURAM	P	P
10	22510	GAIKWAD SUPRIYA SHANTILAL	P	P
11	22511	GHADAGE DHANASHRI JAYSING	P	P
12	22512	GHADAGE DIVYA BALASO	P	P
13	22513	INGALE GAYATRI VIJAY	P	P
14	22514	KAMBLE SANJANA KISAN	P	P
15	22515	KANGUDE AARTI VIJAYSINH	A	A
16	22516	KOKATE SAKSHI DATTATRAY	P	P
17	22517	KOKATE TRUPTI LALASAHEB	P	P
18	22518	KUMBHAR HEMALATA SUGANDH	P	P
19	22519	MAGAR RAJVARDHINI SANJAY	P	P
20	22520	MALI KRANTI AJAY	P	P
21	22521	MOTE RADHIKA HARI	P	P
22	22522	NALAWADE SAKSHI VINOD	P	P
23	22523	PHADATARE ANJALI RAJENDRA	P	P
24	22524	RASTE PRIYANKA SANJAY	P	P
25	22525	RAUT NIKITA SHARAD	P	P
26	22526	SHAIKH FIRDOS RAFIK	P	P
27	22527	SURYAWANSHI GAURI VIJAY	P	P
28	22528	TAKTODE SAKSHI BALASO	P	P
29	22529	BHOSALE UDAYSINH SHANKARRAO	P	P
30	22530	INGAWALE-DESHMUKH JAYDEEP RAVINDRA	P	P
31	22531	KATE ANIKET SHIVAJI	P	P
32	22532	KADAM SANDIP YASHAVANT	P	P
33	22533	PHULE SIDDHARTH RAVINDRA	P	P
34	22534	THORAVE ASHISH SHAMRAO	P	P



**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
**T.Y. B.COM 2022-23**

Sr.No	Roll No	Name Of Student	In	Out
1	22601	MISS.ADAT GAYATRI RAMCHANDRA	P	P
2	22602	MISS.BHONG SUPRIYA SHIVAJI	P	P
3	22603	MISS.DHUMAL SUMITRA LAXMAN	P	P
4	22604	MISS.KALANGE RUTUJA RAJENDRA	P	P
5	22605	KAMBALE ANKITA PRAKASH	P	P
6	22606	MISS.KHADE MONALI GORAKH	A	A
7	22607	MISS.LALAGE SHURSHTI KHANDERAO	P	P
8	22608	MISS.LOKHANDE MAYURI RAJENDRA	P	P
9	22609	MISS.LONDHE AKANKSHA VIJAY	P	P
10	22610	MISS.MANE PRIYANKA VIJAY	P	P
11	22611	MISS.PATALE PUJA PANDURANG	P	P
12	22612	MISS.PAWAR PRANITA ANIL	P	P
13	22613	MISS.RAUT ASHWINI ANILKUMAR	P	P
14	22614	MISS.RAUT KOMAL SHARAD	P	P
15	22615	MISS.REDE NIKITA SUNIL	P	P
16	22616	MISS.SATPUTE SUPRIYA ASHOK	P	P
17	22617	MISS.SHINDE SWAPNALI NAGNATH	P	P
18	22618	MISS.SUTAR RUTUJA BHANUDAS	P	P
19	22619	MR.MANE SUJAY POPAT	P	P
20	22620	MR.JADHAV ADITYA BHIMARAO	P	P
21	22621	MR.JADHAV ATUL GANPAT	P	P
22	22622	MR.KOKATE SAGAR BALASAHEB	P	P



# **BANK VISIT REPORT**

Date of visit –13/05/2023

**The Pandharpur Urban Co-Operative Bank Pandharpur,  
Branch -Shripur,**

All B.com students and staff Prof .Pise M.B, Chavan P.J, And Anpat  
R.K visited to The Pandharpur Urban Co-Operative Bank Pandharpur,  
Branch -Shripur,

Bank visit to ‘Pandharpur Urban Co-Operative Bank Ltd. Shripur was successfully organized by department of Commerce on 13/05/2023. Urban Co-Operative Bank Ltd usually meet the need of specific types or groups of members pertaining to a certain trade ,profession, community or even locality.

Student will enhance their skill knowledge and types of bank account, basic Knowledge of check and new banking technology.

After that students were taken for the visit. The students visited different departments with .Mr. Deshpande S.

Finally we were asked some question on account section like financial concept and using then in our daily life Mr. Sandesh Deshpande answered each and every question. The Bank visit to ‘Pandharpur Urban Co-Operative Bank Ltd. Shripur our knowledge and experience and also provide opportunity to learn practically through demonstration, exchange of information which helps student in their future carrier growth.



**Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103**





# NOTICE

All the student of F.Y,S.Y& T.Y.B.COM are hereby informed that there is a visit arranged on 13/05/2023 Saturday at The Pune District Central Co-Operative Bank,Indapur, Tal-Indapur,Dist-Pune at 9.30 am .The visit is compulsory since the visit report submission needed for practical final examination for the practical course F.Y,S.Y& T.Y.B.COM (CBCS Pattern 2019).

All the student have to be present at the college campus at 9.00 am sharply with notebook, water bottle and tiffin.



  
Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103

**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
**F.Y.B.COM 2022-23**

Sr.No	Roll No	Name Of Student	In	Out
1	22401	ABHANG NEHA BAPURAO	P	P
2	22402	ABHANG SAKSHI HANUMANT	P	P
3	22403	DEVKAR RUPALI DINESH	P	P
4	22404	DEVKATE RUTUJA RAMCHANDRA	P	P
5	22405	HANDE KOMAL HANUMANT	P	P
6	22406	INGALE NIKITA ADUMBAR	P	P
7	22407	JADHAV ARTI MUKINDA	P	p
8	22408	JADHAV UTKARSHA JAYSING	P	P
9	22409	KAWADE SAKASHI DADASO	P	P
10	22410	KAMBLE DIPALI MAULI	P	P
11	22411	KOLEKAR SWATI MAHADEV	P	P
12	22412	KHARAT SWETA SATISH	P	P
13	22413	KUMBHAR SOJWAL SACHIN	P	P
14	22414	KOKATE SHREYA VIJAY	P	P
15	22415	MORE AMRUTA TANAJI	p	p
16	22416	MEHTA DIVYANI PRASHANT	P	P
17	22417	MUNDFANE SHIVANI KUNDLIK	P	P
18	22418	PATHAN AYASHA MUSA	P	P
19	22419	PATIL VAISHNAVI SHIVAJI	P	P
20	22420	SAYYAD SADIYA KARIM	P	P
21	22421	SHAIKH AALISHA RAMJAN	P	P
22	22422	SHAIKH NAJIYA LIYAKAT	P	P
23	22423	SHETE PALLAVI SANJAY	A	A
24	22424	SHINDE SHITAL SATYAWAN	P	P
25	22425	WAGHMODE RASHIKA VISHNU	P	P
26	22426	WAGHMORE SHWETA HANUMANT	P	P
27	22427	CHANDANKAR ANIL SITARAM	P	P
28	22428	JAGTAP SANDIP SITARAM	P	P
29	22429	KADAM ROHAN ASHOK	P	P
30	22430	KOKATE SHIVPRASAD SAHEBRAV	P	P
31	22431	PATHAN AFTAB SHAIKH	P	P
32	22432	SHINDE LAXMAN T	p	p
33	22433	SHAIKH MUSADDI	p	p



**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
**S.Y. B.COM 2022-23**

Sr.No	Roll No	Name Of Student	In	Out
1	22501	ABHANG NIKITA BAPURAO	P	P
2	22502	ADLING DIVYA RAJESH	P	P
3	22503	AVACHAT PRIYANKA RAJENDRA	P	P
4	22504	BHONG DHANASHRI SANJAY	P	P
5	22505	BODAKE DNYANESHWARI SURESH	P	P
6	22506	DEOKAR PRANALI NAVANATH	P	P
7	22507	GAIKWAD AARTI PRADIP	P	P
8	22508	GAIKWAD PRERANA ANIL	P	P
9	22509	GAIKWAD SAKSHI PARSHURAM	P	P
10	22510	GAIKWAD SUPRIYA SHANTILAL	P	P
11	22511	GHADAGE DHANASHRI JAYSING	P	P
12	22512	GHADAGE DIVYA BALASO	P	P
13	22513	INGALE GAYATRI VIJAY	P	P
14	22514	KAMBLE SANJANA KISAN	P	P
15	22515	KANGUDE AARTI VIJAYSINH	P	P
16	22516	KOKATE SAKSHI DATTATRAY	P	P
17	22517	KOKATE TRUPTI LALASAHEB	P	P
18	22518	KUMBHAR HEMALATA SUGANDH	P	P
19	22519	MAGAR RAJVARDHINI SANJAY	P	P
20	22520	MALI KRANTI AJAY	A	A
21	22521	MOTE RADHIKA HARI	P	P
22	22522	NALAWADE SAKSHI VINOD	P	P
23	22523	PHADATARE ANJALI RAJENDRA	P	P
24	22524	RASTE PRIYANKA SANJAY	P	P
25	22525	RAUT NIKITA SHARAD	P	P
26	22526	SHAIKH FIRDOS RAFIK	P	P
27	22527	SURYAWANSHI GAURI VIJAY	P	P
28	22528	TAKTODE SAKSHI BALASO	P	P
29	22529	BHOSALE UDAYSINH SHANKARRAO	P	P
30	22530	INGAWALE-DESHMUKH JAYDEEP RAVINDRA	P	P
31	22531	KATE ANIKET	P	P
32	22532	KADAM SANC	P	P
33	22533	PHULE SIDDH.	P	P
34	22534	THORAVE ASI	P	P





**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
**T.Y. B.COM 2022-23**

Sr.No	Roll No	Name Of Student	In	Out
1	22601	MISS.ADAT GAYATRI RAMCHANDRA	P	P
2	22602	MISS.BHONG SUPRIYA SHIVAJI	P	P
3	22603	MISS.DHUMAL SUMITRA LAXMAN	P	P
4	22604	MISS.KALANGE RUTUJA RAJENDRA	P	P
5	22605	KAMBALE ANKITA PRAKASH	P	P
6	22606	MISS.KHADE MONALI GORAKH	P	P
7	22607	MISS.LALAGE SHURSHTI KHANDERAO	P	p
8	22608	MISS.LOKHANDE MAYURI RAJENDRA	P	P
9	22609	MISS.LONDHE AKANKSHA VIJAY	P	P
10	22610	MISS.MANE PRIYANKA VIJAY	P	P
11	22611	MISS.PATALE PUJA PANDURANG	P	P
12	22612	MISS.PAWAR PRANITA ANIL	P	P
13	22613	MISS.RAUT ASHWINI ANILKUMAR	A	A
14	22614	MISS.RAUT KOMAL SHARAD	P	P
15	22615	MISS.REDE NIKITA SUNIL	P	P
16	22616	MISS.SATPUTE SUPRIYA ASHOK	P	P
17	22617	MISS.SHINDE SWAPNALI NAGNATH	P	P
18	22618	MISS.SUTAR RUTUJA BHANUDAS	P	P
19	22619	MR.MANE SUJAY POPAT	P	P
20	22620	MR.JADHAV ADITYA BHIMARAO	P	P
21	22621	MR.JADHAV ATUL GANPAT	P	p
22	22622	MR.KOKATE SAGAR BALASAHEB	P	P









# NOTICE

All the student of FY, SY & T.Y.B.Sc (CHEMISTRY) are hereby informed that there is a visit arranged on 13/05/2023 Saturday at Pandurang sugar factory Shripur, Tal-Malshiras, Dist-Solapur at 8.30 am .The visit is compulsory since the visit report submission needed for practical final examination for the practical course F.Y, S.Y & T.Y.B.Sc (CBCS Pattern 2019).

All the student have to be present at the college campus at 8.00 am sharply with apron, water bottle and tiffin.



  
Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103



|| Tevo Sada Dnyanmaya Pradeep ||  
Jijamata Shikshan Prasarak Mandal's

## **Jijamata Mahavidyalaya, Sarati**

A/p:- Sarati, Tal. Indapur, Dist. Pune (Pin : 413103) Maharashtra, India  
(Affiliated to Savitribai Phule Pune University, Pune )

Principal  
Dr. A.Y. Lipare  
9822878868

PUN CODE: CAAP020190  
College Code: 1504  
Estd.: 2013

President  
Mr. Appasaheb N.Jagadale  
Jijamata Shikshan Prasarak Mandala

---

San. No.N.G.C.2013 (100/13) Mashi-4, Dt.15 July2013

Uni. Appvl. No. ID.NO PU/PN/SC/458/2013

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**To**  
**The Director,**  
**The Neera-Bhīma Sugar Factory,**  
**Shahajinagar, Tal-Indapur, Dist-Pune**

Subject: Requesting to permit the visit of F.Y, S.Y & T.Y.B.Sc  
Chemistry student of 'Jijamata Mahavidyalaya, Sarati to  
**Industrial visit to Neera Bhīma Sugar Factory, Shahajinagar.**

Respected Sir/Madam,

With the reference to the above subject, chemistry department of Jijamata Mahavidyalaya, Sarati has to arrange F.Y, S.Y & T.Y.B.Sc chemistry student visit to Neera-Bhīma Sugar factory as per practical course syllabus.

We are expecting to know the day to day practical work and activities carried in the factory. We will be very grateful to you if you are ready to cooperate and guide us by giving your valuable time and permission to visit the factory.

Total no of student will be around 49 along with faculty 8.

Thanking you.

Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103

**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
**F.Y.B.Sc 2022-23**

Sr.No	Roll No	Name Of Student	In	Out
1	22101	MISS.CHAVAN RESHMA ABHIMANYU	P	P
2	22102	MISS.CHAVAN RUTUJA BALKRUSHNA	P	P
3	22103	MISS.DEVKAR HARSHADA PANDHARINATH	P	P
4	22104	MISS.KAWADE AKANKSHA SHIVAJI	A	A
5	22105	MISS.KOKATE KAJAL SANJAY	P	P
6	22106	MISS.KOKATE SNEHAL DATTATRAY	P	P
7	22107	MISS.KULKARNI MRUNAL YASHWANT	P	P
8	22108	MISS.SALUNKE PRATIKSHA GANESH	P	P
9	22109	MISS.TELE AMRUTA SHIVAJI	P	P
10	22110	MR.GAIKWAD PRATIK RAVSAHEB	P	P
11	22111	MR.LOKHANDE SAMADHAN NAVNATH	P	P



**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
**S.Y.B.Sc 2022-23**

Sr.No	Roll No	Name Of Student	In	Out
1	22201	BODAKE PRACHI CHANDRAKANT	P	P
2	22202	CHANDANKAR APEKSHA VILAS	P	P
3	22203	CHAVAN DISHA JOTIRAM	P	P
4	22204	CHAVAN RUTUJA DATTATRAY	A	A
5	22205	GAIKWAD SNEHAL BALASO	P	P
6	22206	GHADAGE POONAM POPAT	P	P
7	22207	JADHAV SNEHA SAMPAT	P	P
8	22208	JADHAV VISHAL SAMPAT	P	P
9	22209	JAGDALE KOMAL AJINATH	P	P
10	22210	KECHE GAURI NETAJI	P	P
11	22211	KOKATE SHUBHANGI SHIVAJI	P	P
12	22212	KECHE RUTUJA CHANDRAKANT	P	P
13	22213	MANE PRANOTI SHANKAR	P	P
14	22214	NALAWADE ARPITA NANDKUMAR	P	P
15	22215	NIKAM PRADNYA ANIL	P	P
16	22216	PAWAR VISHAKHA RAJENDRA	P	P
17	22217	TAWARE ASHWINI SIDDHESHWAR	P	P
18	22218	TAWARE PALLAVI BALASO	P	P
19	22201	BODAKE PRACHI CHANDRAKANT	P	P
20	22202	CHANDANKAR APEKSHA VILAS	P	P
21	22203	CHAVAN DISHA JOTIRAM	P	P



**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**

<b>Sr.No</b>	<b>Roll No</b>	<b>Name Of Student</b>	<b>In</b>	<b>Out</b>
1	22301	MISS.BHOSALE ASMITA SHARAD	<b>P</b>	<b>P</b>
2	22302	MISS.GHADAGE SAKSHI KIRAN	<b>P</b>	<b>P</b>
3	22303	MISS.GHOGARE POOJA SATISH	<b>P</b>	<b>P</b>
4	22304	MISS.GHOGARE PRAJAKTA SATISH	<b>P</b>	<b>P</b>
5	22305	MISS.GHOGARE SNEHAL SANTOSH	<b>P</b>	<b>P</b>
6	22306	MISS.GURGUDE KAJAL NAVNATH	<b>P</b>	<b>P</b>
7	22307	MISS. JADHAV ASHWINI MOHAN	<b>P</b>	<b>P</b>
8	22308	MISS.JAGDALE TANUJA NANASAHEB	<b>P</b>	<b>P</b>
9	22309	MR. JAGTAP JIVAN TUKARAM	<b>P</b>	<b>P</b>
10	22310	MR. KECHE PRAVIN NANDU	<b>P</b>	<b>P</b>
11	22311	MISS. MANE KAJAL ASHOK	<b>P</b>	<b>P</b>
12	22312	MISS. MANE NIKITA ARUN	<b>P</b>	<b>P</b>
13	22313	MISS. PHADATARE DNYANESHWARI LAXMAN	<b>P</b>	<b>P</b>
14	22314	MISS. RAJMANE VAISHNAVI PRASHANT	<b>A</b>	<b>A</b>
15	22315	MR. SATPUTE SACHIN RAJENDRA	<b>P</b>	<b>P</b>
16	22316	MISS. WAGHMARE KAJAL UTTAM	<b>P</b>	<b>P</b>
17	22317	MISS. WAGHMODE MAYA VITTHAL	<b>P</b>	<b>P</b>





# Industrial visit to Neera Bhima Sugar Factory, Shahajinagar.

## Report

Day & date of Visit : - 15/05/2023

Place of Visit : - **Industrial visit to Neera Bhīma Sugar Factory, Shahajinagar.**

Subject: Requesting to permit the visit of F.Y, S.Y & T.Y.B.Sc  
Chemistry student of 'Jijamata Mahavidyalaya, Sarati to

**Industrial visit to Neera Bhīma Sugar Factory, Shahajinagar** Jijamata Mahavidyalaya Sarati organized an industrial visit to **Industrial visit to Neera-Bhīma Sugar Factory, Shahajinagar.** We all went to industry in college bus .Bus left the campus by 3.30 pm and reached venue at 4.30 pm. After the security check student were taken to introduction room and given briefing of rules and guidelines to be followed by everyone inside the industry.

We were divide into two batches escorted to assembly lines by the production. Manager Mr.Shinde.M.J and briefly explained how molasses to be done, water recycling process, sugar, alcohol & also molasses production.

Finally we were asked some question water recycling process, sugar, alcohol & also Molasses production. Mr.Shinde.M.J answered each and every question. The industrial visit to Sugar industry enriched our knowledge and experience and also provide opportunity to learn practically through demonstration, exchange of information which helps student in their future Carrier growth.



Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103




# NOTICE

All the student of FY, S.Y.B.Sc (Botany) are hereby informed that there is a visit arranged on 13/05/2023 Saturday at Tissue Culture Lab Malkhambi, Tal-Malshiras, Dist-Solapur at 8.30 am .The visit is compulsory since the visit report submission needed for practical final examination for the practical course FY, S.Y.B.Sc (CBCS Pattern 2019).

All the student have to be present at the college campus at 8.00 am sharply with apron, water bottle and tiffin.



  
Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103



|| Tevo Sada Dnyanmaya Pradeep ||  
Jijamata Shikshan Prasarak Mandal's

## **Jijamata Mahavidyalaya, Sarati**

A/p:- Sarati, Tal. Indapur, Dist. Pune (Pin : 413103) Maharashtra, India  
(Affiliated to Savitribai Phule Pune University, Pune )

Principal  
Dr. A.Y. Lipare  
9822878868

PUN CODE: CAAP020190  
College Code: 1504  
Estd.: 2013

President  
Mr. Appasaheb N.Jagadale  
Jijamata Shikshan Prasarak Mandala

---

**San. No.N.G.C.2013 (100/13) Mashi-4, Dt.15 July2013**

**Uni. Appvl. No. ID.NO PU/PN/SC/458/2013**

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**To**  
**The Director,**  
**The Tissue Culture Lab,**  
**Malkhambi, Tal-Malshiras, Dist-Solapur.**

Subject: Requesting to permit the visit of F.Y, S.Y & T.Y.B.Sc  
Chemistry student of 'Jijamata Mahavidyalaya, Sarati to  
**Industrial visit to** The Tissue Culture Lab, Malkhambi,  
Tal- Malshiras, Dist-Solapur.

Respected Sir/Madam,

With the reference to the above subject, chemistry department of Jijamata Mahavidyalaya, Sarati has to arrange F.Y, S.Y B.Sc. Botany student visit to Tissue Culture Lab as per practical course syllabus.

We are expecting to know the day to day practical work and activities carried in the factory. We will be very grateful to you if you are ready to cooperate and guide us by giving your valuable time and permission to visit the factory.

Total no of student will be around 32 along with faculty 5.

Thanking you.

**Jijamata Mahavidyalaya Sarati**  
**Tal.Indapur, Dist.Pune - 413103**

**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
**F.Y.B.Sc 2022-23**

Sr.No	Roll No	Name Of Student	In	Out
1	22101	MISS.CHAVAN RESHMA ABHIMANYU	P	P
2	22102	MISS.CHAVAN RUTUJA BALKRUSHNA	P	P
3	22103	MISS.DEVKAR HARSHADA PANDHARINATH	P	P
4	22104	MISS.KAWADE AKANKSHA SHIVAJI	P	P
5	22105	MISS.KOKATE KAJAL SANJAY	P	P
6	22106	MISS.KOKATE SNEHAL DATTATRAY	P	P
7	22107	MISS.KULKARNI MRUNAL YASHWANT	A	A
8	22108	MISS.SALUNKE PRATIKSHA GANESH	P	P
9	22109	MISS.TELE AMRUTA SHIVAJI	P	P
10	22110	MR.GAIKWAD PRATIK RAVSAHEB	P	P
11	22111	MR.LOKHANDE SAMADHAN NAVNATH	P	P






**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
**S.Y.B.Sc 2022-23**

Sr.No	Roll No	Name Of Student	In	Out
1	22201	BODAKE PRACHI CHANDRAKANT	P	P
2	22202	CHANDANKAR APEKSHA VILAS	P	P
3	22203	CHAVAN DISHA JOTIRAM	P	P
4	22204	CHAVAN RUTUJA DATTATRAY	P	P
5	22205	GAIKWAD SNEHAL BALASO	P	P
6	22206	GHADAGE POONAM POPAT	P	P
7	22207	JADHAV SNEHA SAMPAT	P	P
8	22208	JADHAV VISHAL SAMPAT	P	P
9	22209	JAGDALE KOMAL AJINATH	P	P
10	22210	KECHE GAURI NETAJI	P	P
11	22211	KOKATE SHUBHANGI SHIVAJI	P	P
12	22212	KECHE RUTUJA CHANDRAKANT	A	A
13	22213	MANE PRANOTI SHANKAR	P	P
14	22214	NALAWADE ARPITA NANDKUMAR	P	P
15	22215	NIKAM PRADNYA ANIL	P	P
16	22216	PAWAR VISHAKHA RAJENDRA	P	P
17	22217	TAWARE ASHWINI SIDDHESHWAR	P	P
18	22218	TAWARE PALLAVI BALASO	P	P
19	22201	BODAKE PRACHI CHANDRAKANT	P	P
20	22202	CHANDANKAR APEKSHA VILAS	P	P
21	22203	CHAVAN DISHA JOTIRAM	P	P







 GPS Map Camera

Shreepur, Maharashtra, India

V433+MCX, Shreepur, Maharashtra 413112, India

Lat 17.853466°

Long 75.103559°

13/05/23 04:53 PM GMT +05:30

Google





## NOTICE

All the student of FY, S.Y.B.Sc (Botany) are hereby informed that there is a visit arranged on 25/05/2022 Saturday at Botanical Garden Khudus, Tal-Malshiras, Dist-Solapur at 8.30 am .The visit is compulsory since the visit report submission needed for practical final examination for the practical course FY, S.Y.B.Sc (CBCS Pattern 2019).

All the student have to be present at the college campus at 8.00 am sharply with apron, water bottle and tiffin.



Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103



|| Tevo Sada Dnyanmaya Pradeep ||  
Jijamata Shikshan Prasarak Mandal's

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Mr. Appasaheb N. Jagdale  
Jijamata Shikshan Prasarak Mandal

**San. No.**N.G.C.2013(100/13)Mashi-4, Dt.15 July2013

**Uni. Appvl. No.** ID.NO PU/PN/SC/458/2013

**To**  
**Director**  
**Botanical Garden, Khudus.**  
**Tal-Malshiras, Dist-Solapur.**


Subject: Requesting to permit the visit of. FY, S.Y.B.Sc (Botany) faculty  
Student of 'Jijamata Mahavidyalaya, Sarati to the Botanical Garden  
Khudus, Tal-Malshiras, Dist-Solapur.

Respected Sir/Madam,

With the reference to the above subject Botany department  
of Jijamata Mahavidyalaya, Sarati has to arrange F.Y& S.Y.B.Sc student visit 'The  
Botanical Garden Khudus, Tal-Malshiras, Dist-Solapur. As per practical course  
syllabus.

We are expecting to know the day to day practical work and  
activities carried in the bank. We will be very grateful to you if you are ready to  
cooperate and guide us by giving your valuable time and permission to visit . Total  
no of student will be 90 around along with faculty 8.

Thanking you.

  
Jijamata Mahavidyalaya Sarati  
Tal.Indapur, Dist.Pune - 413103



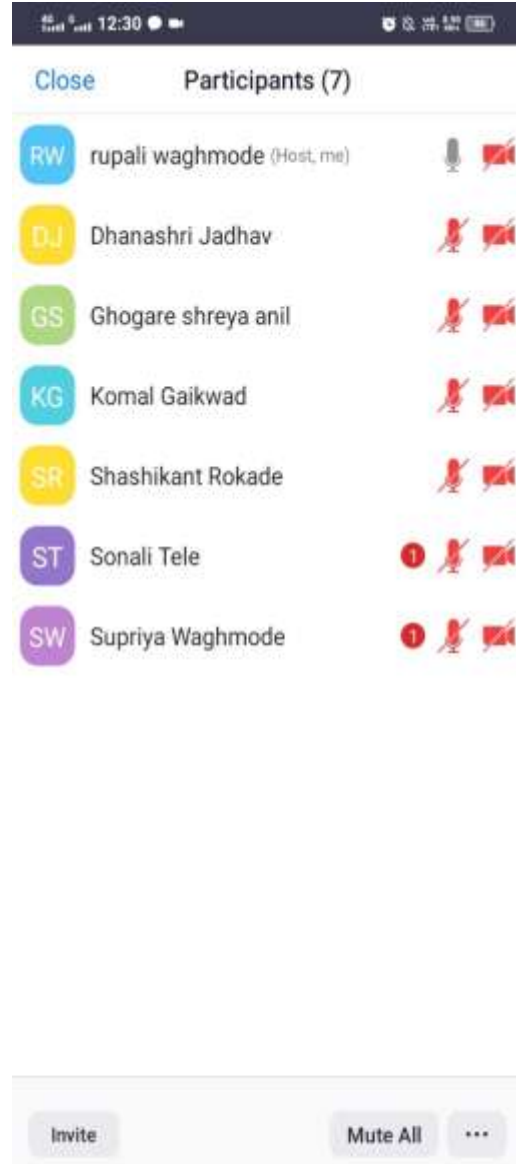
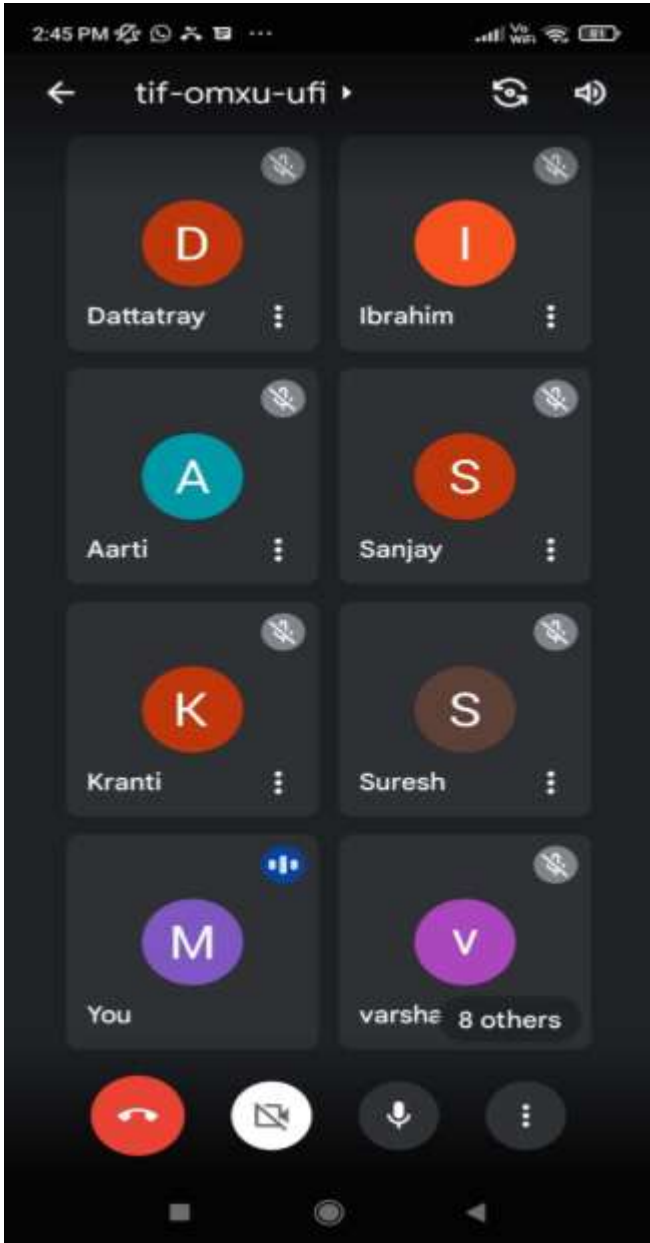
**Jijamata Shikshan Prasarak Mandal's**  
**Jijamata Mahavidyalaya, Sarati**  
**S.Y.B.Sc 2022-23**

Sr.No	Roll No	Name Of Student	In	Out
1	21101	GAIKWAD SNEHAL BALASO	P	P
2	21102	JADHAV VISHAL SAMPAT	P	P
3	21103	JAGDALE KOMAL AJINATH	P	P
4	21104	CHANDANKAR APEKSHA VILAS	P	P
5	21105	KECHE GAURI NETAJI	P	P
6	21106	MANE PRANOTI SHANKAR	P	P
7	21107	JADHAV SNEHA SAMPAT	P	P
8	21108	TAWARE PALLAVI BALASO	P	P
9	21109	TAWARE ASHWINI SIDDHESHWAR	P	P
10	21110	NALAWADE ARPITA NANDKUMAR	P	P
11	21111	CHAVAN RUTUJA DATTATRAY	P	P
12	21112	PAWAR VISHAKHA RAJENDRA	A	A
13	21113	KECHE RUTUJA CHANDRAKANT	P	P
14	21114	NIKAM PRADNYA ANIL	P	P
15	21115	MULANI NURAJANHA SHAHAJAN	P	P
16	21116	KAZADE YOGITA RAJENDRA	P	P
17	21117	GHADAGE POONAM POPAT	P	P
18	21118	KASHID SNEHA RAJKUMAR	P	P
19	21119	CHAVAN DISHA JOTIRAM	P	P
20	21120	SALUNKE VIJAY SANTOSH	P	P
21	21121	MISS.HEGADAKAR PUJA BALASAHEB	P	P
22	21122	MISS.BODAKE PRACHI CHANDRAKANT	A	A
23	21123	MISS.KOKATE SHUBHANGI SHIVAJI	P	P





# Use of Google Meet App For Online Teaching



## ICT enabled-LED Projector and Smart Board.





## Praticipated In Annual Function





## Participating In Flower Arrangement



# Group Discussion





**Library**





**Computer Lab Photo**





NSS Camp







**NSS camp**





**Independence Day-15 August**







**Self Defense Program**





**Teacher's Day Celebration**







## Marathi Rajbhasha Din







**Women's Day Celebration**





**Savitribai Phule Jayanti**





## Mahatma Phule Jayanti







**Nirbhaya Kanya Abhiyan (Police Department)**





Republic Day-26 January







GPS Map Camera



Sarati, Maharashtra, India  
W294+4FG, MH MSH 71, Sarati, Maharashtra 413103, India  
Lat 17.916569°  
Long 75.005869°  
28/04/23 01:06 PM GMT +05:30

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GPS Map Camera



Sarati, Maharashtra, India  
W294+4FG, MH MSH 71, Sarati, Maharashtra 413103, India  
Lat 17.916569°  
Long 75.005869°  
28/04/23 01:00 PM GMT +05:30

Google



## Mehndi Competition





## Mehndi Competition









**Rangoli Competition**







**Dr.Babasaheb Ambedkar jayanti**



डॉ. बाबासाहेब आंबेडकर यांच्या जयंतीनिमित्त विविध उपक्रम उत्साहात

## जिजामाता महाविद्यालयात प्रतिमा पूजन, अभिवादन

लोकमत न्यूज नेटवर्क बारामती : सराटी (ता. इंदापूर) येथील जिजामाता महाविद्यालयात डॉ. बाबासाहेब आंबेडकर यांची जयंती उत्साहात साजरी करण्यात आली. यावेळी डॉ. बाबासाहेब आंबेडकर यांच्या प्रतिमेला प्राचार्य डॉ. अविनाश लिपारे आणि शिक्षकांनी पुष्पहार अर्पण केला.

जिजामाता शिक्षण प्रसारक मंडळाचे अध्यक्ष आप्पासाहेब जगदाळे यांच्या मार्गदर्शनाखाली जयंतीनिमित्त विविध उपक्रम राबविण्यात आले. कार्यक्रमाच्या अध्यक्षस्थानी प्राचार्य डॉ. अविनाश लिपारे होते.

जिजामाता महाविद्यालयाचे राष्ट्रीय सेवा योजनेचे कार्यक्रम अधिकारी प्रा. विजय गेंड यांनी समाजामध्ये शाहू फुले आणि



जिजामाता महाविद्यालय सराटीमध्ये डॉ. बाबासाहेब आंबेडकर यांच्या प्रतिमेला प्राचार्य डॉ. अविनाश लिपारे आणि शिक्षकांनी पुष्पहार अर्पण केला.

आंबेडकर यांचे विचार विद्यार्थ्यांना पटवून दिले. प्रा. मयूर पिसे यांनी शिका संघटित व्हा आणि संघर्ष करा या बाबासाहेबांच्या विचारांचा हेतू विद्यार्थ्यांना सांगितला. प्रा. मनोज भाळे यांसह विद्यार्थी

सोनाली टेळे, सदिया सय्यद यांनी मनोगत व्यक्त केले.

प्रास्ताविक प्रा. मुकुंद सोनवणे यांनी केले. यावेळी सर्व प्राध्यापक वृंद, ओंकार शिंदे, संदीप निकम, रोहिणी अनपट, प्रतीक्षा चव्हाण, तुप्ती

मोरे, पौर्णिमा सपाटे, आफरीन मोमीन, मोनिका सरतापे, वैभव बाबर, मीना मोरे उपस्थित होते. सूत्रसंचालन आरती गायकवाड व फिरदोस शेख यांनी केले. पूनम घाडगे यांनी आभार मानले.

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## Self Defense Program







**Independence Day-15 August**









**The Annual Merit and Prize Distribution**





**Mismatch Day**





**Traditional Day**





### Student Seminar





||Tevo Sada Dnyanmaya Pradeep ||  
 Jijamata Shikshan Prasarak Mandal's  
**JIJAMATA MAHAVIDYALY , SARATI**

T.Y. BSc. Seminar -2022  
 Subject- CHO-507 Organic Chemistry

Date – 22/12/2022

Sr. no	Roll no	Stuedent Name	Seminar Topic	Marks	Sign
				10	
1	1	Mane Nikita Arun	Classification of aromatic compound	09	Mane N
2	2	Ghadage Sakshi Kiran	Naphthalene	08	Sakshi
3	3	Ghogare Prajakta Satish	Anthracene	09	Prajakta
4	4	Ghogare Snehal Santosh	Furan	09	Snehal
5	5	Gurgude Kajal Navnath	Pyrrrole	09	Kajal G
6	6	Jadhav Ashwini Mohan	Thiophene	08	Jadhav A
7	7	Jagdale Tanuja Nanasaheb	Pyridine	09	T. jagdale
8	8	Mane Kajal Ashok	Beckmann rearrangement	08	Mane K
9	9	Keche Pravin Nandu	Baeyer-villiger rearrangement	06	Keche
10	10	Phadatare Dnyaneshwari Laxman	Favorskii rearrangement	06	D. phadatare
11	11	Jagtap Jivan Tukaram	Curtius rearrangement reaction	06	Jagtap J
12	12	Rajmane Vaishnavi Prashant	Claisen rearrangement reaction	07	Vaishnavi
13	13	Satpute Sachin Rajendra	Lossen rearrangement reaction	06	S. Sachin
14	14	Waghmare Kajal Uttam	Pinacol-Pinacolone rearrangement reaction	09	Kajal
15	15	Bhosale Asmita Sharad	Cope rearrangement reaction	08	Asmita B
16	16	Waghmode Maya Vitthal	MC-Lafferty rearrangement reaction	09	Maya
17	17	Ghogare Pooja Satish	elementation reaction	09	G. pooja



[Tevo Sada Dnyanmaya Pradeep ]  
 Jijamata Shikshan Prasarak Mandal's  
**JIJAMATA MAHAVIDYALY, SARATI**

F.Y. BSc.

Seminar-2022

Date -09/12/2022

Subject- CH102 Organic Chemistry

Sr. no	Roll no	Stuedent Name	Seminar Topic	Marks	Sign
1	1	Chavan Reshma Abhimanyu	Introduction	08	<u>ChavanR</u>
2	2	Kulkarni Mrunal Yashwant	Physical effects.	07	<u>Mrunalk</u>
3	3	Devkar Harshda Pandharinath	Electronic displasment	09	<u>Harshda</u>
4	4	Kawade Akanksha Shivaji	Cleavage of Bonds.	06	<u>KawadeA</u>
5	5	Kokate Kajal Sanjay	Structural shape of Organic molecules	07	<u>KokateK</u>
6	6	Kokate Snehal Dattatray	Bond length	08	<u>Kokate</u>
7	7	Gaikwad Pratik Ravsaheb	Bond Angle.	09	<u>PratikG</u>
8	8	Salunke Pratiksha Ganesh	Bond energy.	08	<u>Pratiksha</u>
9	9	Lokhande Samadhan Navnath	Structure & reactivity of Organic molecules.	09	<u>Samadhan</u>
10	10	Tele Amruta Shivaji	Electrophiles & Nucleophiles	08	<u>Amruta</u>
11	11	Chavan Rutuja Balkrushna	reactive intermediates.	07	<u>Rchavaa</u>



{(Evo Sada Dnyanmaya Pradeep)}

Jijamata Shikshan Prasarak Mandal's

**JIJAMATA MAHAVIDYALY, SARATI**

S.Y. BSc.

Seminar-2022

Date -16/12/2022

Subject- BO-231 Taxonomy of Angiosperms & Plant Ecology

Sr. no	Roll no	Stuedent Name	Seminar Topic	Marks	Sign
				10	
1	1	Bodake Prachi Chandrakant	Introduction of angiosperm taxonomy	09	P. Bodake
2	2	Chandankar Apeksha Vilas	defn of angiosperm taxonomy	08	Apeksha
3	3	Chavan Disha Jotiram	scope of angiosperm taxonomy	09	D. Chavan
4	4	Gaikwad Snehal Balaso	objective & importance angiosperm taxonomy	08	Gaikwad
5	5	Ghadage Poonam Popat	Nomenclature of angiosperm taxonomy	09	Ghadage P.P.
6	6	Jadhav Sneha Sampat	study of Annonaceae family	09	Sneha
7	7	Taware Pallavi Balaso	study of brassicaceae family	09	P. Taware
8	8	Jagdale Komal Ajinath	study of myrtaceae family	08	K. Jagdale
9	9	Keche Gauri Netaji	study of rubiaceae family	07	G. Keche
10	10	Kokate Shubhangi Shivaji	study of solanaceae family	08	S. Kokate
11	11	Keche Rutuja Chandrakant	study of aclepiadaceae family	08	R. Keche
12	12	Mane Pranoti Shankar	study of nyctaginaceae family	08	P. Mane
13	13	Nalawade Arpita Nandkumar	study of amaryllidaceae family	07	A. Nalawade
14	14	Nikam Pradnya Anil	Introduction of ecology	07	P. Nikam
15	15	Pawar Vishakha Rajendra	Biological Diversity	08	P. Vishakha
16	16	Taware Ashwini Siddheshwar	Methods of vegetation sampling	07	A. Taware
17	17	Jadhav Vishal Sampat	Genetic Diversity	06	V. Jadhav







## Poster Presentation





|| Tevo Sada Dnyanmaya Pradeep ||

Jijamata Shikshan Prasarak Mandal's

**Jijamata Mahavidyalaya, Sarati**

**Science Day Poster Presentation On 28<sup>th</sup> Feb. 2022**

**Department Of Chemistry**

Sr. no	Student Name	Class	Sign	Name Of Poster
1	Ghogare Sakshi Kiran	T.Y.BSc	<u>Sakshi</u>	Functional Group of Organic compound
2	Ghogare Prajкта Satish	T.Y.BSc	<u>P.Ghogare</u>	Green Chemistry
3	Jadhav Ashwini Mohan	T.Y.BSc	<u>Ashwini J</u>	ABC of chemistry
4	Mane Kajal Ashok	T.Y.BSc	<u>M.Kajal</u>	Organic Chemistry
5	Keche Pravin Nandu	T.Y.BSc	<u>Keche P</u>	Reaction of acid & metals
6	Nalvade Arpita Nandkumar	S.Y.BSc	<u>A.Nalvade</u>	Photosynthesis
7	Ghadage Poonam Popat	S.Y.BSc	<u>Ghadage.P.P</u>	Chemical Bonding
8	Mane Pranoti Shankar	S.Y.BSc	<u>PMane</u>	State of matter
9	Keche Rutuja Chandrakant	S.Y.BSc	<u>RKeche</u>	Green Chemistry
10	Kate Sakshi Mohan	S.Y.BSc	<u>Sakshik</u>	Scientist
11	Taware Pallavi Balaso	S.Y.BSc	<u>Taware</u>	Dry Ice
12	Kokate Kajal Sanjay	F.Y.BSc	<u>Kokate.K</u>	Green Chemistry
13	Kokate Snehal Dattatray	F.Y.BSc	<u>S.Kokate</u>	Green Chemistry



Roll No.

17

Exam Seat No.

8843



Jijamata Shikshan Prasarak Mandal's

**Jijamata Mahavidyalaya Sarati**

Tel : Indapur Dist : Pune 413103

# CERTIFICATE

This is to certify that Mr./Miss. Waghmode Maya vitthal.  
has satisfactorily carried out required practical work according to syllabus prescribed  
by the SAVITRIBAI PHULE PUNE UNIVERSITY for F. Y. B.Sc. / S. Y. B.Sc. /  
T. Y. B.Sc. course and this journal represents his/her bonafide work in the year  
2021 - 2022.

Date :

  
01/03/2022  
Practical In-Charge

  
Examiner

  
01/03/2022  
Head of Department





Date / /20

Page:

Topic \_\_\_\_\_

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COME

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Date / / 20

Page:

NAME :- Waghmode Maya Vitthal

COLLEGE NAME :-

JIJAMATA MAHAVIDYALAYA-  
SARATI LAYA

CLASS : S.Y. BSC

PROJECT NAME:

Guid Name :- Bioremediation.

Momin mam -

Sapate mam -

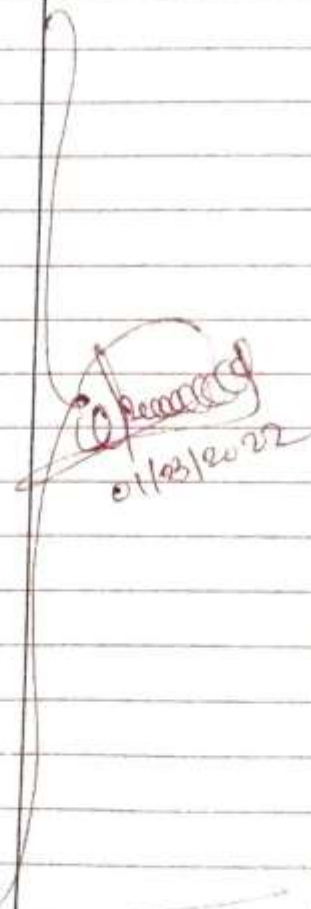


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### Introduction :

Bioremediation is a branch of bio technology that employs the use of living organisms like microbes and bacteria in the removal of contaminants pollutants, and toxins from soil, water and other environments. Bioremediation is used to clean up oil spills or contaminated ground water.

Most cleanup methods because it does not require substantial equipment or labor. By the end of 2018, the United States Environmental Protection Agency (EPA) had brought bioremediation activities to a total of 1,507 sites.



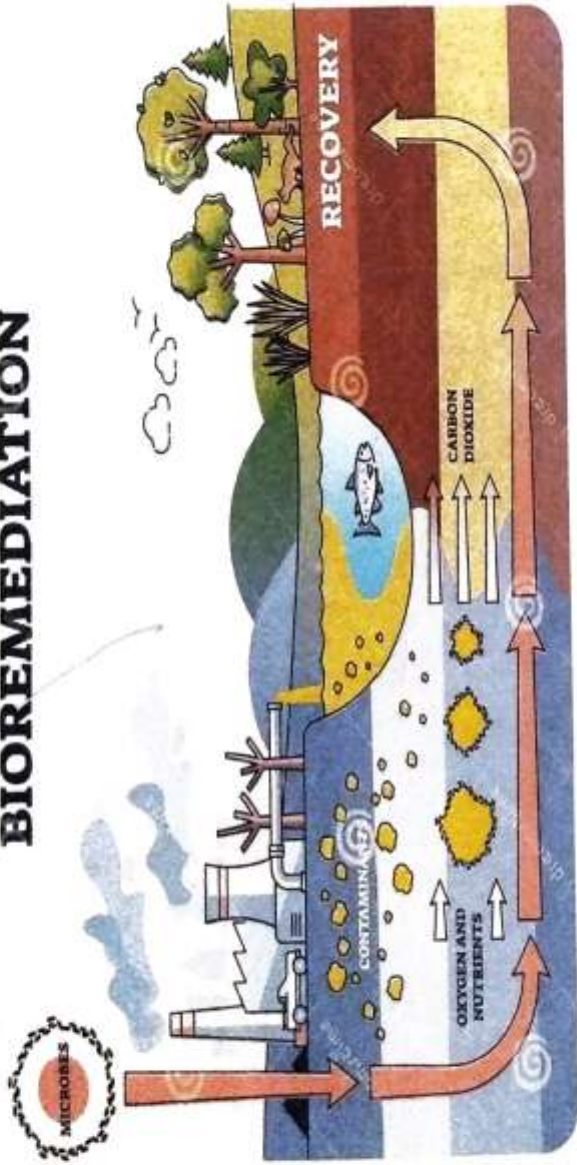
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# BIOREMEDIATION



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## What is Bioremediation?

Bioremediation is a branch of biotechnology that employs the use of living organisms, like microbes and bacteria, in the removal of contaminants, pollutants, and toxins from soil, water and other environments. Bioremediation may be used to clean up contaminated groundwater or environmental problems such as oil spills.





## Types of bioremediation:

### 1. RAJALAKSHMI MSc Biotechnology

In situ on situ Bioremediation  
intrinsic engineered Ex-situ  
Bioremediation Slurry - phase  
Solid - phase

The mainly employed engineered  
in-situ bioremediation are  
Bioventing Biosparging  
Bioaugmentation Biostimulation.

method of treating contami-  
nated soils by drawing  
oxygen through the soil.



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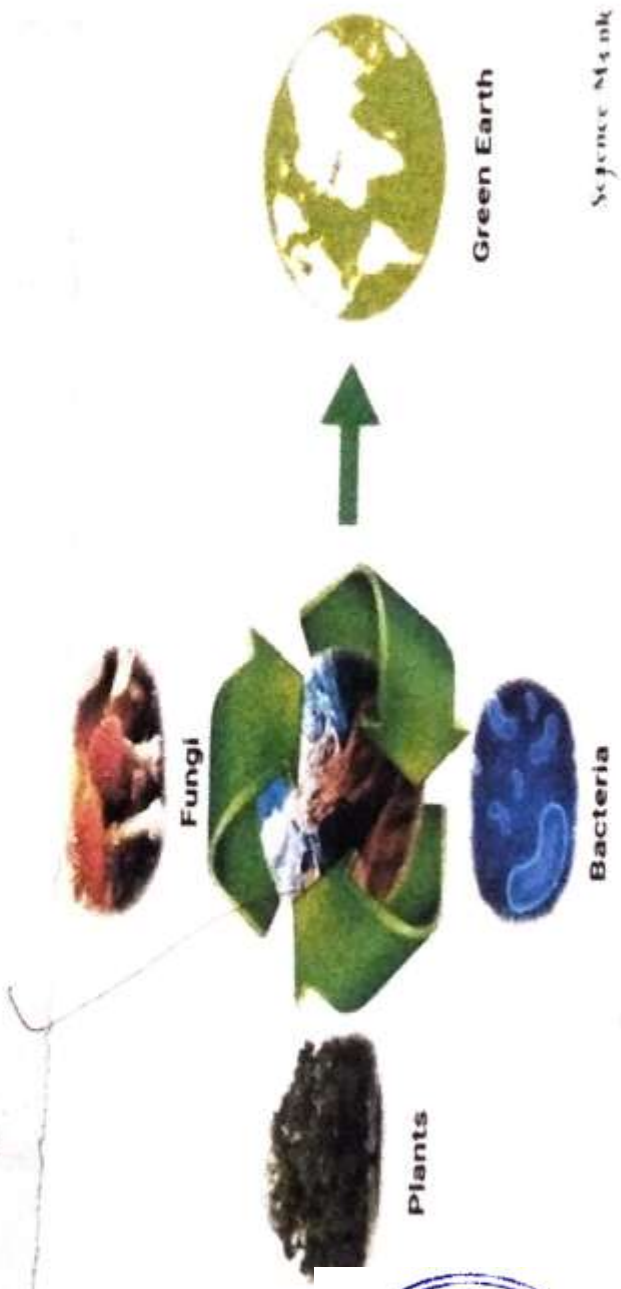
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## Example of Bioremediation.

In 1989, the Exxon Valdez oil tanker ended an aground off the coast of Alaska; the tanker ended up spilling approximately 11 million gallons of oil. Around this same time bioremediation was gaining a reaction as viable for oil cleanup. The EPA and Exxon Mobil Corporation (XOM) both began testing different compounds. Initial tests regarding the effectiveness of bioremediation looked promising.



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## How Bio remediation Works :

Bioremediation relies on Stimulating the growth of Certain microbes that utilize Contaminants like oil, Solvents, and pesticides for Solvents, and Pesticides for Sources of Food and energy. These microbes es for Soures of Food and energy. These microbes Convert Contaminants into Small Amounts of water, as well as harmless gases like Carbon dioxide.



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## Advantages of Bioremediation.

1. It is natural process, and it requires acceptable waste treatment process for contaminated substances such as soil.

2. It is useful for the complete removal of contaminants.

3. It is less expensive than the other mechanisms or technologies that are used for the removal of hazardous waste.

4. The process of in situ bioremediation depends on the various factors which are given below.



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### Disadvantages of Bioremediation.

1. It is limited to those compounds that are bioremediation.

2. It is difficult to generalise from bench and pilot-scale studies to full-scale field operations.

3. It takes longer than other treatment options, such as excavation and removal of soil or incineration.

4. We can say that Bioremediation is the method of the reducing or destroying the concentration of pollutants in the environment.

5. The biological systems it is very cost effective safe and nature based method of detoxifying the pollutants from the environment. It is one of the.



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## BIOREMEDIATION





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Biological treatment, bioremediation, is a similar approach used to treat wastes including wastewater, industrial waste and solid waste.....

Some examples of bioremediation related technologies are phytoremediation, bioventing, bioattenuation, biosparging Composting (biopiles and windrows) and land farming.





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Bioremediation can either be done "in situ", which is at the site of the contamination itself, or "ex situ" which is a location away from the site. Ex situ bioremediation may be necessary if the climate is too cold to sustain microbe activity, or if the soil is too dense for nutrients to distribute evenly.

Ex situ bioremediation may require excavating and cleaning the soil above ground, which may add significant costs to the process.

Bioremediation requires a combination of the right temperature, nutrients, and foods. The absence of these elements may prolong the cleanup of contaminants. Conditions that are unfavorable can be improved by adding "amendments" to the environment, such as molasses, vegetable oil, or simple air.





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How Bioremediation works.

Bioremediation relies on stimulating the growth of certain microbes that utilize contaminants like oil, solvents and pesticides for sources of food and energy. These microbes convert contaminants into small amounts of water, as well as harmless gases like carbon dioxide.

Bioremediation is a branch of biotechnology that employs the use of living organisms, like microbes and bacteria in the removal of contaminants, pollutants and toxins from soil, water and other environments.

Bioremediation is used to clean up oil spills or contaminated groundwaters.



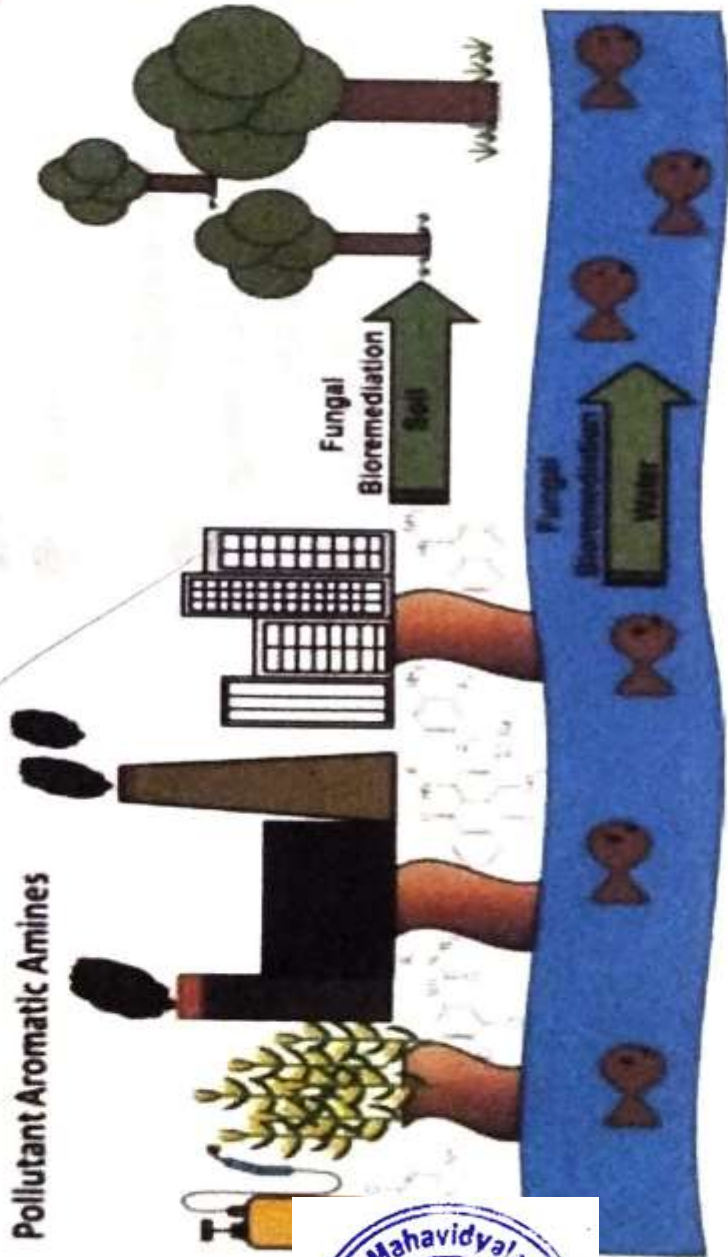
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Pollutant Aromatic Amines



## How Bioremediation Works :

Bioremediation relies on stimulating the growth of certain microbes that utilize contaminants like oil, solvents and pesticides for source of food and energy. These microbes convert contaminants into small amounts of water, as well as harmless gases like carbon dioxide.

Bioremediation is a branch of biotechnology that employs the use of living organisms, like microbes and bacteria, in the removal of contaminants pollutants and toxins from soil water and other environments.

Bioremediation is used to clean up oil spills or contaminated ground water.



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It is natural process and it requires acceptable waste treatment process for Contaminated Substance such as Soil.

It is useful for the complete removal of Contaminants it is less expensive than it is limited to those compounds that are biodegradable it is difficult to generalise from bench limited to those compounds that are biodegradable generalise from bench and pilot - scale studies to full-scale field operations.

It takes longer than other treatment options such as excavation and removal of Soil incineration

Hence we can say that  
• Bioremediation is the method.



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The reducing or destroying the concentration of pollutants in the environment through the bioremediation very cost effective safe and nature-based method of detoxifying the pollutants from the environment.

When the detoxification of waste is done at the original site of the contamination is called In situ Bioremediation. It is mainly used to treat contamination in soil and ground water. But the process of In situ of the bioremediation depends on the various factors which are

given below.



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# Used Bioremediation...

Bioremediation used of the clean up oil or Contaminated groundwater.

Bioremediation may be done in situ - at the site of the contamination - or ex situ - away from the site which is at the site of the contamination itself location away from the site bioremediation may be necessary if the activity or if the soil too dense for nutrients to distribute evenly. Ex situ bioremediation, may require cost to the process.



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Bioremediation requires a combination of the right temperature, nutrients and foods.

The absence of these elements may prolong the cleanup of

contaminants. For bioremediation, the process may be improved by adding of the amendments to the environment such as molasses, vegetable oil, or simple air. These amendments optimize conditions for microbes to flourish, thereby accelerating the completion of the bioremediation process.

The soil above ground, the which and cleaning the soil above ground which may add significant costs to the process.



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The quality of life on earth is linked inextricably to the overall quality of the environment. Waste management is associated with all kinds of waste, whether generated during the extraction of raw materials into intermediate and final products. The consumption of final product or other human activities including municipal agriculture health care household hazardous wastes and sewage sludge. It is a mechanism to reduce adverse effects overcome environmental problem as much as other clean up methodologies.



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## Stories.

List of known galaxies in the universe

what is grassland ecosystem

what is a geomagnetic storm

Triggers are expected to hit earth today.

List of ocean current of the world.

what is the difference between heat wave and cold wave

National energy conservation day Theme, History, Significance and key facts.



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bioremediation the branch of biotechnology that uses biological process to overcome of the environmental problem microorganisms bacteria that can break down the undesirable of substance.

Land farming : solid phase treatment system for contaminated soils may be performed.

Addition of bacterial cultures to a frequently.



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## Conclusion

Bioremediation is considered as a safe and sustainable technology as it relies on the action of microorganisms for the removal of contaminants from the waste which can be wastewater or soil.



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Thank

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