



Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai
Department of Chemistry



REPORT

Industrial Visit at Kisan Veer Satara Co-operative Sugar Factory

Date : 24/01/2019

An Industrial visit at Kisan Veer Satara Co-operative Sugar Factory, Bhuinj and Soil Testing Laboratory was organized by Department of chemistry on Thursday, 24/01/2019 for the students of B.Sc. III.

- Visit to soil testing laboratory :

The soil testing lab next to the sugar factory was visited by the students. There, students received insightful information from Mrs. Rupali Khare Madam. First, they explained how to gather up soil samples from various fields by excavating them. The components and nutrients that are present in the soil are found by soil testing. She also recommends using biofertilizers in agriculture.

Production of Cane Sugar involves a series of unit operations the respected persons and workers explained the process to students as below :

1. **Extraction of juice:** After washing to get clear of mud and waste, and the cane is sliced into small pieces on the diagonal. The chips pass into a milling train that consists of four rolled mills and two rolled crushers. The pans below the second, third, and fourth mills are basic containers. The boiling house received the juice.
2. **Clarification of juice:** The extracted cane juice is a clear, greenish liquid that has an acidic taste. It contains both soluble and insoluble substances, such as dirt and finely divided pith fiber, as well as organic acids, proteins, glucose, and fructose. They are first eliminated by the process of lime deficiency. A hydrometer is also used to verify the quality of the juice that is taken from each mill. Purity is 75–80% if it is 16–17 brisk. The clear juice recovered from the fourth mill is checked for transparency using a sucrose scan equipment. The ideal range for transparency is 50–55%. The sucrose scan machine checks a fresh sample of clear juice every two hours. When lime milk is added, the freshly extracted juice's pH, which is 5.1–5.7, rises to 7.5–8.5.
3. **Concentration of juice to syrup:** After being concentrated in two steps by evaporating water, the clarified juice is diluted and contains roughly 85% water.
4. **Crystallization of sugar:** In a single effect vacuum pan, the water content of the sugar syrup is further lowered to crystallize the sugar.
5. **Centrifugation :** In a centrifuge machine, the sugar crystals are separated from the mother liquid.
6. **By-products of sugar Industry:**
 - 1 . bagasse
 2. molasses

- Manufacture of Ethyl Alcohol : Molasses is primarily used in the production of ethyl alcohol. The molasses nutrition media is used to develop the yeast cells. To create ethyl alcohol, they partially oxidize the carbohydrates in molasses. There is 99.9% pure alcohol in rectified spirit. The facility produces between 4000-5000 metric tons per day.

- Total 62 students in which 34 were male students and 28 were female students along with 6 faculty members had visited the sugary industry.


Head

Department Of Chemistry
Kisan Veer Mahavidyalaya, Wai



Department of Chemistry


Kisan Veer Mahavidyalaya, Wai

Date: 21/01/2019

NOTICE

All students of B.Sc. III are here by informed that a study tour at Sugar Factory and Alcohol unit (Kisan Veer Satara Sahakari Sakhar Karakhana, Ltd. Bhuj) is organized by department of chemistry on Thursday 24/01/2019 at 10:00 am. So all students should remain present for the same.




Head
Department Of Chemistry
Kisan Veer Mahavidyalaya, Wai



■ Shri. Prataprao Bhosale - President & Trustee
Janata Shikshan Sanstha, Wai

■ Shri. Laxmanrao Jadhav (Patil) - Vice President & Trustee
Janata Shikshan Sanstha, Wai

Janata Shikshan Sanstha's

KISAN VEER MAHAVIDYALAYA, WAI, (Dist. Satara) Maharashtra Pin: 412803

Affiliated to Shivaji University, Kolhapur, S. U. Affl. T-2-28741

NAAC Accredited Status: B with CGPA 2.885

जनता शिक्षण संस्थेचे,

किसन वीर महाविद्यालय, वाई, (जि. सातारा) महाराष्ट्र पिन : ४१२८०३

शिवाजी विद्यापीठ, कोल्हापूर शि. वि. सं. टी - २-२८७४१ संलग्नीत

नेक अधिस्विकृती : 'बी' सीजीपीए २.८८५

Website : <http://www.kvmwai.org> E-mail: prin.kvmwai@rediffmail.com oskvmwai@rediffmail.com

Principal

Dr. C. G. Yeole

M.Sc. Ph.D.,

Ph. (Off./Fax) 02167-220130

Principal : 02167-221972



Kisan Mahadeo Veer

Founder President
Janata Shikshan Sanstha, Wai

प्राचार्य

डॉ. सी. जी. येवले

एम.एससी. पीएच.डी.

दूरध्वनी : (कार्या./फॅक्स) ०२१६७-२२०१३०

प्राचार्य - ०२१६७-२२१९७२

Ref. :
संदर्भ : 2018-19 / Chem / 281

Date :
दिनांक : 22/01/2019.

To,
The Managing Director,
Kisan Veer Satara Sahakari Sakhar Karkhana Ltd,
Bhuinj Tal-Wai, Dist-Satara

Sub- Visit to Sugar factory and alcohol unit.....

Respected Sir,

Our B.Sc. part – III, (Chemistry) students are interested to visit the Sugar factory and Alcohol unit on Thursday, 24/01/2019 at 10:00 am. Please grant the permission.

Thanking you,

Yours faithfully,

E. Balerao
Principal

Kisan Veer Mahavidyalaya, Wai



■ Shri. Prataprao Bhosale - President & Trustee ■ Shri. Laxmanrao Jadhav (Patil) - Vice President & Trustee
Janata Shikshan Sanstha, Wai

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शिवाजी विद्यापीठ, कोल्हापूर शि. वि. सं. टी -२-२८७४१ संलग्नीत
नॅक अधिस्विकृती : 'बी' सीजीपीए २.८८५
Website : <http://www.kvmwai.org> E-mail: prin.kvmwai@rediffmail.com oskvmwai@rediffmail.com

Principal
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Kisan Mahadeo Veer
Founder President
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प्राचार्य
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एम्. एस्. सी. पीएल्. डी.
दुरधनी : (कार्या./कॅम्पस) ०२१६७-२२०१३०
प्राचार्य - ०२१६७-२२१९७२

Ref. :
संदर्भ : 2018-19 /chem /29

Date :
दिनांक : 28/01/2019

To,
The Managing Director,
Kisan Veer Satara Sahakari Sakhar Karkhana Ltd,
Bhuinj Tal-Wai, Dist-Satara

Sub- Vote of Thanks.....

Respected Sir,

In continuation of our efforts to impart all possible knowledge to our students, students from B.Sc. III 62 students of our Kisan Veer Mahavidyalaya, Wai (Satara) with 6 staff visited your sugar factory on 24th January 2019.

During the visit concern employees of your sugar factory provided all the information about the plant operation, Quality Control, Process of manufacturing the Product to the students.

We are very much thankful to you for co-operation extended during the visit. Expecting the same co-operation in future.

Thanking you,

Yours faithfully,


Principal

Kisan Veer Mahavidyalaya, Wai

JANATA SHIKSHAN SANSTHA'S
KISAN VEER MAHAVIDYALAYA, WAI
DEPARTMENT OF CHEMISTRY
INDUSTRIAL VISIT

Kisan Veer Satara Sahakari Sakhar Karakhana, Ltd. Bhuinj

ATTENDANCE
2018-2019

Date: 24/01/2019

Sr. No.	Roll No.	Name of Participant	Class	Gender	Signature
1	1	chaugule srushti S.	B.Sc. III	female	s.s.chaugule
2	2	Bagwan Sana Inrus	B.Sc. III	female	B.S. Inrus
3	3	Momin Sanjya Tajuddin	B.Sc. III	Female	Momin
4	4	Dudhe mayuri Rajendra	B.Sc. III	female	Dudheme
5	307	Yadav Dhiraj Balasa	B.Sc. III	male	Yada
6	305	Helbar Aniket Bhorat	B.Sc. III	male	Helbar
7	203	Jadhav AKSHAY RAMINDRA	B.Sc. III	male	Jadhav
8	21	Bhise Manjusha Mohan	B.Sc. III	female	B.Manjusha
9	299	Yadav Pranay Rajendra	B.Sc. III	m	Yadav
10	10	Bhosale pooja machhindra	B.Sc. III	female	Bhosale
11	05	Motar Megha .R	B.Sc. III	female	M.M.R
12	9	ADSUL PRIYANKA .D	B.Sc. III	female	ADSUL P.
13	17	Dhebe Poonam B	B.Sc. III	female	P.B.D
14	14	Londhe madhavi Asha	B.Sc. III	female	M.Ash
15	43	Godake Premanand B	B.Sc. III	male	Godake P
16		Dhuma ABSheulk P.	B.Sc. III	male	D.A.P.
17	42	Gardi Akshay S.	B.Sc. III	male	Gardi A.
18	26	Shinde shubham V	B.Sc. III	male	Shinde
19	30	Kalel Pravina Vilas	B.Sc. III	Female	K.P.Pravina
20	20	karpe sayali laxman	B.Sc. III	Female	karpe
21	21	Bhise manjusha M.	B.Sc. III	female	Bhise M.M
22	201	Jadhav BUSHIKESH CHANDRA	B.Sc. III	male	Jadhav
23	35	Pisal onkar dattatray	B.Sc. III	male	Pisal
24	202	Chavan Rokhn .P	B.Sc. III	male	Chavan
25	25	Karande Priya chhagan	B.Sc. III	female	Karande
26	302	Kirve Akash D.	B.Sc. III	male	Kirve A.D.
27	51	Pisal Pooja Uttamrao	B.Sc. III	female	Pisal
28	44	Malusare Akshay	B.Sc. III	male	Malusare
29	298	Sankepal Sagar C.	B.Sc. III	male	Sankepal



JANATA SHIKSHAN SANSTHA'S
2018-2019

Date: 24/01/2019

Sr. No.	Roll No.	Name of Participant	Class	Gender	Signature
30	30	Gadhare Rushikesh	B.Sc. III	Male	R.S. Gadhare
31	54	Pise Uddhav Sanjay	B.Sc. III	Male	U.S. Pise
32	55	Sankpal Mathanesh K.	B.Sc. III	Male	Sankpal K.
33	64	Shelar Manika Madhukar	B.Sc. III	Female	Shelar Manika
34	118	Bharte Pragati Sanjay	B.Sc. III	Female	Bharte P.S.
35	117	Dhumal Nikhil V	B.Sc. III	Male	Dhumal
36	27	Pawar Shrutika Dilip	B.Sc. III	Female	S.P. Pawar
37	37	Shelar Dipali Ananda	B.Sc. III	Female	Dipali
38	23	Shinde Nikita Balkrishna	B.Sc. III	Female	N.B. Shinde
39	269	Tangade Sham V.	B.Sc. III	M	S.V. Tangade
40	20	Karpe Saijli L.	B.Sc. III	Female	K. Karpe
41	281	Jadhav Prashant A.	B.Sc. III	M.	P. Jadhav
42	118	Kadam Snehal V.	B.Sc. III	Female	S. Kadam
43	33	Raut Rushikesh Sanjay	B.Sc. III	Male	R.H. Raut
44	304	Kamble Akash Ashok	B.Sc. III	Male	A. Kamble
45	45	Gaikwad Nikita Vijay	B.Sc. III	Female	Gaikwad
46	46	Jadhav Amruta S.	B.Sc. III	Female	A.S. Jadhav
47	155	Bhosale Mansi Pratap	B.Sc. III	Female	Bhosale
48	287	Chavan Shubham B.	B.Sc. III	M	S. Chavan
49	180	Yadav Aniket R.	B.Sc. III	Male	A. Yadav
50	281	Gadhare Abshay	B.Sc. III	M	A. Gadhare
51	51	Pisal Pooja Uttamrao	B.Sc. III	Female	Pisal
52	52	Shelar Akash Bapurao	B.Sc. III	Female	A. Shelar
53	146	Wagh Sujit Vikas	B.Sc. III	Male	V. Wagh
54	230	Ranjane Akshay T.	B.Sc. III	Male	Ranjane
55	293	Pawar Rahul Vilas	B.Sc. III	Male	Pawar
56	295	Yadav Pratib Rajendra	B.Sc. III	Male	Yadav
57	57	Vasave Madhumala	B.Sc. III	Female	M. Vasave
58	296	Bhosale Dhing Jaywant	B.Sc. III	Male	Bhosale
59	29	Kalel Ravina Vilas	B.Sc. III	Female	Kalel
60	089	Talewar Pooja Rajendra	B.Sc. III	Female	Talewar
61		Pandit Vipul Prakash	B.Sc. III	Male	Pandit
62	210	Shinde Shubham S.	B.Sc. III	Male	S. Shinde

Male - 34
Female - 28
Faculty - 06

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Kisan Veer Satara Sahakari Sakhar Karkhana Ltd, Bhuinj

Date: 24/01/2019

