

REPORT

Industrial Visit at Kisan Veer Co-operative Sugar Factory

Date : 11/02/2023

An Industrial visit at Kisan Veer Co-operative Sugar Factory, Bhuinj was organized by Department of chemistry on Saturday 11/02/2023 for the students of B. Sc. III.

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:** the cane is washed to remove dirt and mud then cut diagonally into small pieces. The chips sent to milling train two rolled crusher followed by four rolled mills. The pans below 2nd, 3rd & 4th mills are simple containers. The juice sent to boiling house.
- 2. Clarification of juice:** the extracted cane juice is acidic ,opaque and greenish liquid. It contains soluble impurities like glucose, fructose, organic acids, proteins etc. and insoluble impurities like finely divided pith fibre and mud. Firstly they are removed by lime defecation process. Also the purity of juice extracted from each mill is checked by Hydrometer. if it is 16-17 briks then purity is 75-80%. Sucrose scan machine is used to check transparency of clear juice extracted from 4th mill. Transparency should be between 50-55%. In each two hour new sample of clear juice is checked by the sucrose scan machine. The pH of freshly extracted juice is 5.1-5.7 is increased to 7.5-8.5 by adding milk of lime.
- 3. Concentration of juice to syrup:** The clarified juice is dilute and has about 85% of water it is concentrated in two stages by evaporating water.
- 4. Crystallization of sugar:** to crystallize sugar water content of sugar syrup is further reduced in single effect vaccum pan.
- 5. Centrifugation :** The sugar crystals are separated from mother liquor in centrifuge machine.
- 6. By-products of sugar Industry:**
 - 1 . bagasse
 2. molasses
 - **Manufacture of Ethyl Alcohol :** The most important use of molasses is in manufacture of ethyl alcohol. The yeast cells are grown in molasses nutrient medium. They incompletely oxidize the sugars present in molasis to form ethyl alcohol. Rectified spirit is (99.9% pure alcohol). The daily production of the factory is about 4000-5000 metric ton.
 - **Visit to soil testing laboratory :**

The students had visited to the soil testing laboratory near the sugar factory. There Mrs. Rupali Khare madam gave valuable information to our students. They explained firstly how to collect sample from field by digging the the soil from several areas of field. The soil testing involves the detection of elements and nutrients present in the soil. She also suggest to use biofertilisers for farming.

Total 72 students in which 49 were male students and 23 were female students along with 7 faculty members had visited the sugary industry.



[Signature]
Principal

Kisan Veer Mahavidyalaya, Wai
Tal. Wai, Dist. Satara

[Signature]
Head

Department Of Chemistry
Kisan Veer Mahavidyalaya, Wai

Department of Chemistry,
Kisan Veer Mahavidyalaya, Wai.
Date: 08.02.2023

NOTICE

All the students of B.Sc. III are hereby informed that a study tour at Sugar factory and Alcohol Unit (Kisan Veer Sahakari Sakhar Karkhana, Ltd. Bhuij) is organized by department of chemistry on Saturday 11.02.2023 at 10:00 am. So, all students should remain present for the same.



[Handwritten Signature]

Head
Department of Chemistry



किसन वीर महाविद्यालय, वाई

ता. वाई, जि. सातारा, महाराष्ट्र पिन - ४१२ ८०३

शिवाजी विद्यापीठ, कोल्हापूर संलग्नीत

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UDISE No. : 27311111516

Index No. : J21.11.001



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डॉ. गुरुनाथ जी. फगरे

प्राचार्य

मोबा. नं. ९४२९९०७६३५ / ९४०४९४०३७९

श्री. शंकरराव दाजीबा गाडवे

उपाध्यक्ष

जनता शिक्षण संस्था, वाई

श्री. मदन प्रतापराव भोसले

अध्यक्ष

जनता शिक्षण संस्था, वाई

संदर्भ क्र. : 109/1318

To,

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

दिनांक : 07-02-2023

Sub:- Visit to Sugar factory & alcohol unit.....

Respected Sir,

Our B.Sc. part – III, (Chemistry) students are interested to visit the Sugar factory and Alcohol unit on Saturday, 11.02.2023 at 10.00 am. Please grant the Permission.

Thanking you,

Yours faithfully,



Sawant
Principal

Dr. G. N. F.
07/02/23
ok
B. S. M.



जनता शिक्षण संस्थेचे

किसन वीर महाविद्यालय, वाई



किसन महादेव वीर
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डॉ. गुरुनाथ जी. फगरे

प्राचार्य

मोबा. नं. ९४२९९०७६३५ / ९४०४९४०३७९

श्री. शंकरराव दाजीबा गाडवे

उपाध्यक्ष

जनता शिक्षण संस्था, वाई

श्री. मदन प्रतापराव भोसले

अध्यक्ष

जनता शिक्षण संस्था, वाई

संदर्भ क्र. :

109/ 1360

दिनांक :

15.02.2023

To,
The Managing Director,
Kisan Veer 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 72 students of our Kisan Veer Mahavidyalaya, Wai (Satara) with 7 staff visited your company on 11th February 2023.

During the visit, concerned employees of your company 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 cooperation extended during the visit. Expecting the same cooperation in future.

Thanking You,

Yours faithfully,



[Signature]
Principal

[Signature]
15/2/23

[Signature]

JANATA SHIKSHAN SANSTHA'S
KISAN VEER MAHAVIDYALAYA, WAI
DEPARTMENT OF CHEMISTRY
STUDY TOUR AT SUGAR FACTORY AND ALCOHOL UNIT

B.Sc. III

2022-2023

Attendance				Date: 11.02.2023	
Sr. No.	Roll No.	Name of Participant	Class	Gender	Signature
1	22	Dhumal Sumit Mahesh	B.Sc. III	male	
2	146	Jagtap Anilesh . Ajit	B.Sc. III		
3	25	Yadav Sanket	B.Sc. III		
4	145	Dhumal pranil Pramod	B.Sc. III		
5	4	Pisal Yash Jitenchav	B.Sc. III		
6	5	pawar Tejal Bharuchis	B.Sc. III		
7	48	Jaindade Prajwal V.	B.Sc. III		
8	118	Salunkhe Sourbh	B.Sc. III		
9	119	Vinay shevale	B.Sc. III		
10	112	Bhosale Anshan	B.Sc. III		
11	215	Jajgude Nishant . P	B.Sc. III		
12	150	Dhumal sanket	B.Sc. III		
13	74	Kumbhar Mayur	B.Sc. III	male	
14	195	pawar Vishal	B.Sc. III		
15	198	Bhosale kunal	B.Sc. III		
16	162	Jagtap Shubham D.	B.Sc. III		
17	23	Salaskar Aditya M.	B.Sc. III	male	
18	35	Waghmare Vishal P	B.Sc. III		
19	139	Paspure Yash Vijay	B.Sc. III		
20	03	Dhumal Akash S.	B.Sc. III		
21	24	Dhumal Abhishek N.	B.Sc. III		
22	34	Puri sohan V.	B.Sc. III	male	
23	107	shinde shirdas	B.Sc. III	male	
24	148	Jagtap Prathamesh	B.Sc. III		
25	104	mhangade Pratik	B.Sc. III		
26	158	shinde Aditya	B.Sc. III		
27	154	Rakode Sangram	B.Sc. III		
28	63	Wagh Omkar Shivaji	B.Sc. III		
29	27	shivhare prafalla	B.Sc. III		
30	112	Bhosale Roshan	B.Sc. III		
31	178	Tarade Pranjal	B.Sc. III		
32	179	Tarade Girish	B.Sc. III		
33	217	Gimvekas-Ajay	B.Sc. III		
34	13	Abhishek sanas	B.Sc. III		
35	151	Atharv Salunke	B.Sc. III		
36	109	Pratik Mhangde	B.Sc. III		
37		Wagh Omkar Ajit	B.Sc. III		

Sr. No.	Roll No.	Name of Participant	Class	Gender	Signature
38	157	chikane Siddhi Ramesh	B.Sc. III	Female	Chikane
39	156	chikane Riddhi Ramesh	B.Sc. III	Female	Chikane
40	210	Jadhav Nikita Sambhaji	B.Sc. III	Female	Jadhav
41	217	Bhasale sidhbanti Dattatray	B.Sc. III	Female	Bhasale
42	160	Thorave Prajakta Satish	B.Sc. III	Female	Thorave
43	70	Gadhare Shivajali Rajendra	B.Sc. III	Female	S.R.Gadhare
44	73	Ranjane Shratika Subhash	B.Sc. III	Female	Ranjane
45	10	Yadav Rutuja shrawan	B.Sc. III	Female	R.S.Yadav
46	105	Bhandirge Dhanshree R	B.Sc. III	Female	B.Bhandirge
47	109	Korpe Tejaswini Satwar	B.Sc. III	Female	Korpe
48	21	shinde Dipti Digambar	B.Sc. III	Female	Dipti Shinde
49	18	Shivhare Sonam Sambhaji	B.Sc. III	Female	Shivhare
50	108	Nikam Kajal Vikas	B.Sc. III	Female	K.V.Nikam
51	19	Gole Nikita Dattatray	B.Sc. III	Female	Gole
52	185	Kazi Ayan Latif	B.Sc. III	Male	Kazi
53	30	Kamble Shubham	B.Sc. III	Male	Kamble
54	142	Mohite Aniket	B.Sc. III	Male	Mohite
55	143	Mohite Rajat Jayawant	B.Sc. III	Male	Mohite
56	144	Ghoshade Shaikant Shantaram	B.Sc. III	Male	S.S.Ghoshade
57	185	Jagtap Sumit Pravin	B.Sc. III	Male	S.P.Jagtap
58	175	Mehangade Rushikesh	B.Sc. III	Male	Mehangade
59	176	Erande Pooja Anil	B.Sc. III	Female	P.A.Erande
60	114	Shingute Nulki Remdas	B.Sc. III	Female	Shingute
61	07	Pisat Poochi Uttamrao	B.Sc. III	-11-	Pisat
62	08	Bhosale Smita Anil	B.Sc. III	-11-	Bhosale
63	136	Jadhav Vaishnavi Abhij	B.Sc. III	-11-	V.A.Jadhav
64	147	Gaitwad Nikita Sanjay	B.Sc. III	-11-	Gaitwad
65	149	shinde Rutuja G	B.Sc. III	-11-	shinde
66	68	Mandhase Shweta Shantaram	B.Sc. III	-11-	Mandhase
67	20	Mandhase Shivani Ramesh	B.Sc. III	Female	S.R.Mandhase
68	117	Bhilage Aaditya Vijay	B.Sc. III	Male	Bhilage
69	120	mandhase shubham D	B.Sc. III	Male	mandhase
70	67	shelar Prathmesh D.	B.Sc. III	Male	shelar
71	202	Rutik Deepk Bhikane	B.Sc. III	Male	Rutik
72	90	kiran shantaram Bhande	B.Sc. III	Male	kiran
73			B.Sc. III		
74			B.Sc. III		
75			B.Sc. III		
76		Male = 49	B.Sc. III		
77		Female = 23	B.Sc. III		
78		Faculty = 7	B.Sc. III		
79		Total = 79	B.Sc. III		
80			B.Sc. III		
81			B.Sc. III		

VISIT AT SUGAR INDUSTRY





किसनवीर सातारा सहकारी साखर कारखाना लि., भुईंज.
किसनवीरनगर, ता. वाई, जि. सातारा.

गेटपास

No. 2663

दि. 11-2-23


साठी

नांव ~~किसनवीर कोलेज वरि~~

एकूण संख्या 7278

हामाचे स्वरूप :- कारखाना पहाणे / कामगारस भेटण्यासाठी

कारखान्यात जाण्याची वेळ - 11/००


सुरक्षा अधिकारी

चना : सुरक्षिततेची सर्व जबाबदारी कारखाना पहाणाऱ्यावर राहिल.