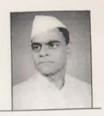


Janata Shikshan Sanstha's

Kisan Veer Mahavidyalaya, Wai Department of Chemistry



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:

- 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 excracted 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 defication process. Also the purity of juice exctracted 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 exctracted 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 exctracted juice is 5.1-5.7 is increased to 7.5-8.5 by adding milk of lime.
- Concentraction of juice to syrup: The clarified juice is dilute and has about 85% of water it is concentracted in two stages by evaporating water.
- 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 explaned firstly how to collect sample from field by digging the the soil from several areas of field. The soil testing envolves 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.

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

Wai Head
Department Of Chemistry
Kisan Veer Mahavidyalaya,War

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. Bhuinj) is organized by department of chemistry on Saturday 11.02.2023 at 10:00 am. So, all students should remain present for the same.

SSA/A

Head Department of Chemistry जनता शिक्षण संस्थेचे



किसन वीर महाविद्यालय, वाई

ता. वाई, जि. सातारा, महाराष्ट्र पिन – ४१२ ८०३ शिवाजी विद्यापीठ, कोल्हापूर संलग्नीत NAAC Accredited : B' (CGPA 2.66)

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UDISE No. : 27311111516 Index No. : J21.11.001



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डॉ. गुरूनाथ जी. फगरे

प्राचार्य मोबा. नं. ९४२११०७६३५ / ९४०४१४०३७१

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श्री. शंकरराव दाजीबा गाढवे

उपाध्यक्ष जनता शिक्षण संस्था, वाई थ्री. मदन प्रतापराव भीसले अध्यक्ष

जनता शिक्षण संस्था, वाई

दिनांक: 07-02=2023

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

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,

Principal

Dente de Bezne

जनता शिक्षण संस्थेचे



किसन वीर महाविद्यालय, वाई

ता. वाई, जि. सातारा, महाराष्ट्र पिन - ४९२ ८०३ शिवाजी विद्यापीठ, कोल्हापूर संलग्नीत NAAC Accredited : B' (CGPA 2.66) Website : www.kvmwai.edu.in

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अध्यक्ष जनता शिक्षण संस्था, वाई

संदर्भ क्र. :

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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,

Principal

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BSL

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

STUDY TOUR AT SUGAR FACTORY AND ALCOHOL UNIT

B.Sc. III

2022-2023

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VISIT AT SUGAR INDUSTRY















