

"Dissemination of Education for Knowledge, Science and Culture"

-Shikshanmaharshi Dr. Babuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Dattajirao Kadam Arts, Science & Commerce

College, Ichalkaranji.

Industrial Visit Report 2024-25



Department : Chemistry

Programme : Organized "Industrial Visit"

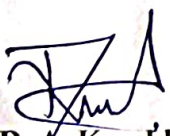
Organizer : Department of Chemistry,
Dattajirao Kadam Arts, Science and Commerce
College Ichalkaranji.

Location : **Kallappa Anna Awade Jawahar Shetkari Karkhana**
Ltd. Hupari-Yalgud.

Date : 4th January, 2025

Participants : B. Sc. III Chemistry Students
Male: 08, Female: 14, Total: 22

Report : B. Sc. III Chemistry students and faculty
member are visited to "Industrial Visit" at
Kallappa Anna Awade Jawahar Shetkari Karkhana
Ltd. Hupari-Yalgud.


Dr. D. A. Kumbhar
HEAD,

Department of Chemistry,
Dattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJI.




Dr. S. M. Maher

Principal,
D.K.A.S.C. College,
Ichalkaranji.

Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji.



Tal. Hatkanangale, Dist. Kolhapur - 416 115. Office : (0230) 2420 412

Principal : (0230) 2991617 ✉ Email : dkasccollege@gmail.com 🌐 Website : www.dkasc.ac.in

(Permanently Affiliated to Shivaji University, Kolhapur - No. Affi/T-2/5049 dt. 10-07-1999)

ज्यु. कॉलेज-शासन आदेश क्रमांक - एचएससी/०७/वीस/एकवीस, दि.६-५-१९७६ Jr. Index No. J-23.06.001

Founder

Shikshanmaharshi Dr. Bapuji Salunkhe
D.Lit.

President

Hon. Chandrakant Dada Patil
Minister, Higher and Technical Education,
Gov. of Maharashtra

Chairman

Hon. Prin. Abhaykumar Salunkhe
MA

Secretary

Hon. Prin. Mrs. Shubhangi Gawade
M.Sc., B.Ed.

Principal

Dr. S. M. Maner
M.A., M.Phil., Ph.D.

Outward No. : DKASC / 490/24-25

Date: 11/1/2025

To,

Shri. Manohar Gopal Joshi,

Managing Director,

Kallappa Anna Awade Jawahar Shetkari

Karkhana Ltd., Hupari-Yalgud.

Subject: Request for Permission to Organize an Industrial Visit

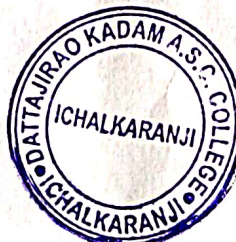
Respected Sir,


With reference to the above-mentioned subject, the Department of Chemistry intends to organize an industrial visit to your esteemed organization, **Kallappa Anna Awade Jawahar Shetkari Sahakari Karkhana Ltd., Hupari-Yalgud**, for B.Sc.-III students. The total number of B.Sc.-III students participating in this visit is 42 with 4 Faculties.

We kindly request your confirmation for the proposed visit date, **04/01/2025**, and seek your permission to conduct this educational activity for the students.

Looking forward to your positive response.

Thank you for your support and cooperation.




Dr. S. M. Maner
PRINCIPAL,
Dattajirao Kadam A. S. C. College,
Ichalkaranji.

Dissemination of Education for Knowledge, Science & Culture" – Shikshanmaharshi Dr. Bapuji Salunkhe
Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

**Dattajirao Kadam Arts, Science and Commerce College,
Ichalkaranji,
Department of Chemistry**

Date: 03-01-2025

Notice

All B.Sc.-III students are hereby informed that the Department of Chemistry is organizing an industrial visit to **Kallappa Anna Awade Jawahar Shetkari Sahakari Karkhana Ltd., Hupari-Yalgud** on 04/01/2025 at 10:30 a.m.

- ✓ Students are requested to assemble at the designated place on time.
- ✓ Please ensure you are dressed according to the college dress code and carry your college identity card.
- ✓ Punctuality, participation, and maintaining discipline during the visit are mandatory.

For further details, please contact the following faculty members.

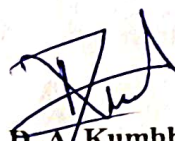
Mr. R. P. Bharsat: 8830563869

Dr. D. J. Sutar: 9975848722

Ms. P. V. Mane: 9552401906

Mr. S. R. More: 8483043148




(Dr. D. A. Kumbhar)
HEAD,

Department of Chemistry,
Dattajirao Kadam Arts, Science
& Commerce College,
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Looking forward to your positive response.

Thank you for your support and cooperation.

Kallappanna Awade Jawahar SSK Ltd, Hupari-Yalgud

20980 Dt. 21.1.2025

sent to H.R.

Authorized Signature

**Dr. S. M. Maner
PRINCIPAL,**

Dattajirao Kadam A. S. C. College,
Ichalkaranji.

To, G.M. Production 80

To En

03/24

Date:- 04/01/2025

Dissemination of Education for Knowledge, Science and Culture"
-Shikshan Maharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's
Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji

DEPARTMENT OF CHEMISTRY
Industrial Visit [B.Sc. III (Chemistry)] to
Kallapanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana., Ltd, Hupari

Sr. No.	Roll No.	Name of the Student	Sign
1	7016	Antin Basavraj Manjunath	Ab
2	7017	Awale Suyash Bhavso	Ab
3	7018	Balari Abhishek Vyankatesh	Ab
4	7019	Bhosale Rohan Satish	Ab
5	7020	Danane Paras Shital	BP
6	7021	Desai Khadija Jamir	Desai
7	7022	Jangate Supriya Suresh	Jangate
8	7023	Kamate Sanika Suresh	Kamate
9	7024	Kambale Poonam Kiran	Kambale
10	7025	Kamire Shreya Mahesh	Kamire
11	7026	Katankar Shahid Hazrat	Ab
12	7027	Khot Aakansha Joti	Aakansha
13	7028	Koli Sushant Pindu	Ab
14	7029	Kore Neha Manohar	Kore
15	7030	Kurane Anisha Rahul	APR
16	7031	Latane Abhishek Sanjay	Latane
17	7032	Malwade Ajay Ravikant	Ab
18	7033	Miraje Amruta Vishwanath	Ab
19	7034	Mirajkar Vijay Abasaheb	VAMirajkar
20	7035	Naik Samruddhi Mahesh	Naik
21	7036	Patil Suraj Shahaji	Ab
22	7037	Patil Vinayak Rajkumar	Ab
23	7038	Patil Yash Anil	Patil
24	7039	Patole Nikhil Yashwant	Patole
25	7040	Pujari Samruddhi Maruti	Ab
26	7041	Sagare Sanmati Sunil	Ab
27	7042	Sawant Tejas Sanjay	T.S.S



28	7043	Shikhare Rajvardhan Eknath	<i>[Signature]</i>
29	7044	Shinde Sakshi Arvind	Ab
30	7045	Shinge Komal Maruti	<i>[Signature]</i>
31	7046	Sutar Renuka Rajaram	<i>[Signature]</i>
32	7047	Teli Akshata Balu	<i>[Signature]</i>
33	7048	Nade Ankita Dhananjay	Ab
34	7091	Nadaf Tasnim Shahajan	<i>[Signature]</i>
35	7094	Hawaladar Dhiraj Tanaji	Ab
36	7096	Koli Karan Sunil	Ab
37	7098	Shinde Arati Ananda	<i>[Signature]</i>
38	7099	Giri Deepak Prakash	Ab
39	7001	Khot Prathmesh Prakash	Ab
40	7002	Heralage Prathmesh Balaso	Ab
41	7003	Danwade Mahmadiliyas Sameer	<i>[Signature]</i>
42	7004	Sutale Rajashree Mahadev	Ab

[Signature]
HEAD,

Department of Chemistry,
Dattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJI.



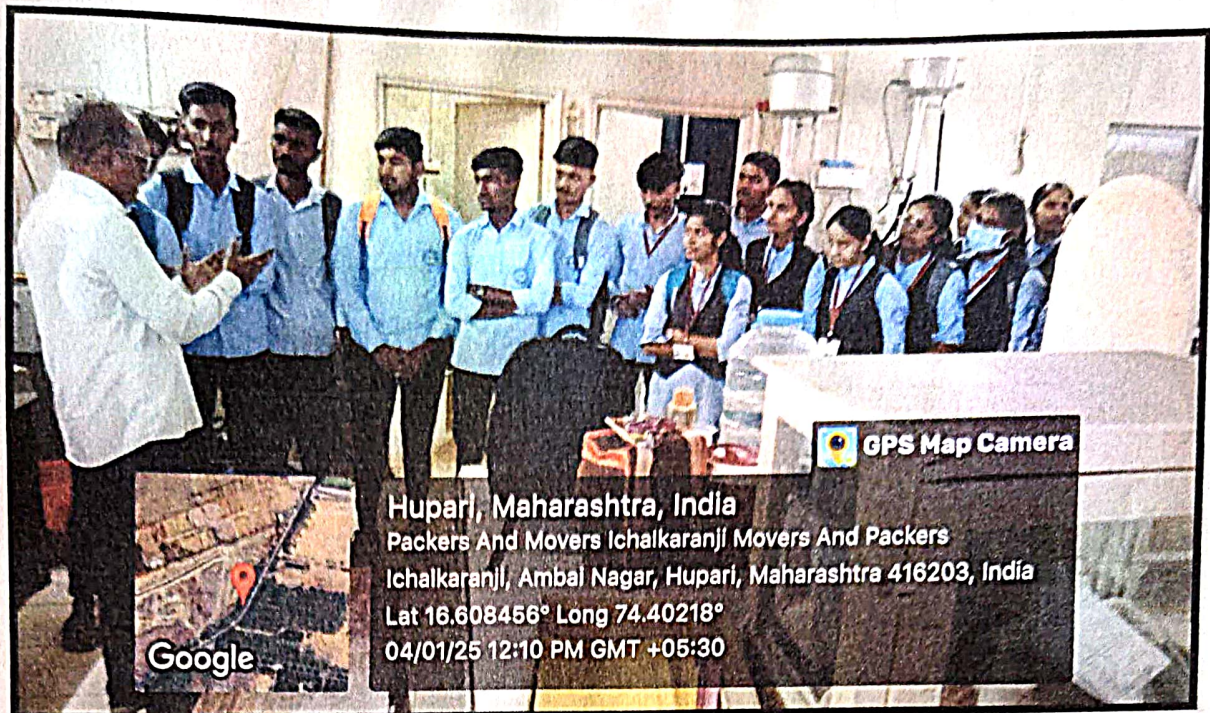
[Signature]
Principal,

D.K.A.S.C. College,
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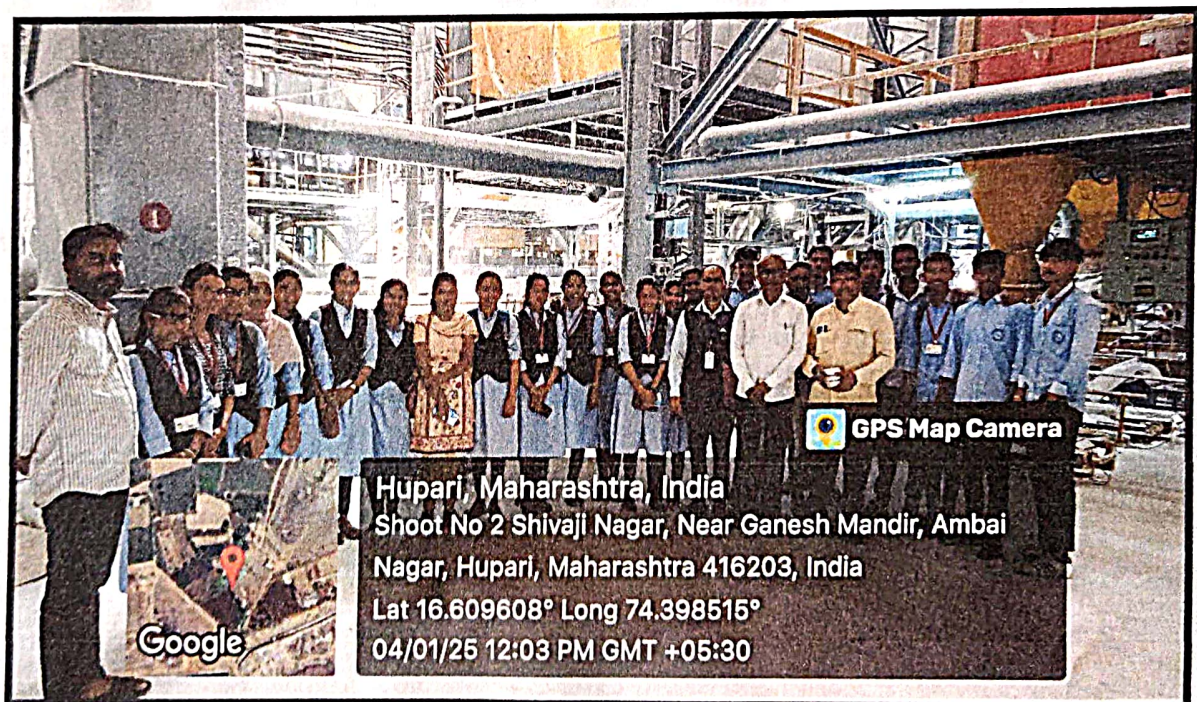
Date -05/01/2025

Organized "Industrial Visit"

Photos

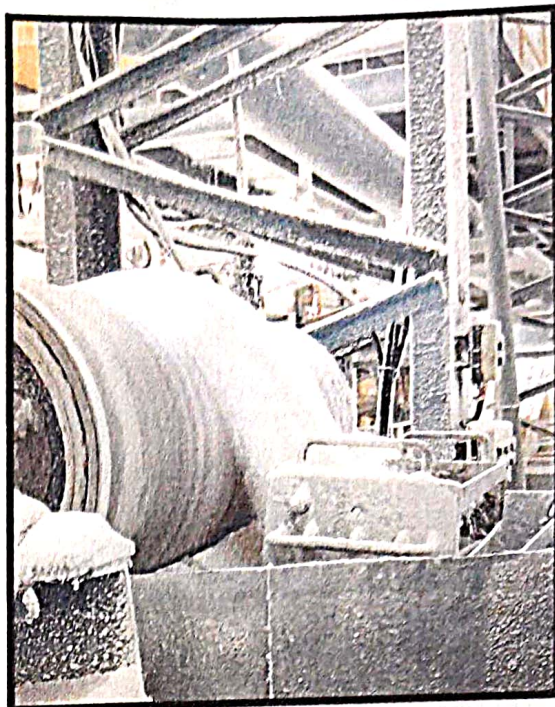


The member of the laboratory in charge Mr. Khade explained all the sugar tests in the sugar industry.



Visited to sugar packing department in industry.

Date -05/01/2025



The process of separation and gradation of sugar granules.



All B. Sc. III chemistry student participants with teaching staff of our department.

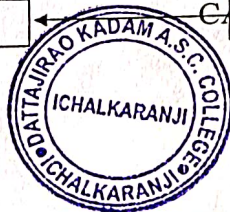
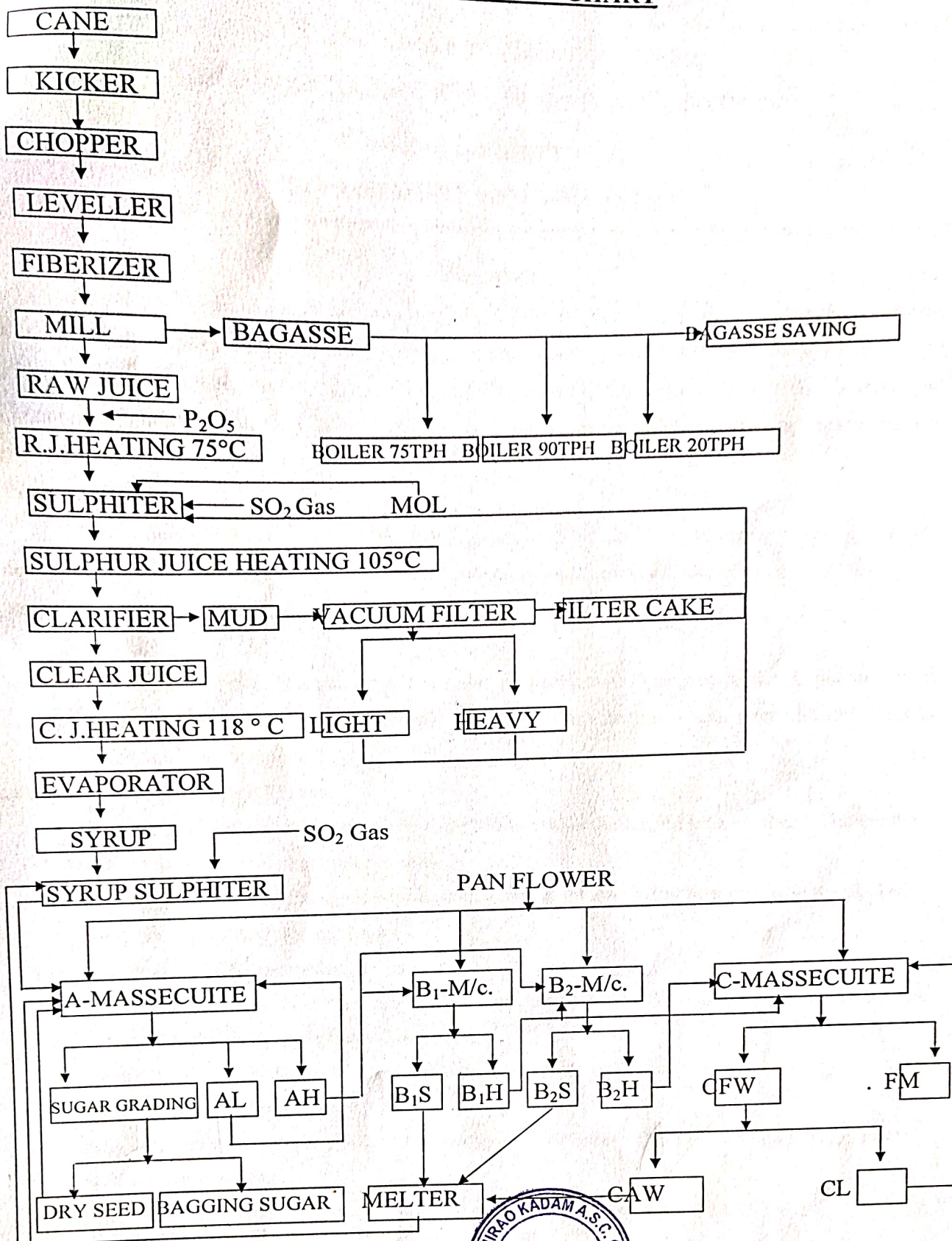
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PROCESS FLOW CHART



"Dissemination of Education for Knowledge, Science and Culture"

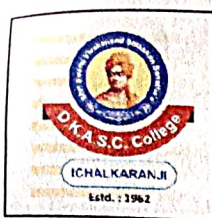
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College, Ichalkaranji.

DEPARTMENT OF CHEMISTRY



Report

As per the Board of Study in Chemistry, the Industrial Visit is mandatory for all the traditional ASC colleges. It gives immense informative to students who participated to "Industrial Visit" on 4th January, 2025. Organized by Department of Chemistry, Dattajirao Kadam Arts, Science and Commerce College Ichalkaranji. Were B.Sc. III chemistry students with faculty of our department was participated.

Purpose of Visit:

The primary objective of this visit was to understand the manufacturing process, evaluate operational efficiency, observe quality control procedures and examine the challenges faced by the sugar industry.

Raw Material

- **Sugarcane Supply:** Raw material for sugar production is sugarcane, which is sourced from local farmers in the surrounding areas. The factory has contracts with over of local farmers, ensuring a steady supply.

Crushing and Extraction Process

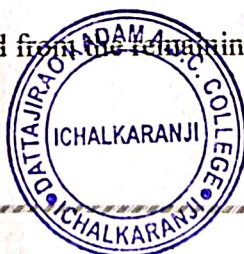
- The sugarcane washed to remove any impurities before being fed into crushers. The crushers extract the juice, which contains sucrose.
- **Pressing & Milling:** The cane is processed through a series of rollers or mills, which further crush the cane to extract maximum juice.

Juice Clarification & Evaporation

- The juice extracted from the cane is then subjected to clarification, where impurities are removed using lime or phosphoric acid.
- Addition of lime, sulphur to maintain the pH and free from bacteria.

Crystallization and Centrifugation

- The concentrated syrup is cooled to promote crystallization. The sugar crystals begin to form as the syrup solidifies.
- These crystals are then separated from the remaining molasses using centrifuges.



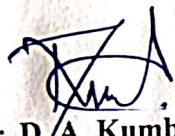
Refining and Packaging

- The raw sugar is refined further to remove any remaining impurities, resulting in white, granulated sugar.
- The final product is then packaged in various sizes for distribution to wholesalers, retailers, and food manufacturers.


Quality Control Measures

- The quality control department ensures that every batch of sugar meets the desired specifications. This involves rigorous testing for moisture content, color, grain size, and purity.
- Regular inspections are carried out at various stages of production to ensure the product meets both national and international standards.

The sugar industry plays a crucial role in the economy, providing employment opportunities and contributing significantly to the agricultural sector. During the visit, we had the opportunity to meet with plant managers, engineers, and operational staff, who provided insights into various aspects of sugar production, from raw material procurement to final product distribution. The visit to the sugar industry provided valuable insights into the complexities of sugar production.


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