

S.G.V.C VIDYA PRASARK TRUST'S

**M.G.V.C.ARTS, COMMERCE AND SCIENCE COLLEGE
MUDDEBIHAL**

DEPARTMENT OF CHEMISTRY

**Visit: Shri Balaji Sugars And chemicals
Pvt Ltd Yaragal**

TALUK: MUDDEBIHAL

DIST: VIJAYAPUR



DATE:23.08.2023

TIME:10.30AM

S.G.V.C VIDYA PRASARK TRUST'S

**M.G.V.C.ARTS, COMMERCE AND SCIENCE COLLEGE
MUDDEBIHAL**

DEPARTMENT OF CHEMISTRY

Examination Seat No: 5203676 Class: B.Sc VI Sem

*This is to certify that, Mr/Mrs Sneha Kuri
Has satisfactorily completed Visit at
Shri. Balaji Sugars & Chemicals Pvt Ltd. Yaragal 23.08.2023, under our
supervision in M.G.V.C Arts, Commerce and Science College
Muddebihal.*


Staff Member incharge


Head Department of Chemistry
Head, Dept. of Chemistry,
M.G.V.C. Arts, Com. & Science College,
MUDDEBIHAL - 586212.

INDUSTRIAL VISIT

SHRI BALAJI SUGARS AND CHEMICALS PVT LTD YARAGAL

DATE : 23rd August 2023
CLASS: B.Sc- VI Semester Chemistry optional students.
TOTAL STUDENTS : 37
EVENT : Industrial Tour

Faculty Members:

- 1) Prof. C. S. Katageri Head Department of Chemistry.
- 2) Prof. A. S. Bagawan. Organizer of Industrial Visit.
- 3) Prof. U. A. Halyal. Organizer of Industrial Visit.
- 4) Shri. M. I. Nayak Chemistry Lab Assistant

EVENT DESCRIPTION:

An industrial visit has been organized by department of Chemistry for B.Sc-VI Semester Chemistry optional students. on 23 August 2023. The main objective of the visit was to provide a technical exposure to the students about the manufacturing process and technology of sugar. A total of 37 B.Sc-VI Semester students along with 3 staff members and one lab assistant were visited the Shri Balaji Sugars and Chemicals Private Limited Yaragal.

SESSION ACTIVITIES:

The students were accompanied by 3+1 faculty members. The students were started from our college at 10:30 AM on 23rd August 2023 and reached Shri Balaji Sugars and Chemicals Private Limited Yaragal at 11:00 AM

EFFECTIVE VISIT:

Students visited Shri Balaji Sugars and Chemicals Private Limited Yaragal and learnt about the following :

Cane Carrier:

This is used to transport cane to the milling tandem and consists of chains and slats. Its width is normally equal to the mill size. Mill cane-crushing unit having normally consisting of three rollers in a heavy steel housing. Cane first passes between the top and front rollers, then between the top and back rollers, to extract the juice. Cane Crushing unit, preceding the first mill to crush the cane prior to extraction of juice, for the purpose of improving the quantity of juice extracted. Normally consists of two rollers. Shredder has the same purpose as the crusher, but a different principle. Consists of a drum, with a concentric shaft, on which hammers are mounted on arms.

Mill Tandem:

A complete mill is complex, consisting of crusher (or shredder) and all mills, together with drives and reducing gears.

Cane Knives:

These are mounted on cane carriers prior to entrance to mills, for preventing entire cane stalks from entering the mills, straightening and precutting the cane, for the purpose of improving juice extraction and saving driving power at the same time.

Intermediate Carriers:

These transport the milled cane (bagasse) from one mill to the next. Baggage Carrier, this carries the bagasse from the last mill to the boilers, and its excess to storage.

Power Plant:

This produces electricity by means of non-condensing steam turbines, which drive generators. For the off-season diesel-driven generators are mainly used, to produce a limited quantity of electricity.

Juice Heater:

A heat exchanger in which juice is heated by using steam as a medium, normally a multi-pass system. Juice flows through tubes, while steam passes along the outside of the tubes, in the cylindrical body. They can be used horizontally as well as vertically.

Clarifier:

It is a large vertical cylindrical tank, where juice is given time for decantation, to separate the clear juice from the turbid, which still contains the mud. Juice flow is continuous.

Evaporator:

A series of vessels, in which excess water from the juice is evaporated to form a more concentrated liquid, now called syrup. The vessels work in series under increasing vacuum conditions, to reduce the boiling temperature gradually as the concentration increases step-wise. This prevents overheating of juice and loss of sucrose. The vessels together form a triple-, quadruple- or quintuple-effect evaporator.

Vacuum Pan:

Like an evaporator vessel, a continuation of the evaporating process, but carried so far that crystallization occurs. Also boils under vacuum for reduced boiling temperature. The syrup is now transformed into massecuite (fill mass-strike-skipping), which is a mixture of grain (crystals) and mother liquor (molasses).

Crystallizer:

A strike receiver in which the charge from the vacuum pan is stored before going to the centrifugals. Its purpose is cooling, to increase grain size and reduce sucrose left in molasses.

Dryer:

A long drum-like rotating cylinder, where sugar is brought in contact with heated air, to reduce its moisture content.

Cooler:

Same as a dryer, but air is dry and cooled to reduce temperature of sugar, heated by the dryer. This is to prevent caking during storage. The combination of dryer and cooler into one body is often called a Granulator.

The below picture had been taken during the visit. All over India KCP has manufacturing and marketing of Rectified Spirit, Extra Neutral Alcohol, Ethanol, Incidental Cogeneration of Power, Organic Manure, Mycorrhiza Vam, Calcium Lactate and CO₂. Company has two sugar factories located in Krishna District Andhra Pradesh having an aggregate crushing capacity of 11,500 tons per day.



ABOUT SHRI BALAJI SUGARS AND CHEMICALS PVT. LTD. YARAGAL.

Shri Balaji Sugars & Chemicals Pvt. Ltd. (SBSCPL) is a Private Limited Company registered in the State of Karnataka under the Companies Act, 1956. on April 1, 2011 four certificate of incorporation,number,U15425KA2011PTC057947.

The Company is promoted by Mr. Venkatesh Patil who along with other promoters sensed the great availability of sugarcane in the region of Muddebihal taluka and increasing demand of power & ethanol and keeping in view,the needs of the local farmer,those cultivate sugarcane in the command area.

SBSCPL had set up an integrated new sugar mill of 3500 TCD, & 18 MW capacity cogen power project for decentralized generation of exportable surplus power, mainly from renewable sources of fuel,factory located near Village Yaragal-Madari, Taluka Muddebihal,Dist.Bijapur, Karnataka.SBSCPL has undertaken 1st trial in March 2015.A dedicated project team of SBSCPL,along with appointed experts and consultants have successfully commissioned sugar & cogen power project within 16-17 months. SBSCPL,now proposes to set up a 60 KLPD capacity distillery to produce ethanol,adjucent to the existing sugar plant located at Village Yaragal-Madari,Taluka,Muddebihal,Dist.Vijapur,Karnataka.

The proposed distillery project will produce ethanol from molasses as raw material. The steam and power requirement for the proposed plant will be made available from the new slop fired incineration boiler & back pressure turbine. SBSCPL has already obtained IEM from The Ministry of Commerce & Industry, Govt. of India for sugar, power & ethanol projects vide IEM NO.3706/SIA/IMO/2011 dated 15/12/2011.SBSCPL has already applied for obtaining approval,from,KSPCB,and,completed,public,hearing,for,the same.

The promoters also have acknowledged in depth, the socio-economic and environmental value addition of the captioned project to the local populate, region, State and the Country, as well as its win-win situation to all the stakeholders involved.

PHOTO GALLERY



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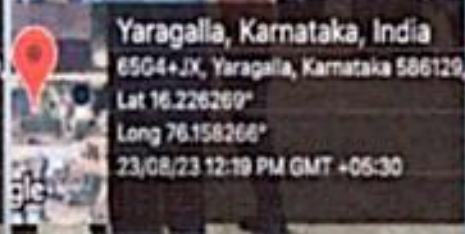
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65G4+JX, Yaragalla, Karnataka 586129

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Long 76.158266°

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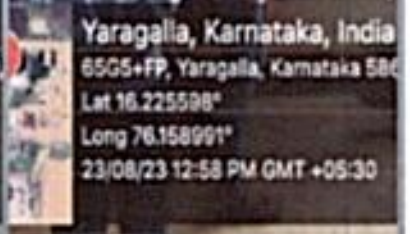
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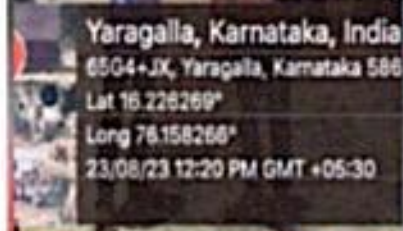
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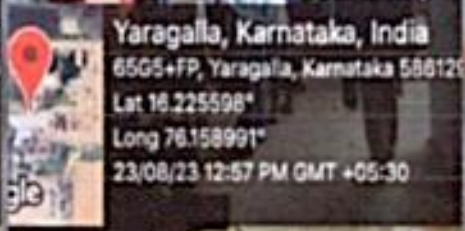
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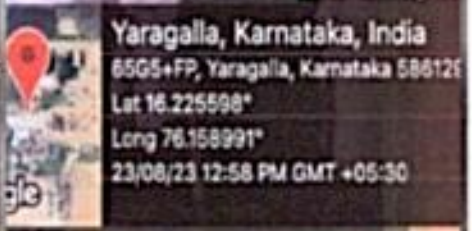
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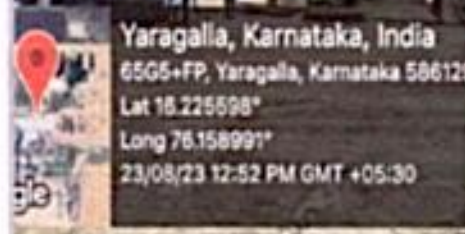
Yaragalla, Karnataka, India

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Lat 16.225598°

Long 76.158991°

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Yaragalla, Karnataka, India

65G5+FP, Yaragalla, Karnataka 586129

Lat 16.225598°

Long 76.158991°

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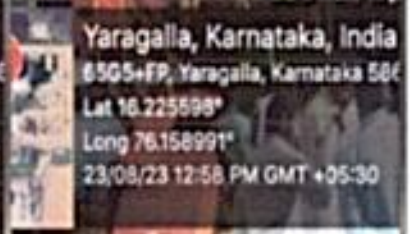
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Long 76.168773°

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Yaragalla, Karnataka, India

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Lat 16.225598°

Long 76.158991°

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**M.G.V.C ART'S, COMMERCE AND SCIENCE COLLEGE,
MUDDEBIHAL-586212**

DEPARTMENT OF CHEMISTRY

INDUTRIAL VISIT REPORT SUBMISSION

Class: B.Sc.-VI Semester

Date: 23/08/2023

Sl. No.	Reg. No.	Student Name	Signature
1	S2031607	ANAND SANGAPPA HOKRANI	A.S. Hokrani
2	S2031609	ANIL RAMACHANDRA CHALAWADI	Chalawadi
3	S2031612	ARUN HIREMATH	Arun
4	S2031616	BHAGYASHRI NINGANNA TALAWAR	B.Talawar
5	S2031617	BIBHAJARA SHIRGUMPI	B.Shirgumpi
6	S2031620	KARABASAPPA ANGADI	K.Angadi
7	S2031621	KARTIK	Kartik
8	S2031622	KARTIK JAGADISH KANCHYANI	K.J.Kanchyani
9	S2031624	KEERTI LAXMAN BASARKOD	K.L.Basarkod
10	S2031625	KOUSARBANU LALSAHEB MAKASHI	K.L.Makashi
11	S2031626	KUSUMA METI	K.Meti
12	S2031630	MALLIKARJUN S BIRADAR	M.Biradar
13	S2031631	MINAJ BANDAGISAHEB KULAGERI	M.Kulageri
14	S2031632	MOHAMMADMUZAMMIL SAGAR	M.Sagar
15	S2031636	NAGARATNA	N.Ratna
16	S2031637	NAIDA MAHAMMAD ILIYAS SUTAR	N.A.Sutar
17	S2031638	NASEEMA BAGAWAN	N.Bagawan
18	S2031645	PAVITRA BABU BOGAR	P.B.Bogar
19	S2031646	PAVITRA CHANDRASHEKHAR BIRADAR	P.C.Biradar
20	S2031648	POORNIMA N CHITTARAGI	P.N.Chittaragi
21	S2031649	PRAJWAL PRAKASH MADIWALAR	P.P.Madiwal
22	S2031650	PRASHANT NARAYANAPPA BIRADAR	P.N.Biradar
23	S2031651	PRIYANKA MAHANTESH KALABURGI	P.Kalaburgi
24	S2031652	PRIYANKA NEELAKANTH HIRUR	P.N.Hirur
25	S2031654	RAHUL LAXMAN CHAVHAN	R.L.Chavhan
26	S2031655	RAKSHITKUMAR	R.Kumar
27	S2031662	SAMEEKSHA SHASTRI	S.Shastri
28	S2031664	SANGAMMA MATH	S.M.Math
29	S2031666	SANTOSH NAVACHAKRA	S.Navachakra
30	S2031667	SAVITA BIRADAR	S.Biradar
31	S2031669	SHAMAPARAVEEN B MUDEBIHAL	S.B.Muddebihal
32	S2031670	SHARAD RATNAJI KADAM	S.R.Kadam
33	S2031672	SHOBHA SIDDANNA PEERAPUR	S.Peerapur
34	S2031676	SNEHA KURI	S.N.Kuri
35	S2031677	SNEHA SIDDAPPA HOLI	S.S.Holi

(Visit Incharge)
A.S. Bagawan

(Signature)
Head, Dept. of Chemistry,
M.G.V.C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

36	S2031678	SOMANAGOUD MANOHAR PATIL	<i>Patil</i>
37	S2031679	SOUBHAGYA S TELAGINAMANI	<i>SUT</i>
38	S2031680	SOUKHYA SAJJAN	<i>Sajjan</i>
39	S2031681	SUKANYA VITHTHAL ZALAKI	<i>Zalaki</i>
40	S2031683	SUNITA	
41	S2031685	SWATI AMARESH HEBBAL	<i>S.A.H</i>
42	S2031687	TANVEERAHMMAD HONYAL	<i>T.V. Honyal</i>
43	S2031689	TEJASHWINI GANGAYYA HIREMATH	<i>Hiremath</i>