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

DEPARTMENT OF BOTANY

VISIT TO BIOTECHNOLOGY LABORATOA

AT

HORTICULTURAL UNIVERSITY OF HORTICULTURAL SCIENCE BAGALKOT



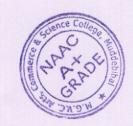
BY

B.Sc FIFTH SEMESTER BOTANY STUDENTS

YEAR 2023-24

PRINCIPAL,

1.G.V.C. Arts, Commerce & Science College MUDDEBIHAL-586212. Dist: Vijayapur.



To

The Principal

M.G.V.C. College

Muddebihal

Requesting to give permission to visit Biotechnology Laboratory at College of Horticulture University of Horticultural Science Bagalkot, Botany staff members along with B.Sc Fifth Semester students.

Kindly give permission to visit Biotechnology Laboratory.

Students List

Sr.No	Name of the Students	
1	Yasmin Badeghar	
2	Bhagyalaxmi.Kashetti	8
3	Danamma.Hiremath	
4	Nisrga.Patil	
5	Aishwarya.Patil	
6	Anusha.Dodamani	
7	Vandana.Rathod	
8	Lalita.Beli	
9	Kvya.Nalatwad	
10	Ningamma.Kalari	
11	Pooja.Kumbar	
12	Ramangouda.	*
13	Akshyakumar	
14	Vinayak.P	

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

To

Dr.Balaji.S.Kulkarni

Dean

College of Horticulture

University of Horticultural Science Bagalkot

Subject: Requesting to give permission to visit Biotechnology Laboratory at College of Horticulture University of Horticultural Science Bagalkot, Botany staff members along with B.Sc Fifth Semester students.

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8	Lalita.Beli	
9	Kvya.Nalatwad	
10	Ningamma.Kalari	
11	Pooja.Kumbar	
12	Ramangouda.	Table 2



Akshyakumar	1
Vinayak.P	1
Rafeek.B	1
Ramesh.H	V
Prajwal.M	No.
Siddanagouda	1
Samarth Patil	1
Arifa.H	-
Saba Alam Dakhani	-
Aisha. Tumbagi	1
Botany Staff Members	1
Prof: S.V.Gurumath	1
Prof.B.N.Chawdapur	1
Prof.Laxmi.Arjunagi	1
Sri: M.D.Pattar	1
	Vinayak.P Rafeek.B Ramesh.H Prajwal.M Siddanagouda Samarth Patil Arifa.H Saba Alam Dakhani Aisha. Tumbagi Botany Staff Members Prof. S.V.Gurumath Prof.B.N.Chawdapur Prof.Laxmi.Arjunagi

Place: Muddebihal

Date: 07.01.2023

PRINCIPAL,
M.G.V.C. Arts, Commerce & Science College
MUDDEBIHAL-586212. Dist: Vijayapur.

15	Rafeek.B
16	Ramesh.H
17	Prajwal.M
18	Siddanagouda
19	Samarth Patil
20	Arifa.H
21	Saba Alam Dakhani
22	Aisha. Tumbagi
	Botany Staff Members
1	Prof: S.V.Gurumath
2	Prof.B.N.Chawdapur
3	Prof.Laxmi.Arjunagi
3	Sri: M.D.Pattar



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

DEPARTMENT OF BOTANY

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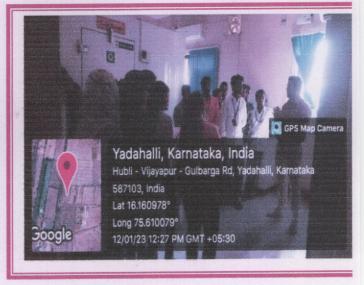
AT

HORTICULTURAL UNIVERSITY OF HORTICULTURAL SCIENCE BAGALKOT









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

DEPARTMENT OF BOTANY

VISIT TO BIOTECHNOLOGY LABORATOARY

AT

HORTICULTURAL UNIVERSITY OF HORTICULTURAL SCIENCE BAGALKOT











M.G.V.C.ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL DEPARTMENT OF BOTANY

VISIT TO BIOTECHNOLOGY LABORATOARY

AT

HORTICULTURAL UNIVERSITY OF HORTICULTURAL SCIENCE BAGALKOT

REPORT

The department of Botany conducted one day visit to Biotechnology Laboratory at College of Horticulture University of Horticultural Science Bagalkot, on 12.01.2023, B.Sc Fifth semester students along with Botany staff members visit to Biotechnology Laboratory. Ranni Channamma University Belgavi recommended in Fifth semester syllabus in Botany paper- I Visit to Biotechnology Research Laboratory. Students visit the Museum and Cultural hall in Navanagar Bagalkot.In the evening students enjoying Musical Fountain and Laser show in Almatti dam.

HOD of Botany

M.G.V.C. Arts, Commerce & Science College MUDDEBIHAL-586212. Dist: Vijayapur. S.G.V.C VIDYA PRASARK TRUST'S
M. G.V.C. ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

DEPARTMENT OF BOTANY

VISIT: VERMICOMPOST SITE AT

SHRI: MUTTUBASU.NIDAGUNDI TANGADAGI

TALUK: MUDDEBIHAL DIST: VIJAYAPUR



DATE: 24.06.2023 TIME: 10.30 AM





To

The Principal

M.G.V.C. College

Muddebihal

Requesting to give permission to visit Vermicompost plant at Tangadagi, Botany staff members along with B.Sc Sixth Semester students.

Kindly give permission to visit Vermicompost plant.

Students List

Sr.No	Name of the Students
1	Yasmin Badeghar
2	Bhagyalaxmi.Kashetti
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5	Anusha.Dodamani
6	Vandana.Rathod
7	Lalita.Beli
8	Kvya,Nalatwad
9	Ningamma.Kalari
10	Ramangouda.
11	Akshyakumar.Patil
12	Vinayak.P
13	Rafeek.B
14	Ramesh.Hampangoudar
15	Prajwal.M
16	Siddanagouda
17	Samarth Patil





	1031 30
18	Arifa.H .
19	Saba Alam Dakhani
20	Aisha. Tumbagi
21	Yalagudarappa.Kodaganur
	Botany Staff Members
1	Prof.B.N.Chawdapur
2	Prof.Laxmi.Arjunagi
3	Sri: M.D.Pattar

M.G.V.C.ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBHIAL

To

Sri.Muttubasu.Nidagundi,

Tangadagi

Subject: Requesting to give permission to visit Vermicompost plant at Tangadagi, Botany staff members along with B.Sc Sixth Semester students.

Kindly give permission to visit Vermicompost plant.

Students List

Sr.No	Name of the Students
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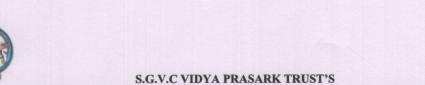
15	Prajwal.M .
16	Siddanagouda
17	Samarth Patil
18	Arifa.H
19	Saba Alam Dakhani
20	Aisha. Tumbagi
21	Yalagudarappa.Kodaganur
	Botany Staff Members
1	Prof.B.N.Chawdapur
2	Prof.Laxmi.Arjunagi
3	Sri: M.D.Pattar

Place: Muddebihal

Date: 24.06.2023

M. G. V. C. Arts, Com. & Science College
MUDDEBIHAL - 586212.

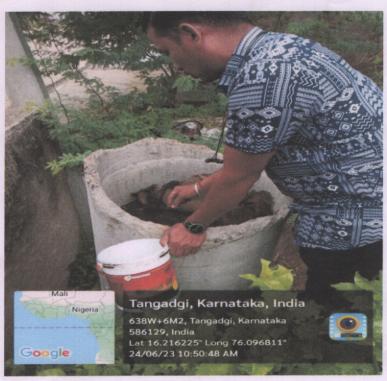




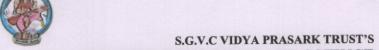


M. G.V.C. ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL











M. G.V.C. ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL VISIT: VERMICOMPOST SITE AT TANGADAGI









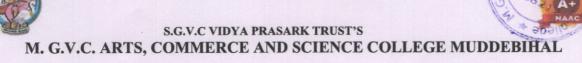
M. G.V.C. ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

VISIT: VERMICOMPOST SITE AT TANGADAGI





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DEPARTMENT OF BOTANYVISIT: VERMICOMPOST SITE

VERMICOMPOST

This process is called vermicomposting, with the rearing of worms for this purpose is called vermiculture. Vermicast (also called worm castings, worm humus, worm poop, worm manure, or worm faeces) is the end-product of the breakdown of organic matter by earthworms.

The nutrients content in vermicompost vary depending on the waste materials that are being used for compost preparation. If the waste materials are heterogeneous one, there will be wide range of nutrients available in the compost. If the waste materials are homogenous one, there will be only certain nutrients are available.

This type of compost requires heat, generated by the bacteria, and time to cool down and cure, which can take six months or more. In vermicomposting, a smaller, shallow, dark bin with ventilation contains worms living in cool, moist bedding material.





S.G.V.C VIDYA PRASARK TRUST'S M. G.V.C. ARTS, COMMERCE AND SCIENCE COLLEGE MUDDEBIHAL

DEPARTMENT OF BOTANY

VISIT: VERMICOMPOST SITE

REPORT

Visit to Shri.Muttubasu Nidagundi at Tangadagi for the study of Vermicomposting to understand role of Earthworms, Rani Channamma University Belgavi is recommended in syllabus for B.Sc VI sem, Botany staff members along with B.Sc Sixth Semester students on 24.06.2023 at 10.30 am. Prof.B.N.Chawadapur, Prof. Laxmi.Arjunagi, Shri.M.D.Pattar and B.Sc VIth Semester students.

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Head of the Opport Botany Botany
M.G.V.C. College, MUDDEBIHAL-586213
Dist; Bijapus

Principal

M. G. V. C. Arts, Com. & Science College MUDDEBIHAL - 586212,

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

DEPARTMENT OF CHEMISTRY

Visit: Shri Balaji Sugars And chemicals Pvt Ltd Yaragal Commerce of MUDDEBIHAL SCIENT SAGES 12 SCIENT

TALUK: MUDDEBIHAL

DIST: VIJAYAPUR



DATE:23.08.2023

PRINCIPAL,

TIME:10.30AM

M. G. V. C. Arts, Com. & Science College MUDDEBIHAL - 586212,

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

DEPARTMENT OF CHEMISTRY

Examination Seat No:

Class: B.Sc VI Sem

This is to certify that, Mr/Mrs Maddikation, 9. Battalan.

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 Muddehihal.

Staff Member incharge

Head Department of Chemistrty

M.G.V.C. Arts, Com. & Science College MUDDEBIHAL - 586212.

PRINCIPAL,

M. G. V. C. Arts, Com. & Science College

MUDDEBIHAL - 586212,

Mass er- "

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:

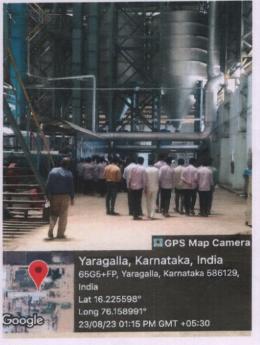
A long drum-like rotating cylinder, where sugar is brought in contact with heated air, to reduce its moisture content.

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 Andra Pradesh having an aggregate crushing capacity of 11,500 tons per day.





ABOUT SHRI BALAJI SUGARS AND CHEMICALS PVT. LTD. YARAGA

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.

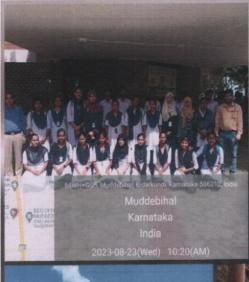
The Company is promoted by Mr. Venkatesh Patil who along with other promoters sensed the great availability of sugarcane in the region of Muddebihal taluka and increasing demand of power & ethanol and keeping in view, the needs of the local farmer, those cultivate sugarcane in the command area.

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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PRINCIPAL,

M. G. V. C. Arts, Com. & Science College MUDDEBIHAL - 586212,



MUDDEBIHAL - DOUZIA