

S.R.R. & C.V.R. Government Degree College (A)

An Autonomous & ISO 9001: 2015 Certified Institution:: Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019 NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March, 2017

Machavaram, Vijayawada, Krishna District, AP-520 004

KCP INDUSTRIAL VISIT AUGUST 2017



DEPARTMENT OF BOTANY

SRR & CVR Government Degree College

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Machavaram, Vijayawada, Krishna District, AP-520 004



DEPARTMENT OF BOTANY

Dates	August 2017
Conducted through (DRC/JKC/ELF/NCC/NSS/ Departments etc.	Department
Nature of activity (seminar/Workshop/Extn. Lecture etc.	Industrial visit
Title of the Activity	Industrial Visit
Name of the Department/Committee	Department of Botany
Details of Resource Persons (Name , Designation etc.,)	KSP Sugar Factory , Vuyyuru Staff
No of students participated	40
Name of the Lecturers who planned & conducted the activity	Planned and Organized by Ms M.Sravanavalli Lecturer In Charge Mrs D. Jyothi , Lecturer in Botany
Remarks	This Industrial tour has given onsite field experience to students

Department of Botany SRR & CVR Govt Degree College Organized a Industrial tour to KSP Sugar Factory , Vuyyuru Krishna District in August 2017.

Motive of this program:

This tour Provided students Onsite, practical and real time experience , real time cases . Creating awareness on the processes that regularly happen in sugar factories.

Relevant Information related to this :

Sugar is a broad term applied to a large number of carbohydrates present in many plants and characterized by a more or less sweet taste. The primary sugar, glucose, is a product of photosynthesis and occurs in all green plants. In most plants, the sugars occur as a mixture that cannot readily be separated into the components. In the sap of some plants, the sugar mixtures are condensed into syrup. Juices of sugarcane (*Saccharum officinarum*) and sugar beet (*Beta vulgaris*) are rich in pure sucrose, although beet sugar is generally much less sweet than cane sugar. These two sugar crops are the main sources of commercial sucrose.

Sugar cane must be crushed to extract the juice. The crushing process must break up the hard nodes of the cane and flatten the stems. The juice is collected, filtered and sometimes treated and then boiled to drive off the excess water. The dried cane residue (bagasse) is often used as fuel for this process.

Sugar Processing consists of Harvesting, Washing and initial preparation ,Juice extraction , Purification of juice , Crystallization, Centrifugation , Drying and Packaging

Industrial Visit

K.G.P. Sugar factory - Vayyur. K. Dt.

August 2017



The students and faculty have visited KPC-sugar industry. The students have observed sugar manufacturing processes and fermentation of Molasses and preparation of manure from the residue.

Faculty members : 1. Ms. M. SRAYANA VALLI
2. Smt. D. JYOTHI.

Industrial Visit

Tour Report :

Students observed the processing of sugars in the factory stagewise . They observed the fermentation of molasses and the preparation of Bio Manure from molasses .

Molasses from both sugarcane and sugar beets are a major component of animal feed . Sugar beet molasses that has been subjected to desugarization contains reduced carbohydrate levels and may be blended with cane molasses.

Sugarcane pressmud is the solid residue produced after filtration of sugarcane juice. The purification process separates the juice into a clear juice that rises to the top and goes for manufacture of sugar, and a mud that collects at the bottom. It is a good source of fertilizer. Sugar mills in India produce about 12 million tons of pressmud (filter cake) as a waste from double sulphitation processes.

Molasses is used as a microbiological energy source in a wide range of fermentation processes. It is used to grow yeasts, molds and bacteria which transform sugars into alcohol, yeast, citric acid and the food additives monosodium glutamate and lysine.

Students experienced an onsite field experience. Industry staff explained to students about all the stages and processes happening in the Sugar Industry . The tour was very informative and beneficial to Botany students .

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DEPARTMENT OF BOTANY



STUDENT SIGNATURES AND FEEDBACK

S.No	Date	Class	Roll no/ Reg no	Signature	Remarks
1.		I B B C	21317207	K. Mani	Got awareness
2.		II B B C	21317201	A. P. Sathish	Useful
3.		II B B C	21317209	T. Lavanya	Good.
4.		II B B C	21317205	K. Jagadeesh	Good.
5.		II B B C	21317206	T. M. Sudula	Useful
6.		II B B C	21317212	A. K. P. S.	Good.
7.		II B B C	21317204	Dev. Jagadeesh	Got awareness
8.		III B.2.C	20311215	N. Mounika	Useful.
9.		III B.2.C	20311223	Shaik Baji Baba Vali	Good
10.		III B.2.C	20311003	G. Rupa Vali	Useful
11.		III B.2.C	20311008	P. K.	Good
12.		III B.2.C	20311216	P. S.	Awareness.
13.		III B.2.C	20311227	G.	Good
14.		III B.2.C	20311213	M. Gayatri	Good.
15.		III B.2.C	20311210	M. V. S.	Good.
16.		III B.2.C	20311220	P. Lochansai	Awareness





STUDENT SIGNATURES AND FEEDBACK

S.No	Date	Class	Roll no/ Reg no	Signature	Remarks
1	28/8/17	II B2C	163174034	K. Sai prasad	Got awareness
02	28/8/17	II B2C	163174035	Sailaja	Good.
03	28/8/17	II B2C	163174036	Naga Sate.	useful
04	28/8/17	II B2C	163174026	Nurgapraha	Good.
5	28/8/17	II B2C	163174022	Prasanna	useful.
6	28/8/17	II B2C	163174037	Naga Ragu	Good.
7	28/8/17	II B2C	163174025	Madhu	useful
8	28/8/17	II B2C	163174026	Jyothi	useful.
9	28/8/17	II B2C	163174024	Ravi	Good
10	28/8/17	II B2C	163174023	Prasanna	Good.
11	28/8/17	II B2C	163174027	Deepu	Good.
12	28/8/17	II B2C	163174028	Shamprakash	useful
13	28/8/17	II B2C	163174040	Seetha	Good.
14	28/8/17	II B2C	163174042	Abdullah	useful.
15	28/8/17	II B2C	163174043	Nareddy	Good.
16	28/8/17	II B2C	163174045	Gopi	Good.

