



# ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC  
Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533 437, E.G. Dist., Ph: 99631 76662

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### A Report on Industrial Visit to Sri Sarvaraya Sugars Limited (Bottling unit)

#### Soft Drinks Manufacturing

Soft drinks manufacture is a competitive business. Manufacturing techniques are continually improved. This helps to meet the highest quality standards for its products using the cost effective production techniques.

#### Sri Sarvaraya Sugars Limited (Bottling unit)

\*Name of the Industry :- Sri Sarvaraya Sugars Limited

Total area of Industry - 47 acres

Production processing - Soft drinks

#### Details of staff

Managers - 6

Engineers - 3

Asst. Engineers - 9

Supervisors - 25

Operators & works - 300

#### Details of Raw material used

- Name of the raw material: Essence (imported from US)
- Amount of the raw material per day: 60 units
- Number of soft drink bottles produced per day: 70,000
- Waste water treatment: ETP (Efficient treatment plant)
- Electric generator details: 2 (650 kv, 750 kv)
- Used material for boilers: Furniture oil.

#### Different Steps involved in the preparation of soft - drinks

\* Uncasing of bottles:

The empty bottles collected from different areas are taken and uncased.

**\* Testing for breakage:**

Pre-inspection of bottles by focussing to light for breaks.

**\* cleaning:**

Then the bottles are well cleaned with Castic Soda, chlorine water and finally with water and then again inspected for breaks.

**\* Preparation of Simple Syrup:**

Water is added to sugar and heated to prepare simple syrup. The simple Syrup is passed through no. of filters to make sure that it is absolutely pure.

\* Then Essence is mixed to simple syrup to prepare soft drink.

\* Carbon dioxide is used to make the soft drinks fizzy. So Carbon dioxide is piped into the bottles through a carbonator and cooler.

**\* Filling of the Bottles**

Filling the bottles with soft drink. The packaging and the finished drink combined by rapid filling process Every minute, hundreds of cans pass along an automated production line and filled with precise amount of soft drinks.

**\* Inspection of Filled bottles:**

At the end again filled bottles are they inspected to make Sure that they are Smooth and do not have any gaps or leaks.

**\* Caping: -**

The bottles are filled with Soft drink and then sealed with caps mechanically.

**\* Printing of date & Batch number on bottles:**

An individual code is stamped on each can so that each one can be traced back to the point and time of production. A data code ensures product freshness. The cans now look like those we will see in the shops.

**BOTTLING UNIT**

In the same industry, there is another unit called bottling unit. Bottles are prepared for soda water filling.

**\* Preparation of PET (Poly ethylene teraphthalate) bottles:**

Pre unit of PET bottles looks like a test tube with different sizes and colours which are imported from Hyderabad and these bottles are blown up in the presence of IR light and air to the required shape in the moulds. Then these bottles are filled with soda water and then are labelled as "KINLEY"

K N K Reddy  
Head of the Department  
Electrical & Electronics Engineering  
Aditya College of Engineering  
SIRAMPALM-637 437



Fwd: Industrial visit

chaturvedula <chaturvedula\_eee@acoe.edu.in>

Wed 17-08-2022 10:00 AM

To: SATHI BABU <eeeoperator@acoe.edu.in>

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From: CRC Coordinator <crc.coordinator@srisarvarayasugars.in>

Sent: Thursday, May 26, 2022 1:03:18 PM

To: chaturvedula <chaturvedula\_eee@acoe.edu.in>

Subject: Re: Industrial visit

Sir

Your request has been received regarding Industrial Visit. And we are happy to inform you that i.e on 28th May 2022 you are permitted to visit our Kesavaram Plant in Morning Section and you have to maintain all the rules and regulations which are required for Covid Norms.

Regards,

CRC

P.Jaya Prasanna.

+91 9133366933

On Sat, May 21, 2022 at 10:32 AM chaturvedula <[chaturvedula\\_eee@acoe.edu.in](mailto:chaturvedula_eee@acoe.edu.in)> wrote:

Dear mam

Ref : Telephone Conversation

I am writing this letter on behalf of the EEE department as the Associate Professor at Aditya College of Engineering seeking your permission to conduct an industrial visit to your company. I am here with attached letter head . please do the needful  
thanks and regards

Kumar Chaturvedula , M.tech (Ph.D)

Industrial visit coordinator , Aditya College of Engineering



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Ph: (0884) 2326224, 99631 76662, Email: office@acoe.edu.in, Website: www.acoe.edu.in

Date: 20-05-2022

Ref: ACOE/EEE/IND.VST/22-02

From

K. Manoz Kumar Reddy .M.Tech.(Ph.D.)  
Head of the Department, EEE,  
Aditya College of Engineering,  
Surampalem-533437, Andhra Pradesh.  
Email : hodeee@acoe.edu.in Mob : 7731829995

To

The Vice President,  
Sri Sarvaraya Sugars Limited,  
Vemagiri.  
Dear Sir,

## SUB: - REQUEST FOR INDUSTRIAL VISIT - REGARDING

Aditya College of Engineering is one of the reputed Engineering Colleges in Andhra Pradesh. The College was established in the Academic Year 2008-09 and consistently maintaining a commendable record of students' academic performance since its inception.

The College management wishes to send students of Electrical and Electronics Engineering for Industrial visit to various reputed Companies/Organizations like yours. If you permit them to visit the industry, the students will get benefited from industrial orientation in addition to academics.

In this connection we wish to send 120 students of II Year EEE along with 2 faculty members as escort. In connection with the above, we request you to give your consent for visit of our students on 4th week of May or whichever is convenient for you.

We will be highly obliged if you please drop a letter of confirmation at the earliest.

\*\*\*\*\*Kindly note that we will make our arrangements for transportation\*\*\*\*\*

Thanking you,

Yours faithfully,

*K M K Reddy*

Head of the Department  
Electrical & Electronics Engineering

Head of Aditya College of Engineering  
Surampalem-533437  
Electrical and Electronics Engineering



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## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### List of Students II B.Tech II Sem

S.No.	Roll No.	Name of the Candidate	Signature
1	21MH5A0201	AMUDALA GOPAL	A. Gopal
2	21MH5A0202	ANJURI SRI HARSHA VARDHAN	Anuri Harshavardhan
3	21MH5A0203	BANDARU GANESH	B. Ganesh
4	21MH5A0204	BATTU SRIKANTH	B. Srikanth
5	21MH5A0205	BEHARA VITHESH	B. Vithesh
6	21MH5A0206	BODDETI NARASIMHULU	B. Narasimhulu
7	21MH5A0207	CHEEPURI MADHAVA DURGA RAO	Ch. Madhava Rao
8	21MH5A0208	G NAVEEN KUMAR	G. Naveen
9	21MH5A0209	GANDEPALLI SATISH	G. Satish
10	21MH5A0210	GANTENA MAHESH BABU	G. Mahesh
11	21MH5A0211	GUNNAM KRISHNA PRASAD	G. K. Prasad
12	21MH5A0212	JAKKULA SANDEEP	J. Sandeep
13	21MH5A0213	JANGA RAMAKRISHNA BABU	J. Ramakrishna
14	21MH5A0214	KALA PRASHANTH	K. Prashanth
15	21MH5A0215	KALAGALA GOPI SUBHASH	K. G. Subhash
16	21MH5A0216	KANDALA MANOJ	K. Manoj
17	21MH5A0217	KARRI TEJA VENKATA LAKSHMI NARASIMHA RAJU	K. Teja Venkata
18	21MH5A0218	KATIKAM NARENDRA	K. Narendra
19	21MH5A0219	KATIKI SANJAY KUMAR	K. Sanjay
20	21MH5A0220	KATTA KRISHNA TEJA	K. Krishna Teja
21	21MH5A0221	KODIVENDLA MANOJ KUMAR	K. Manoj Kumar
22	21MH5A0222	KOLLAPU GANESH	K. Ganesh
23	21MH5A0223	KONALA RAJKIRAN	K. Rajkiran
24	21MH5A0224	KOPPISETTY V Y SIVABABU	K. V. Y. Sivababu
25	21MH5A0225	KOTIKALAPUDI NEELA MANIKANTA PRASANNAKUMAR	K. N. Manikanta
26	21MH5A0226	KUSUME INFANT RAJ	K. Infant Raj
27	21MH5A0227	LOLLA KARTHIK	L. Karthik
28	21MH5A0228	MADDU LAKSHMI	M. Lakshmi
29	21MH5A0229	MANGALAGIRI KIRAN PAUL	M. Kiran Paul
30	21MH5A0230	MAYIRI NAVYA SRI	M. Navya Sri
31	21MH5A0231	MUDDANA KUSHAL	M. Kushal
32	21MH5A0232	MUSTINA PRAVEEN	M. Praveen
33	21MH5A0233	N RAJESH KUMAR	N. Rajesh Kumar
34	21MH5A0234	PALEPU NOORAJ	P. Nooraj



35	21MH5A0235	PERUBOINA CHANAKYA SUBASH	P. Chandra
36	21MH5A0236	PINAKANA PRASANTH	P. Prasanth
37	21MH5A0237	SEESALA REVANTH KUMAR SATYADEV	S. Satya
38	21MH5A0238	SONTAYANA AKHILA	S. Akhila
39	21MH5A0239	SURINENI SAI SHARAN	S. Sharan
40	21MH5A0240	THANUKU CHINNACHARI	T. Chinnachari
41	21MH5A0241	THIPPANA VEERABABU	T. Veerababu
42	21MH5A0242	UDARA PAVITHRA KUMAR	U. Pavithra
43	21MH5A0243	VANGALA UPENDRA	V. Upendra
44	21MH5A0245	YARRAKULA VEERENDRA	Y. Veerendra
45	21MH5A0246	YEMMIREDDY TRIVENI	Y. Triveni
46	21MH5A0247	ANUMANCHIPALLI SRI RAGHU VEER	A. S. Raghuveer
47	21MH5A0248	BALIJI NAGA DURGA PRASAD	B. N. D. Prasad
48	21MH5A0249	ADAPUREDDY CHANDRASEKHAR	A. Chandrasekhar
49	21MH5A0250	PERURI VENKATA SATYA VEERA SIVA SAI KUMAR	P. V. S. S. Sai Kumar
50	21MH5A0251	SUNKARA EERA VENKATA HEMANTH	S. V. V. Hemant
51	21MH5A0252	DANTULURI SRI SAI GOPLA VARMA	D. Varma
52	21MH5A0253	NALLAMILLI VEERA VENKATA SATYA SAI RAM	N. Sai Ram
53	21MH5A0254	PATHI SUDHEER KUMAR	P. Sudheer Kumar
54	21MH5A0255	KARRI NAGENDRA BABU	K. N. Babu

K. M. K. Reddy  
Head of the Department  
Electrical & Electronics Engineering  
Aditya College of Engineering,  
SURAMPALEM-533 432



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2	20MH1A0202	AKULA MOHAN CHANDRA SURENDRA KUMAR	A. Mohan
3	20MH1A0203	ALLARAPU JOSHICA	A. Joshika
4	20MH1A0204	BALLA GANA ROHITH	Rohith
5	20MH1A0205	BANDARU DILEEP SAI	B. Dileep Sai
6	20MH1A0206	BANDARU SRI VENKATANADH	S. Venkatanadh
7	20MH1A0207	BIRADA SATYA SRI GOPALA KRISHNA	G. Satya Krishna
8	20MH1A0209	BODDETI VEERA GANESH	B. Veera Ganesh
9	20MH1A0210	BURRI SAI DURGA SATYA JAYA SIRISHA	B. Sirisha
10	20MH1A0211	CHALLA SAI NARASIMHA MURTHY	N. Narasimha
11	20MH1A0212	CHINTAPALLI VINAY SAI	Ch. Vinay Sai
12	20MH1A0213	DASAM SIVA SRAVANI	S. Sravani
13	20MH1A0214	DHULIPUDI GANESH	G. Ganesh D
14	20MH1A0215	GADI POORNA BRAHMENDRA	P. Brahmendra
15	20MH1A0216	GALIDEVARA GANESH KRISHNA	G. Ganesh Krishna
16	20MH1A0217	GANTA SAI LAKSHMAN	G. Sai Lakshman
17	20MH1A0218	GARAGA VENKAT VIJAY KUMAR	G. Vijay Kumar
18	20MH1A0219	MASA SAHITH	M. Sahith
19	20MH1A0220	GINNI RITISH REDDY	G. Ritish Reddy
20	20MH1A0221	GODI MUTHYANANDAM	G. Muthyanandam
21	20MH1A0222	GOLAGANI ARUNA JYOTHI	G. Aruna Jyothi
22	20MH1A0223	GOLLAPALLI DURGA MALLESH	G. Malleesh
23	20MH1A0224	GUNDUBILLI THARUN KRISHNA KUMAR	G. Tharun Krishna Kumar
24	20MH1A0225	ILLA ATCHYUTA RAMAYYA	I. A. Ramayya
25	20MH1A0226	INALA NAGA SAI HARSHITHA	I. Harshitha
26	20MH1A0227	KALTURI VINOD BABU	V. Vinod Babu
27	20MH1A0228	KARRI MOHAN PRASAD	K. Mohan Prasad
28	20MH1A0229	KASANI LAKSHMI PRASANNA	K. Lakshmi Prasanna
29	20MH1A0230	KEDARI KIRAN KUMAR	K. Kiran Kumar
30	20MH1A0231	KOLA DEEPAK KUMAR	K. Deepak Kumar
31	20MH1A0232	KURAPATI RAHUL	K. Rahul
32	20MH1A0233	LANKA SRINU	L. Srinu
33	20MH1A0235	PILLA PRAVEEN KUMAR	P. Praveen Kumar
34	20MH1A0236	VELUGULA VENKATA BHUVANESWARI	V. V. Bhuvaneshwari



S.No.	Roll No.	Name of the Candidate	Signature
35	20MH1A0237	MANGINA CHAKRAVARTHI	Chakri
36	20MH1A0238	MARAMREDDY ASWINI	M. Aswin
37	20MH1A0239	MOTURI KRUPAVATHI	M. Krupa
38	20MH1A0241	MUPPIDI SRI SAI PRASANNA LAKSHMI	M. Prasanna
39	20MH1A0242	NAGAM DIVYATEJA	D. Teja
40	20MH1A0243	NAGAM VENKATA RANGA NAYAKULU	N. V. R. Ranga
41	20MH1A0244	NAGANABOINA GOWTHAM	N. Gowtham
42	20MH1A0245	NAGIREDDI SURESH	N. Suresh
43	20MH1A0246	NAKKA SUMANTH	N. Sumanth
44	20MH1A0247	NINGINEEDI PRAVALLIKA	N. Pravallika
45	20MH1A0248	PALIK A ANUSHA	P. Anusha
46	20MH1A0249	PANTA NAGASRINU	P. Naga Srinu
47	20MH1A0250	PEDAPATI PRAKASH CHANTI	P. Prakash
48	20MH1A0251	PERURI LAKSHMI HARITHA	P. Haritha
49	20MH1A0252	POLISETTI HARSHA KRISHNA VARAPRASAD	P. Harsha
50	20MH1A0253	RAMIREDDY MAHENDRA	R. Mahesh
51	20MH1A0254	RANGIREDDY MURALI	R. Murali
52	20MH1A0255	RIMMALAPUDI SATYA SAI CHANDRA SEKHAR	R. Chandra
53	20MH1A0256	SARAGADAM TULASI KUMAR	S. Tulasi Kumar
54	20MH1A0257	SAYED SHAHUL HAMEED	S. Shahul
55	20MH1A0258	SORAPALLI CHAITANYA MOHAN	S. Chaitanya
56	20MH1A0259	VALLEPALLI NAGA SUBRAHMANYAM	V. N. Subrahmanyam
57	20MH1A0260	VASAM DURGA PRASAD	V. Durga
58	20MH1A0261	VELAMALA KAVITA	V. Kavita

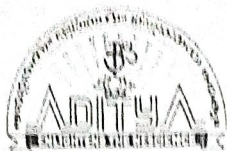
K M K Ravi

Head of the Department,  
Electronics Engineering,  
Aditya College of Engineering,  
SURAMPalem-533444









# Aditya College of Engineering

Aditya Nagar, ADB Road, Surampalem – 533437

Department of Electrical & Electronics Engineering

## LEARNING OUTCOMES MAPPING WITH POs & PSOs

POs	Strongly Mapped	Moderately Mapped	Weakly Mapped
PO1: Engineering knowledge	√		
PO2: Problem analysis	√		
PO3: Design/development of solutions	√		
PO4: Conduct investigations of complex problems		√	
PO5: Modern tool usage	√		
PO6: The engineer and society			
PO7: Environment and sustainability			
PO8: Ethics		√	
PO9: Individual and team work	√		
PO10: Communication	√		
PO11: Project management and finance	√		
PO12: Life-long learning	√		
PSOs of the Department	Strongly Mapped	Moderately Mapped	Weakly Mapped
PSO1: Apply the fundamental knowledge of mathematics, science, electrical and electronics engineering to analyse and solve the complex problems in electrical, electronics and allied interdisciplinary areas..	√		
PSO2: Design, develop and implement electrical and electronics and allied inter disciplinary projects to meet the demands of industry and to provide solutions to the current real time problems		√	

KMK Reddy  
Head of the Department  
Electrical & Electronics Engineering  
Aditya College of Engineering  
SURAMPATEM-533 437





# Aditya College of Engineering

Aditya Nagar, ADB Road, Surampalem – 533437

Department of Electrical & Electronics Engineering

## INDUSTRIAL VISIT IMPACT ASSESSMENT

Academic Year: 2021-22

### Students by practical knowledge and ratings obtained (%)

The students rated the industrial visit program out of 100 points by comparing their expectations before integrating the program with the results they achieved.

The following ratings were used:

Not Satisfied (below 50%), Good (50-70%), very Good (70-80%) and beyond Expectations (more than 80%).

The outcomes are illustrated as follows:

Rating Item	Excellent	Very Good	Good	Not Satisfactory
Support received from Institution on Industrial visit identification	80	20	0	0
Understand the functioning of the industry	70	30	0	0
Getting insights into the real working environment	60	30	10	0
Opportunity to interact with the experts	40	40	20	0
Enhance their interpersonal skills	50	50	0	0
Understanding job procedures	45	35	20	0
Enhanced Employability	50	50	0	0





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Department of Electrical & Electronics Engineering

Student Outcomes & Impact illustrated as follows:

