

Dr. Aparna Jitesh Tailor
Assistant Professor
Microbiology
Date: 20th December 2022

To,
The Principal
Dr. APJ Abdul Kalam Govt. College
Dokmardi, Silvassa.

SUBJECT: Report submission for Industrial Visit to KLJ Plasticizers, Silvasa

Respected Sir,

Kindly find enclosed report for "Industrial Visit to KLJ Plasticizers, Silli, Silvassa" organized by Department of Botany and Department of Microbiology, on 15th December 2022. Dr. Aparna J. Tailor and Shri Ugesh Mahla accompanied 21 students of Semester V. Also, a letter from KLJ Plasticizers is attached herewith for your kind reference.

Thank you for your kind co-operation,

Yours Faithfully



(Aparna J. Tailor)

Professor I/C. (Microbiology)
DR. APJ ABDUL KALAM GOVT. COLLEGE,
Silvassa, DNH & DD.



(Prakash R. Patel)

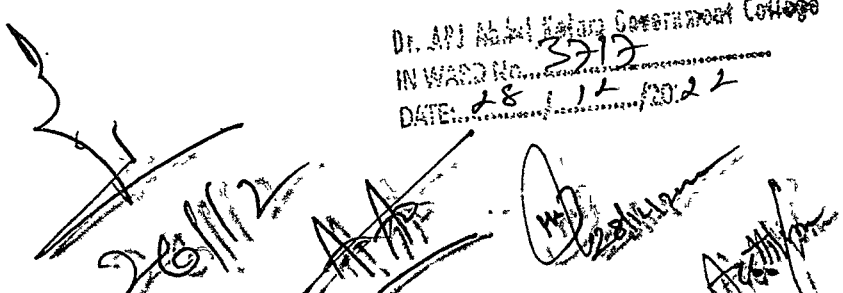
Professor I/C. (Botany)
DR. APJ ABDUL KALAM GOVT. COLLEGE,
Silvassa, DNH & DD.

Enclosures:

1. Report for Visit to KLJ Plasticizers.
2. Photocopy of the letter from General Manager of KLJ Plasticizers for the visit
3. Photocopy of the attendance sheet for the visit

Micro Dept
Botany Dept
AID

Dr. APJ Abdul Kalam Government College
INWARD No. 3212
DATE: 28/12/2022



30/12/2022
31/12/2022
31/12/2022
31/12/2022

Attendance Sheet

Dr. APJ Abdul Kalam Govt. College Silvassa

Activity: Industrial Visit

Name of the Industry: KLJ Plastisizers, Silli, Silvassa

Class: B. Sc. Sem V (Botany & Microbiology)

Date: 15th December 2022

Sr. No.	Roll No.	Subject	Name of the Student	Signature
1	201	Botany	Ankita R. Garmit	A.R. Garmit
2	202	Botany	Patel chetika B.	Patel
3	203	Botany	Patel Chaudhari Divya C	C.D.C
4	204	Botany	Patel Falguni	Falguni
5	205	Botany	Patel Harshita	Harshita
6	206	Botany	Jairaj Patel	JRP
7	207	Botany	Bhoya Kamini	K.U. Bhoja
8	208	Botany	Patel Nikita	Patel
9	209	Botany	Nity Vilhat	Nity
10	210	Botany	Poonkle Patel	Patel
11	211	Botany	Patel Payal	Patel
12	212	Botany	Patel Shalima	Patel
13	301	Microbiology	Vamma Chandni M.	C.M. Vamma
14	302	Microbiology	Singh Kavishma Narendra	Kavishma
15	303	Microbiology	Kronal M. Patel	Kronal
16	304	Microbiology	Manisha Joginderan Vaswan	Manisha
17	305	Microbiology	Ray Menka Ku. Ajay	Menka
18	306	Microbiology	Omkar D. Dere	Omkar
19	307	Microbiology	Prince V. Patel	Prince
20	309	Microbiology	Ritul R. Rana	Ritul
21	310	Microbiology	Shahin Hareem	Shahin

Name of the Accompanying Faculty members:

1. Shri Ugesh Mahla (Botany):



2. Dr. Aparna Jitesh Tailor (Microbiology):


15/12/22

Industrial Visit to KLJ Plasticizers, Silli, Silvassa

Report on

Industrial Visit to KLJ Plasticizers Ltd., Silvassa, 15th December 2022

An Industrial Visit for Final Year B. Sc. Students was scheduled by Department of Microbiology and Department of Botany, jointly with Department of Chemistry, Faculty of Science, on 15th December 2022, 12:00 pm to 2:30 pm, for Microbiology and Botany students. Total of 12 students of Semester V Botany and 9 students of Semester V attended the visit. Dr. Aparna Jitesh Tailor, Assistant Professor, Microbiology and Shri Ugesh Mahla, Assistant Professor, Botany, accompanied students to KLJ Plasticizers Ltd., Silvassa, unit.

After the initial entry pass formalities at the gate of the KLJ Plasticizers unit, at Silli, team of faculty members and students, was greeted and guided by Dr. Vrajesh Aghera, Manager, QC and R & D Department. Sir guided the team to Conference Hall of the unit first. The students were showed a short video on development of KLJ industries and their different products including plasticizers, esters and further expansion to Real Estate fields also. The video also focused on Shri Kanhaiya Lal Jain, the Founder of KLJ Industries and their team.

Further to the video demonstration, students were taken to Pilot Scale production unit, where students were demonstrated with the synthesis of esters at pilot scale using Phthalic acid and Octanol. Students learnt about different glassware including three mouth Round Bottom flask; Heating Mantle to maintain the temperature; Reservoir of Alcohol and Acids; and Reflux Condenser for collection of esters and returning of remainder alcohol to the reaction flask.

Then the students were taken to Quality Control lab (QC lab), where Acid-base titration was demonstrated to students by Mr. Mehta, to study about the concentration of product formed in Pilot scale and Large scale. An Auto-titrator was also demonstrated to students, which is used for the product QC process. Further, students were also taken to the Chromatography room, where students were demonstrated about working and application of Gas-Liquid chromatography (GLC) to assess the purity of the product. Students were nicely detailed about how GLC works, including the flame and its application to convert product into gaseous form, the capillary column, the gas pipelines and valves, with different colours to indicate different gases inlet and outlets. Significance of silica gel in the inlet pipes was also told to students, to maintain gas in complete dry state, to prevent corrosion of the instrument.

Industrial Visit to KLJ Plasticizers, Silli, Silvassa

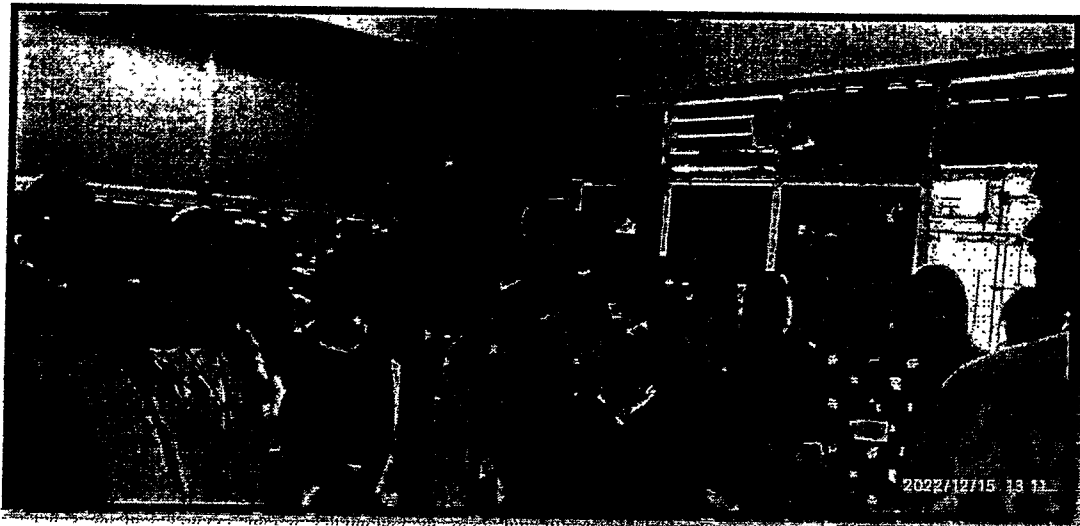
Next, students and faculty members were instructed to wear safety helmets as they were being taken to visit and have a look at large scale production unit. It was instructed that the basic liquid esters only are synthesized at this unit, which are then sent to the other plant for further conversion to plasticizers in granular form. Recently, they are synthesizing phthalate esters from Phthalic acid and Octanol, in capacity of 50000 litres per tank. Large containers for storage of Alcohol and acid were also shown to students from distance due to safety purposes. The raw materials after QC are used in synthesis, and post-synthesis the ester was stored in large tanks and after passing through QC, the product is packaged into large plastic containers and then sent to the other unit.

The visit was completed at 2:30 pm and students and faculty members safely returned to the college, in the bus provided by the college administration. Feedback form was taken from students to emphasize on the learning outcomes. Department of Botany and Department of Microbiology are thankful to Principal sir and College administration for kind cooperation during the visit.

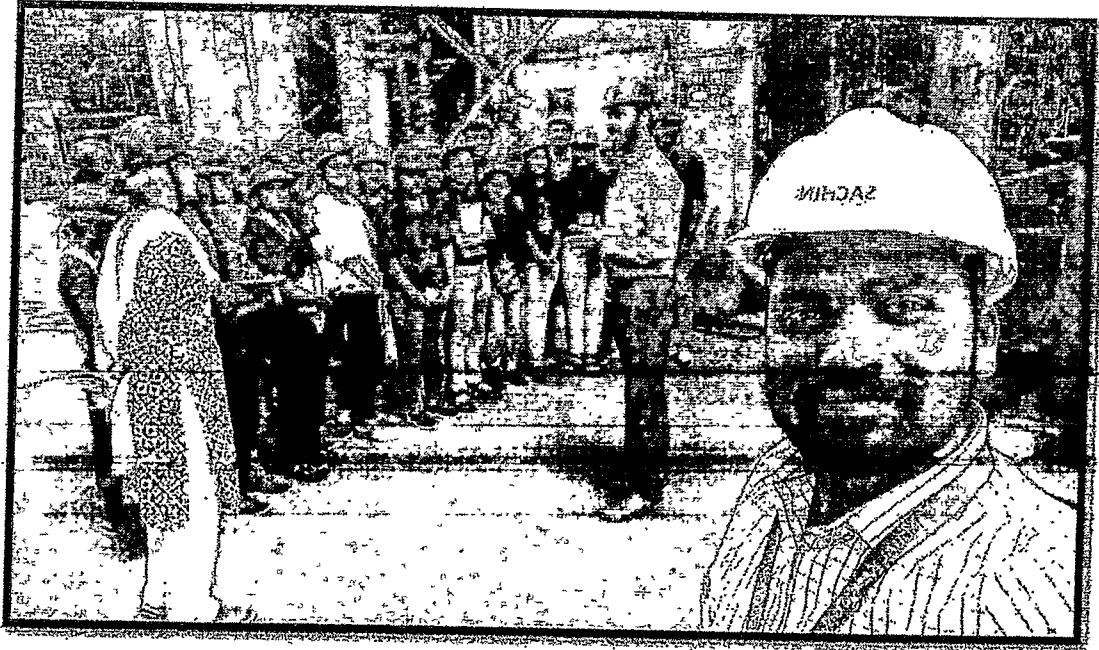
Few Glimpses of the Visit to KLJ Plasticizers



Industrial Visit to KLJ Plasticizers, Silli, Silvassa



Industrial Visit to KLJ Plasticizers, Silli, Silvassa



Prepared & Submitted by:

Dr. Aparna Jitesh Tailor

Professor I/C. (Microbiology)
DR. APJ ABDUL KALAM GOVT. COLLEGE,
Silvassa, DNH & DD.

Dr. Prakash R. Patel

Professor I/C. (Botany)
DR. APJ ABDUL KALAM GOVT. COLLEGE,
Silvassa, DNH & DD.



KLJ PLASTICIZERS LIMITED

Works : Survey No. 98/1, 98/1/2, 98/1/3, 98/1/4, 98/1/7, Village-Silli, Silvassa - 396 230.
Dadra & Nagar Havell and Daman & Diu. Tel.: 9909996425, 9909996426, 9909996427 & 9909996428
CIN No.:U25200DL2008PLC181088 E-mail : silvassa@kljindia.com

DATE: 23/12/2022


TO WHOM SO EVER IT MAY CONCERN

THIS IS TO CERTIFY THAT FINAL YEAR B.SC. STUDENTS FROM DR. A P J ABDUL KALAM GOVT. COLLEGE, (DOKMARDI) SILVASSA VISITED OUR ORGANIZATION IN THREE BATCHES ON 15TH, 16TH AND 17TH DECEMBER 2022 FROM 12:30 PM TO 03:00 PM. WE FORWARD OUR BEST WISHES TO THE STUDENTS FOR THEIR BRIGHT FUTURE.

FOLLOWING FACULTY MEMBERS WERE ACCOMPANIED WITH THE STUDENTS.

NAME OF THE FACULTY MEMBER.	DATE OF VISIT
DR. APARNA J. TAILOR ASST. PROFESSOR (MICROBIOLOGY)	15TH DECEMBER 2022
MR. UGESH MAHALA STC (BOTANY)	
DR. HIMANSHU D. PATEL ASST. PROFESSOR (CHEMISTRY)	16TH DECEMBER 2022
DR. RAMA MITTAL VISITING FACULTY (CHEMISTRY)	
DR. SONY AMRENDRA ASST. PROFESSOR (CHEMISTRY)	17TH DECEMBER 2022
DR. SURESHKUMAR L. CHAVDA ASST. PROFESSOR (CHEMISTRY)	

FOR KLJ PLASTICIZERS LTD.


(R. P. SHARMA)
General Manager

REGD. OFFICE : KLJ House, 63, Rama Marg, (Najafgarh Road), NEW DELHI - 110 015. Tel : 011-25459706-7-8 Fax : 011-25459709
MUMBAI OFFICE : Hubtown Solaris, 403/404, 4th Floor, N. S. Phadke Marg, Near Andheri East West Flyover, Andheri (East), MUMBAI - 400 069,
Maharashtra. Phone No. : (022) 61830000-100, Fax : 2624 4009. E-mail : mumbai@kljindia.com



(AN ISO 9001:2015 & ISO 14001:2015 CERTIFIED COMPANY)




Professor (Microbiology)
Dr. A.P. Abdul Kalam Govt. College


Professor (Botany)
Dr. A.P. Abdul Kalam Govt. College



Dr. APJ Abdul Kalam Government College

डॉ. एपीजे अब्दुल कलाम शासकीय महाविद्यालय

Dadra and Nagar Haveli Uchha Shikshya Samiti
दादरा एवं नगर हवेली उच्च शिक्षा समिति

Affiliated with Gujarat University, Ahmedabad; Recognized by UGC under Section 2(f) & 12(B),
NAAC Accreditation Grade "B"

गुजरात विश्वविद्यालय, अहमदाबाद से संबद्ध विश्वविद्यालय अनुदान आयोग द्वारा २ (एफ) के अंतर्गत सूचीबद्ध
Dokmardi, Silvassa-396230, Dist. Dadra & Nagar Haveli, (U.T. of DNH & Daman & Diu)
डोकमर्डी, सिवसा-३९६२३०- डिस्टा दादरा नगर हवेली : केंद्रशासकीय प्रदेश दादरा एवं नगर हवेली एवं दमन एवं दीव

Phone No: 9429427117

website: <http://www.apjakgc.ac.in>

Email: dnh.sih12011@gmail.com

No. EDN/APJAKGC/Dept./Chem/2021/619/3562

Date:- 16/12/2022

Reference:- Letter dated 08.12.2022 received from Dr. Suresh Chavda, Asstt. Professor
(Chemistry) for Student's Industrial visit at KLJ Plasticizer Ltd., Silli, DNH

ORDER

Department of Science, Dr. APJ Abdul Kalam Govt. College has organized Industrial Visit for Students of B.Sc Sem-5 to visit KLJ Plasticizer Ltd., Silli, DNH. Following Teaching Faculties are assigned duty to escort Students during field visit as per below mentioned schedule:-

Sr.No.	Name of Teaching Faculty	Date and Time
01.	1. Dr. Aparna J Tailor, Asstt. Professor (Microbiology). 2. Shri Ugesh Mahala, Asstt. Professor (Botany) (STC faculty)	15.12.2022 from 12:00 p.m. onwards
02.	1. Dr. Himanshu D Patel, Asstt. Professor (Chemistry). 2. Dr. Rama Mittal, Visiting Faculty (Chemistry)	16.12.2022 from 12:00 p.m. onwards
03.	1. Dr. Suresh Chavda, Asstt. Professor (Chemistry). 2. Dr. Sony Amrendra, Asstt. Professor (Chemistry)	17.12.2022 from 12:00 p.m. onwards.

Necessary safety measures and strict discipline amongst the Students has to be ensured by the faculty members during visit.



(Dr. Bhagwanjee Jha)
Principal (I/c.)
Dr. APJ Abdul Kalam Govt. College
Silvassa

To:-

All concerned.

Copy to:-

1. P.A. to the Secretary (Higher & Tech. Education), DNH & DD/ Chairman (Executive Committee), DNHUSS for information please.
2. P.A. to the Director (Higher & Technical Education), DNH & DD for information.
3. Guard File.

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