



CHEMICAL ENGINEERING DEPARTMENT

A Report on Industrial Visit at

Colourtex Industries Private Limited, Vilayat

Objective of Industrial Visit:

The main objective of the organized industrial visit is to let students understand various significant concepts practically through interaction and analyzing the actual working methods. Moreover, it gives exposure from academic point of view. Major aim of the industrial visit is to provide an exposure to students about theory and practical work interaction as well as actual difference between theoretical diagram of object and actual working model process rather than ideal one.

Details of Industry:

1. Name of Industry: - Colourtex Industries Private Limited
2. Address: - Plot No: - 3/a/1, G.i.d.c. Vilayat, Taluka- Vagra, Vilayat, District: Bharuch, Gujarat, 392165, India
3. Date of Visit: - 22/04/2024
4. Year / Semester: - 3rd Year/6th Sem
5. No. of Students: - 37
6. No. of Faculties: - 3

Class Coordinator: - Prof. Riya B. Patel & Prof. Jaydeep M. Barad

Descriptions:-

On 22nd April 2024, we had an Industrial Visit at Colourtex Industries Private Limited, Vilayat. It was an excellent opportunity to get industrial exposure in such a huge company.

The scheduled time for the assembly at Colourtex Industries Private Limited training center was 11:30 AM. At 11:45 AM, we reached the Colourtex Industries Private Limited Vilayat, Firstly we visited the safety plant where in the seminar hall where we got the industry overview. Colourtex Industries Pvt. Ltd. is a dyestuff company. It manufactures dyes and pigments. The raw materials required for manufacture of dyes are PNA (Para nitro Aniline). PNA is a an intermediate for the manufacture of dyes .In unit-5 of Colourtex Industries Pvt. Ltd. PNA is manufactured . Para nitro Chloro Benzene and Ammonia are used as raw material to produce Para nitro Aniline. The production of PNA begins with the Mixing of PNCB and Ammonia in an Autoclave reactor. The process is maintained for 24 hours.



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After then the mixture is transferred to Agitated Netsche Filter (ANF) where PNA is obtained in powder form containing less than 15% moisture and the mother liquor obtained is recycled in the CSTR and then fed to Multi Effect Evaporator (MEE) Plant where CaCl_2 (Calcium Chloride) is obtained as a by the product. The Ammonia vapours obtained from Autoclave, ANF and CSTR are recycled in the absorber which is again reused in Autoclave as ammonia liquor.

It take us 3:15 hours to get to know about PNA Project then we lead towards the canteen at 2:30 PM which is offered by Colourtex Industries Private Limited, Bharuch. Lunch was good like home. After lunch, we lead towards the waste water treatment plant and boiler plant in Colourtex Industries Private Limited. We reach the location at 4:30 PM and one of the experts of that plant guided us firstly they explained to us the whole process sequence. They showed us the DCS-PLC operating area where the whole unit is controlled automatically. The expert of that unit showed us the single equipment, utilities and auxiliaries of that unit.

They showed us the Multieffect evaporator Unit, Scrubbers, Heat Exchangers, Condensers, Valves, Pumps, etc. After that, they told all of us to ask questions related to the unit. Some of us asked our doubts and get answered well by experts. It gets 4:15 PM. There all shared their views on Industrial Visit. We thanked the expert for guiding us and solving our doubts. We thanked the Colourtex Industries Private Limited, Bharuch and IICHe Ankleshwar for allowing us for Industrial Visit.

At 4:30 PM, we had a memorable photo at Colourtex Industries Private Limited, Bharuch and leads towards the exit gate and left the Colourtex Industries Private Limited campus. Every student now has a different view of Industry. The importance of Practical knowledge with Theoretical knowledge increased. Everyone is now focused towards their career. Industrial Visit is very important for every Engineering Student, especially for Chemical Engineering Students. We personally think that in Every Semester there should be at least 2 Industrial visits according to the studies they are studying.

College Faculties & Staff Presence in the Visit:-

1. Prof. Riya B. Patel
2. Prof. Jaydeep M. Barad
3. Mr. Abhiraj Rathod

Students Presence in the Visit: - Annexure-I

Photographs: - Annexure-II



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Annexure-I

STUDENT LIST FOR INDUSTRIAL VISIT AT colourtex					
DATE FOR VISIT: 22/04/2024					
Sr No.	Enrollment No	Student Name	Semester	Phone No.	Sign
1	210490105003	Vasava Sumitkumar Dineshbhai	6th	9313901700	<i>Sumit</i>
2	210490105004	Gayakwad Yash Vijay Bhai	6th	9328740179	<i>Yash</i>
3	210490105005	VASAVA KISHANBHAI THAKORBHAI	6th	9327805622	<i>Kishan</i>
4	210490105006	vasava yatish chandrakant	6th	9106078665	<i>Yatish</i>
5	210490105007	chaudhari Arpit Mukeshbhai	6th	9313083199	<i>Arpit</i>
6	210490105008	SUNVA KIRTANSINH NARENDRASINH	6th	9510878207	<i>K. N. Sunva</i>
7	210490105010	Pal Yash Rajendraprasad	6th	9428321068	<i>Yash</i>
8	210490105012	Rakholiya Akshar Prakashbhai	6th	7490837134	<i>Akshar</i>
9	210490105014	Vasava Pritikal Ashokbhai	6th	7874156812	<i>Vasava P.A.</i>
10	210490105018	VASAVA BHAVESH RATILAL	6th	9328815425	<i>Bhavesh</i>
11	210490105019	Axaykumar Sunilbhai chaudhari	6th	9106636004	<i>Axay</i>
12	210490105020	Rathod darshan rakeshbhai	6th	8980288237	<i>Darshan</i>
13	210490105021	Vekariya Jaimin Arvindbhai	6th	9904418506	<i>Jaimin</i>
14	210490105023	vasava Emanuel dipakbhai	6th	8849406793	<i>Emanuel</i>
15	210490105024	Vasava Ankit anilbhai	6th	9978105267	<i>Ankit</i>
16	210490105026	vasava Rohan natvarbhai	6th	9265309064	<i>Rohan</i>
17	210490105027	Patel Mehul pravinbhai	6th	6356844614	<i>Mehul</i>
18	210490105029	Gamit Khushbu Manishbhai	6th	7861953338	<i>Khushbu</i>
19	210490105030	TIWARI NILESHKUMAR RAKESHKUMAR	6th	9558003619	<i>Nilesh</i>
20	210490105031	Sunil Vikash Sen	6th	6351564353	<i>Sunil</i>
21	210490105032	Vasava Atul Sureshbhai	6th	7863044518	<i>Atul S.V</i>
22	210490105033	Rathod Preksha Sandip Bhai	6th	9429173948	<i>Preksha</i>
23	210490105035	Shah Mahek kalpeshbhai	6th	9913348792	<i>Mahek</i>
24	210490105036	Henil Rajubhai Maisuriya	6th	7861014648	<i>Henil</i>
25	210490105038	Manav Mukeshbhai Jaisinghani	6th	6354092793	<i>Manav</i>
26	210490105039	Krish Dipakbhai Panchal	6th	9687348221	<i>Krish</i>
27	210490105040	Devanshu Pravinchadra Prajapati	6th	7698264292	<i>Devanshu</i>
28	210490105042	kankadiya Shubham Alpesh	6th	8490002150	<i>Shubham</i>
29	210490105046	srushti ballubhai chaudhari	6th	9316563670	<i>Srushti</i>
30	210490105049	YADAV ARUN ASHOK	6th	9173293847	<i>Arun</i>



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31	210490105056	Bhoi sagar Bharatbhai	6th	9510289927	sagar B. Bhoi
32	210490105062	Kotvaliya Jignesh Narendrabhai	6th	7990159934	J
33	210490105063	Chaudhari Mit jashvantbhai	6th	6356090618	Mit Chaudhari
34	220493105003	ChintanSinh PrakashSinh Desai	6th	7567826667	C. P. Desai
35	220493105005	Gaurav Rajubhai Jagtap	6th	9316289430	Gaurav
36	220493105008	Mahida Ujvala Sanjaysinh	6th	8511642870	U. S. Mahida
37	220493105010	Rahul kamleshbhai Panchal	6th	7623983488	Rahul Panchal



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Annexure-II





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