

G H Patel College of Engineering & Technology
(A Constituent College of CVM University)
Civil Engineering Department

Exposure and Field visit for problem identification at “National Academy of Indian Railways, Vadodara and MAPEI (Construction Chemical company), Savli”

(Under the Banner of IIC, CVMU and GCET)

- ❖ **Date:** Visited on 23rd September, 2023
- ❖ **Time:** 08:00am onwards
- ❖ **Institute:** G H Patel College of Engineering & Technology
- ❖ **Venue:** National Academy of Indian Railways, Vadodara and MAPEI (Construction Chemical company), Savli
- ❖ **Coordinator:** Prof. Nirajkumar Mandowara
- ❖ **Convenor:** Dr. Khadeeja Priyan
- ❖ **No of Participants:** 42 Students, 2 Faculty Members
- ❖ **Link of social media:**
<https://www.facebook.com/100046328324695/posts/pfbid02RaRKUFLrNbBeSm89WtikitR1PQ5Ff58WzTFqh6Au98H7ocTdZ3UNVMResMjZYjqXI/?mibextid=cr9u03>

Report of Visit

Department of Civil Engineering, GCET had organized one day educational visit to “National Academy of Indian Railways, Vadodara and MAPEI (Construction Chemical company), Savli” on September 23rd, 2023, as a part of Exposure and field visit for problem identification, 23 celebrations. 42 students, 2 faculty members had visited.

Aim of Visit:

The main aim of visit is to make students aware about the practical consideration, history and modernization of Indian Railway and its future. Challenge faced by Indian railways and how they overcome from those challenges, Component understanding, problem identification and the solution for it & also regarding the understanding of the future requirement of chemicals in construction industries to get insight about various challenges which can occurred in the future.

Objective of Visit:

The objective of visit is to make students aware about the recent trends in the Railway as well as construction chemical. Also, what are the challenges/problems for advancement going on in the railway engineering. Also, what are the challenges/ problems faced in utilization of construction chemical, their sustainability, their affordability and many more.

About Visit:

The visit was organized on September 23rd, 2023, Saturday. The visit started from the campus at 08:00 am and reached National Academy of Indian Railways, Vadodara at 10:15 am. After reaching to NAIR, Mr. Kulkarni, Senior Instructor, Model Room, NAIR welcomed us and briefed

everyone about the NAIR model room. The information like the history of Indian Railways,

history of communication in Indian railways and its modernization and future scopes, were given to all the students. Also, the problems in Indian railways related to communication or construction have been discussed with Mr. Kulkarni. It was very much informative session for all the students and faculties.

Next, we visited MAPEI, Alindra, Savli Industrial Estate, Vadodara. Mr. Neeraj Prajapati explains us about the company's products, their use, their importance now and in future, what are the challenges for construction chemical present and future were discussed. Later the practical session for utilization of construction chemicals were shown to all the students. This visit helps

in understanding the use and requirement of construction chemicals on site and future scopes

About National Academy of Indian Railways, Vadodara (NAIR):

National Academy of Indian Railways (NAIR)—erstwhile Railway Staff College, originally started in the year 1925 as a Transportation School, is the apex training institute of Indian Railways (IR). The Academy has been operating from the Pratap Vilas Palace situated in Vadodara city, the cultural capital of Gujarat state, since 31-Jan-1952. The lush-green campus of the Academy is IGBC certified as well as ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007 certified. The campus is spread over 43.5 acres (approx.) of lush green forest and lawns.

Every year, the Academy trains Probationary Officers of all the organized services of Indian Railways. Besides, various Management, Capacity building and functional programmes are organized to train Railway officers in different stages of their career. The Academy also organizes customized training programmes for non-Railway personnel like Executives of Public Sector Undertakings, Foreign Nationals and Private organizations.

The major training programmes being undertaken at the Academy are:

- Foundation programmes for Probationary officers of all Group-A Railway services.
- Induction programmes for Probationary officers of all Group-A Railway services.
- Centralized training to Probationary officers of Group-A Indian Railway Personnel, Stores and Health services.
- Foundation Programmes for Group-B Officers of all Railway departments.

About MAPEI, construction chemical company:

MAPEI is among the world's leading manufacturers of chemical products for the building industry. They offer long-lasting high-quality products that are mindful of both the planet and people. They draw on this same expertise to contribute to the most important architectural and infrastructural works globally, including projects in the housing industry and renovation of historic buildings. The students were introduced to various construction problems, their solutions, hands on practice of use of construction chemical products, the future scope of research and many more.

❖ **Photographs:**



GPS Map Camera



Alindra, Gujarat, India
C6XG+4XF, Alindra, Chandranagar, Gujarat 391775, India
Lat 22.448417°
Long 73.228513°
23/09/23 04:08 PM GMT +05:30





❖ **List of Participants:**

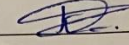
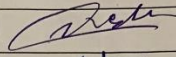
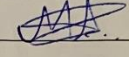
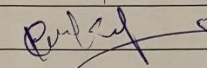
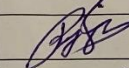
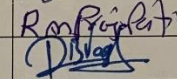
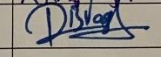

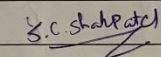
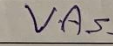
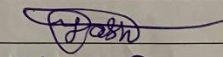
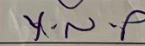
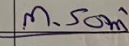


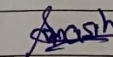
Sr. No.	Enrollment No.	Name	Signature
1.	12002030501001	AKSHARKUMAR NIKUNJBHAI PATEL	<i>Aksh</i>
2.	12002030501002	DIXIT VIPULBHAI MARKANA	<i>Dixit</i>
3.	12002030501003	JAINAM RASHMIKANT PANCHAL	<i>Jainam</i>
4.	12002030501004	JAYVEERSINH BALVANTSINH GOHIL	<i>Jayveer</i>
5.	12002030501005	LAYKUMAR HITENDRABHAI PATEL	<i>Laykumar</i>
6.	12002030501006	NEELKUMAR ARVINDBHAI MISTRY	<i>Mistry</i>
7.	12002030501007	OM DHARMESH RAJYAGURU	<i>Om</i>
8.	12002030501009	TIRTH BIPINKUMAR PATEL	<i>Tirth</i>
9.	12002030501011	YAGNADEVSINH JAYDEVSINH JADEJA	<i>Yagna</i>
10.	12002030501012	HIREN VINODBHAI DHANKECHA	<i>Hiren</i>
11.	12002030601001	PATEL BADALKUMAR SAUMILKUMAR	<i>B. S. Patel</i>
12.	12002030601002	MATHUKIYA HARSHIL JIGNESHBHAI	<i>Harshil</i>
13.	12002030601003	PATEL JIL ALKESHBHAI	<i>Jil Patel</i>
14.	12002030601004	PRAJAPATI NIKUL PARESHBHAI	<i>Prajapati Nikul</i>
15.	12002030601005	SWARAJ SANIDHYA BIPIN	<i>Swaraj</i>
16.	12002030601006	BARAPATRE SHUBHECHA JAIHARY	<i>Shubhecha</i>
17.	12002030601007	UPADHYAY SONAM BIRENDRA	<i>Sonam</i>
18.	12002030601008	GAJERA VAIBHAV VIMALBHAI	<i>Vibh</i>
19.	12002030601009	GAYAKWAD YOGESHBHAI RAMDASBHAI	<i>Yogesh</i>
20.	12102030503001	ADITYA NARENDRA LODHARI	<i>Aditya</i>
21.	12102030503002	AMI PRAVINKUMAR JADAV	<i>Ami</i>
22.	12102030503003	ANJLIBEN AJITSINH RATHOD	<i>Anjliben</i>
23.	12102030503004	ARPIT ASHWINKUMAR RAVAL	<i>Arpit</i>
24.	12102030503005	KHEDAWALA BHADRESH D	<i>Bhadresh</i>
25.	12102030503006	BHAVIK RAMESHBHAI VAGHELA	<i>Bhavik</i>
26.	12102030503007	DEVRAJ JAYENDRASINH SISODIYA	<i>Devraj</i>
27.	12102030503008	HUSSAIN MANNAN LIMDIWALA	<i>Hussain</i>
28.	12102030503009	KISHAN BHAVESHBHAI KACHA	<i>Kishan</i>

G H Patel College of Engineering & Technology

Department of Civil Engineering

Date of Visit: 23/09/2023 Saturday

Attendance Sheet for Visit to NAIR, Vadodara and MAPAI, Vadodara

29.	12102030503010	KRISHA NIPULKUMAR VAGHELA	
30.	12102030503011	KUSHAL AKSHAYKUMAR SHAH	
31.	12102030503012	MAHAMMADUVESH ABIDALI ABBASI	
32.	12102030503013	MANAN HEMANGBHAI TRIVEDI	
33.	12102030503015	NISHARGKUMAR HIRENBHAI PATEL	
34.	12102030503016	PANKAJKUMAR HARISHANKAR VANKAR	
35.	12102030503017	PREM PARESHBHAI PARMAR	
36.	12102030503018	RAJ VIJAYBHAI TANK	
37.	12102030503019	RAJKUMAR MAHENDRABHAI PRAJAPATI	
38.	12102030503020	RAVIRAJ SINH BHAGIRATHSINH VAGHELA	
39.	12102030503021	RITESHKUMAR VIRCHANDBHAI DORU	
40.	12102030503022	RUSHIT SNEHALKUMAR SUTARIYA	
41.	12102030503023	SMIT CHETANKUMAR SHAHPATEL	
42.	12102030503024	TEJ RAJESHKUMAR SHAH	
43.	12102030503025	UMANGKUMAR HARSHADBHAI SOLANKI	
44.	12102030503026	VARSHIL ASHOKBHAI SHAH	
45.	12102030503027	YASH GIRISHBHAI SHAPARIA	
46.	12102030503028	YASH NITINKUMAR PATEL	
47.	12102030503029	MANAN RAKESH SONI	
48.	12102030503030	KATHADI MOHAMMEDUMAR	
49.	12102030603001	GADHER AARTI MANSHUKHBHAI	
50.	12102030603002	PATEL AKSHAR DHARMENDRABHAI	
51.	12102030603003	MAKWANA DEVJIBHAI MANJIBHAI	
52.	12102030603004	BHARWAD GAUTAM DEVENDRABHAI	
53.	12102030603006	MAHLA HIMANSHUKUMAR ROHITBHAI	
54.	12102030603007	KASARA HITESHKUMAR CHANDRAKANT	
55.	12102030603008	VOHRA MAHAMMAD FAIZAN RAFIKBHAI	
56.	12102030603010	POKIYA NEELKUMAR BHARATBHAI	
57.	12102030603011	MASIH SHIREEN ENOSHBHAI	
58.	12102030603012	SHAIKH SOHAIL AYUBBHAI	

