

G H Patel College of Engineering & Technology, CVM University

A Report on Industrial Visit on Kerakoll India Pvt. Ltd. The Green Building Company, Vadodara

About the event:

Department of Civil Engineering, GCET has organized one day (22/10/2024) industrial visit to “Kerakoll India Pvt. Ltd., Savli, Vadodara”. A visit was organized under the IGBC student chapter on the occasion of IGBC week celebration, September 2024. A total of 40 students of 2nd, 3rd and 4th year along with 3 faculty members, Dr. Khadeeja Priyan, Dr. Rajiv Bhatt and Dr. Snehal Popli visited the Company.

Kerakoll is an Italian based company which works on the concept of green building. It manufactures and supplies the green building materials mainly construction chemicals for the better and sustainable life of the building. The entire visit was divided in different sessions consisted of Kerakoll Flooring system, Cladding system and Grouting system and factory visit. The sessions were conducted by Mr. Akash Nair, Business Development Manager, Mumbai Division, Kerakoll India Pvt. Ltd. All the sessions were very much interactive and enriched us with the basic knowledge that every Civil Engineer should know.

During Factory visit, temp and humidity maintained storage area, manufacturing and packaging area, warehouse for loading and unloading, automatic fully controlled computerized plant, fully develop well equipped quality control labs and their products were shown.

The visit was started with production area where we saw the semiautomatic plant with 120 capacities per 8 hours shift. PLC wonder well software is utilized for managing the fully automatic plant. The fully automatic plant has the capacity of 1400 per hour where we observe silos, seeing process, mixing process and packaging process. Then Mr. Akash discussed about the liquid packaging line where we observe that at certain temperature the packaging was carried out and 80 containers per one pellet box and it has self-life of 2 years. Mr. Akash explained how to use this liquid material at site.

Further, We visited Research and Development cell where Dr. Iqbal Khan explained all the test which are carried out for raw material and finished products. Dr. Khan explained various codes utilized for the experimental purpose and manufacturing of the materials. He explained various instruments such as Spectrophotometer, XRD, and other instruments. He explained various tests which are carried out to check the strength and flexibility of the materials such as sagging test, flexibility test, chemical test, liquid consistency test, etc.

The best part of all the sessions was that we were shown the live demonstration of the Kerakoll products like “ Bio-Cem” for flooring, “H40 No limit” for cladding and , “ Fugalite” for grouting. The amounts of material taken during the processes were also discussed. The fundamentals of each process, factors affecting each process and care to be taken during the process was discussed in detail.

During the discussion Mr. Akash explained the types of stones, effect of types of stone in application, calculation of amount of materials to be taken, thickness of all layers, effect of atmospheric temperature and humidity during application, instruments used in application, types of floors, effect of flooring material during application, types of grouting etc.

Also, the demonstration of stability and strength of the green materials in cladding of the tiles was shown using water load and the load is applied in the direction of gravitational force. Students learnt the fast application of the adhesives in cladding system and observed the strength of the materials. They learn that in normal construction work requires long hours of curing but by addition of construction chemicals that can be minimized.

The details of the event are as follows:

Date: 22/10/2024

Time: 10am to 5.00 pm

Venue: Kerakoll India Pvt. Ltd, Vadodara

Objective:

The main aim of the visit is to make the students aware about the application of various green construction materials in flooring, cladding and grouting. The aim is also to observe the production unit of the green materials in the factory. Also, to observe the R and D activities carried out in the industry.

Participation (Attendance sheet):



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G H PATEL COLLEGE OF ENGINEERING & TECHNOLOGY
KERAKOLL PRIVATE LIMITED

Attendance of Industrial Visit to Kerakol

Sr. no:	Name:	Enrollment number:	Year	Signature:
1	Parmar Jayankumar Maheshbhai	12102030601005	4th year	<i>[Signature]</i>
2	Deepish nadge	12102030501001	4th year	<i>Ab</i>
3	Preet Desai	12102030501002	4th year	<i>P. Desai</i>
4	Devrajsinh Satdipsinh Rathod	12102030501003	4th year	<i>[Signature]</i>
5	Hrishee Lad	12102030501004	4th year	<i>[Signature]</i>
6	Krutarth Patel	12102030501005	4th year	<i>[Signature]</i>
7	PREET PRAJAPATI	12102030501008	3rd year	<i>P. Prajapati</i>
8	Nakum Ravi	12102030501009	4th year	<i>[Signature]</i>
9	Solanki Ridham Bharatbhai	12102030501010	4th year	<i>[Signature]</i>
10	Patel Shivam	12102030501012	4th year	<i>[Signature]</i>
11	Gabani Girishkumar M	12102030601003	4th year	<i>[Signature]</i>
12	Jaimin vasaiya	12102030601004	4th year	<i>[Signature]</i>
13	Parth Kapadi	12102030601006	4th year	<i>[Signature]</i>
14	Parth Bhavsar	12102030601007	4th year	<i>[Signature]</i>
15	Sanskar Thakor	12102030601008	4th year	<i>[Signature]</i>
16	Mann	12202030403007	4th year	<i>[Signature]</i>
17	Adi Kadri	12202030501001	3rd year	<i>[Signature]</i>
18	Jay Bharat Patel	12202030501003	3rd year	<i>Ab</i>
19	Alain Kadri	12202030501004	3rd year	<i>[Signature]</i>
20	Nanda Devansh	12202030503001	4th year	<i>[Signature]</i>
21	HITENKUMAR SOLANKI	12202030503004	4th year	<i>[Signature]</i>
22	Thakor Kanan Chandrakantbhai	12202030503005	4th year	<i>[Signature]</i>
23	GOHIL MALAYRAJSINH RAJENDRASINH	12202030503006	4th year	<i>[Signature]</i>
24	Mojidra Meet Alpeshkumar	12202030503008	4th year	<i>[Signature]</i>
25	Poojan kapdi	12202030503009	4th year	<i>[Signature]</i>
26	Tejash Patel	12202030503011	4th year	<i>[Signature]</i>
27	Yash Jethwa	12202030503012	4th year	<i>[Signature]</i>
28	Yash tank	12202030503013	4th year	<i>[Signature]</i>
29	Dharmik yatinkumar desai	12202030503014	4th year	<i>[Signature]</i>
30	Hadiya dhairya Nilesh	12202030603001	4th year	<i>[Signature]</i>
31	Rana Nihar P	12202030603003	4th year	<i>[Signature]</i>
32	Vrutansh solanki	12202030603004	4th year	<i>[Signature]</i>
33	Aastha lakhlani	12302030503001	3rd year	<i>[Signature]</i>
34	Aditya Panjnathia	12302030503002	3rd year	<i>Ab</i>
35	Dhaval	12302030503004	3rd year	<i>Ab</i>
36	Patel Kenil	12302030503005	3rd year	<i>[Signature]</i>
37	Shah Kruti	12302030503006	3rd year	<i>[Signature]</i>
38	Urnang	12302030503007	3rd year	<i>[Signature]</i>
39	Nisarg Ayer	12302030503009	3rd year	<i>Ab</i>
40	Jaykumar Dilipbhai parekh	12402030503005	2nd year	<i>[Signature]</i>
41	Jaiswal Karan	12402030503007	2nd year	<i>[Signature]</i>



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KERAKOLL PRIVATE LIMITED

Attendance of Industrial Visit to Kerakol

42	Meghal Prajapati	12402030603002	2nd year	Meghal
43	Prajapati Rohit Navinbhai	24ACLD02	2nd year	Rohit
44	PRACHI PATEL	24ACLD04	2nd year	-Ab-
45	Jeel Patel	24CLD401	2nd year	-Ab-
46	Padhiyar Nilesh	24CLD402	2nd year	Ab
47	HET DODIYA	24CLD404	2nd year	Net

Photographs:



Event organized by: Dr. Khadeeja Priyan
 Name & Sign: [Organizing Secretary]:
 Department: Civil Engineering Department