



**G.H.PATEL COLLEGE OF ENGINEERING & TECHNOLOGY,
Vallabh Vidyanagar**



**Department of Electronics and Communication
Engineering**



INDUSTRIAL VISIT REPORT

NAME OF THE INDUSTRY: REXTRON CERAMICS PVT LTD

DATE: 2ND MARCH, 2020

**VENUE: SURVEY NO. 475, MORBI - JETPAR ROAD, NEAR
BLACKBERRY CERAMICS, AT. JASMATGADH, GUJARAT 363642.**

NO. OF STUDENTS PARTICIPATED: 36 (Second Year EC Students)

FACULTY MEMBERS:

Prof. Rohit Parmar

Dr. Sameer Trapasiya

Prof. Parthesh Mankodi

Dr. Krupal Parikh

After visiting Nexion International Pvt Ltd. the second industry planned was Rextron Ceramics in post lunch session.

Rextron Ceramics Pvt Ltd is a large capacity Digital wall tiles manufacturing unit in Morbi, India Located at the heart of ceramic activity in India, it has a very strong strategic advantage to succeed. The founders, being the management of Senso Vitrified Tiles, give a distinct benefit of experience to the group.

The top management of the company has been through all the challenges of the industry since 2007 and hence has the exposure to make Rextron a huge success. With efficient support from the young and dynamic executives' team the company can be positive about meeting their vision of leadership in the coming years.

Established with zeal to make homes and offices more beautiful and lavish, our tiles are stylish, contemporary and suit the changing needs of Indian as well as the global consumer. People in our design department work round the clock in their state of the art design equipment to make sure the digital tiles that adorn your walls are awe inspiring and world class.

The machinery and the equipment of the company form a perfectly balanced production system of imported as well as Indian technology. The imported machines are from Italy and China with the Digital printing machine being the heart of the production line. The Indian machines are procured from strong reliable machine suppliers.

The production facility is the latest available in the Indian manufacturing scene presently. It promises to deliver fast production of high quality digital wall tiles.

There are 5 steps in the ceramic tile manufacturing process: Mining, Blending and Mixing, Pressing, Glazing, and Firing.

Step 1 is basic and organic. The process begins with the mining of the raw materials, which is a mixture composed of mostly clay and minerals.

Step 2 transforms mud into fine sand. The clay and mineral mixture is blended and mixed into a semi fine powder.

Step 3 sees a form take shape. Next, the clay is pressed or formed into a tile shape. These pressed tiles are called green tiles at this stage.

Step 4 is the glaze phase. It's the next step in the manufacturing process for those tiles that will have a glaze. If the tile is to remain unglazed it skips this step and goes directly to the firing kiln. The glaze liquid is prepared from a glass derivative called frit and colored dyes. The glaze is applied by either a high-pressure spray or is poured directly onto the tile.

Step 5 really heats things up. The ceramic tiles are now fired in the kiln at temperatures around 2000 degrees Fahrenheit. Tiles that are fired once after the glaze is applied are called monocoturra tile or single fired. The other type is called biocuttura or double fired tile.

Quality Control: Most tile manufacturers now use statistical process control (SPC) for each step of the manufacturing process. Many also work closely with their raw material suppliers to ensure that specifications are met before the material is used. Statistical process control consists of charts that are used to monitor various processing parameters, such as particle size, milling time, drying temperature and time, compaction pressure, dimensions after pressing, density, firing temperature and time, and the like. These charts identify problems with equipment, out of spec conditions, and help to improve yields before the final product is finished.

The final product must meet certain specifications regarding physical and chemical properties. These properties are determined by standard tests established by the American Society of Testing and Materials (ASTM). Properties measured include mechanical strength, abrasion resistance, chemical resistance, water absorption, dimensional stability, frost resistance, and linear coefficient of thermal expansion.

After the factory visit session students interacted with company person working at Rextron at the end and with the thanks note from Prof. Rohit Parmar and Group Photo visit ended at around 03:30 pm. This visit was supported by ISTE student branch of GCET.

PHOTOGRAPHS





**Department of Electronics & Communication Engineering
G. H. PATEL COLLEGE OF ENGINEERING & TECHNOLOGY, VALLABH VIDYANAGAR
(A Charutar Vidya Mandal Institution)**

SIGNATURE LIST



Place of visit: REXTON CERAMICS PVT. LTD.
 Date of visit: 02/03/2020
 EC 2nd YEAR STUDENTS
 SIGNATURE LIST FOR INDUSTRIAL VISIT



SR. No.	ENROLLMENT NO.	NAME OF STUDENT	SIGNATURE OF STUDENT
1	180110111001	BHADJA HET PRANJIVANBHAI	<i>Het</i>
2	180110111002	BHANKHAR TANVI ANILBHAI	<i>Tanvi</i>
3	180110111003	AKSHAY MAHESHBHAI BHATT	_____
4	180110111005	MUNIRA TAHERI CHALLAWALA	<i>Munira</i>
5	180110111006	SNEH CHOKSI	<i>Sneh</i>
6	180110111007	BHRUGU SANJAY DAVE	<i>Bhrugu</i>
7	180110111008	DOMADIYA DRASTI BHIKHABHAI	<i>D. S. Domadiya</i>
8	180110111009	FALDU VASU RAJESHBHAI	<i>Faldu</i>
9	180110111010	VIKAS GADIA	<i>Vikas</i>
10	180110111011	GAUTAM BALLABH MAITHANI	<i>Gautam</i>
11	180110111012	JADEJA AJAYSINH KIRIT'SINH	<i>Ajaysinh</i>
12	180110111013	PARTH VIPULBHAI KALARIYA	<i>Parth</i>
13	180110111014	HARSHIL KAMDAR NITESHBHAI	<i>Harshil</i>
14	180110111015	ANUPAM MANOJKUMAR KANUNGO	<i>Anupam</i>
15	180110111016	JANKI M. KOTHARI	<i>Janki</i>
16	180110111018	MAVLI AKIB HABIBULLAH	<i>M. A. H</i>
17	180110111019	JAYNIL PARESH PANDYA	<i>Jaynil</i>
18	180110111020	PATEL ABHISHEK RAJESHBHAI	<i>Abhishek</i>
19	180110111022	PATEL MONIK NIRAVKUMAR	<i>M. N. P.</i>
20	180110111023	NANDANI BHAVINKUMAR PATEL	<i>Nandani</i>
21	180110111024	PATEL NIKUL MUKESHBHAI	<i>Nikul</i>
22	180110111025	VRAJ PATEL	<i>Vraj</i>
23	180110111026	PRAJAPATI KAIVALBHAI SURESHBHAI	<i>Kaival</i>
24	180110111028	KRUNAL RANA	<i>Krunal</i>
25	180110111029	RATHOD JAY NARESHBHAI	<i>Jay</i>

Department of Electronics & Communication Engineering
 G. H. PATEL COLLEGE OF ENGINEERING & TECHNOLOGY, VALLABH VIDYANAGAR
 (A Charutar Vidya Mandal Institution)



Place of visit: RETRON CERAMICS PVT. LTD.

Date of visit: 02/03/2020-

EC 2nd YEAR STUDENTS

SIGNATURE LIST FOR INDUSTRIAL VISIT



26	180110111030	GIRIRAJ SHAH	
27	180110111031	SHAH PRAPTI NILESHKUMAR	
28	180110111032	AVIRAL SHARMA	
29	180110111033	HARSH UMESHCHANDRA SHARMA	
30	180110111034	SHETH KALP	
31	180110111035	DIVYANG VANIK	
32	180110111036	DEEP JAGDISHBHAI VEKARIYA	
33	180110111037	VIRADIYA DHRUV KANJIBHAI	
34	180110111038	SUSHOBIT RAINA	
35	180110111039	VAIRAJ SHARMA	
36	180114111001	SADAF PANABI	
37	180114111002	EGBA GOODNESS	
38	180114111003	SATVIK VIRADIYA	
39	190113111001	SHAHMADAR M SHABIR	

NAME OF FACULTIES:

- DR. SAMEER TRAPASIYA
- PROF. ROHIT PARMAR
- PROF. PARTHESH MANKODI
- DR. KRUPAL S. PARIKH

Department of Electronics & Communication Engineering
G. H. PATEL COLLEGE OF ENGINEERING & TECHNOLOGY, VALLABH VIDYANAGAR
(A Charutar Vidya Mandal Institution)