

A Report on Industrial Visit at

# **Fairdeal Textile Park, Kosamba, Surat**

*Organized by*

***Training and Placement Cell***

**Department of Mechanical & Automobile Engineering**

*for*

**B-Tech Mechanical Engineering (5<sup>th</sup> Semester)**

Date of the Visit:

**24<sup>th</sup> August, 2016**

Faculty Coordinators

**Prof. Hiren Shah**

**Prof. Sandip Parmar**

**Dr. Chinmay Desai**

HOD – Mech/Auto Dept.

**Dr. N. C. Shah**

Director– CGPIT



**Chhotubhai Gopalbhai Patel Institute of Technology**

**Uka Tarsadia University, Bardoli.**

### Schedule of Visit:

Time		Location
To	From	
8:30 a.m.	-	Surat and CGPIT (Bardoli)
9:15 a.m.	-	Left from Kamrej
10:30 a.m.	-	Reached at Fairdeal Textile Park (Kosamba)
11:00 a.m.	02:00 p.m.	Visit of Different Units of Fairdeal Textile Park
02:00 p.m.	2:45 p.m.	Lunch at Fairdeal Textile Park
3:00 p.m.	-	Left from Fairdeal Textile Park.
5:00 p.m.		Surat and CGPIT (Bardoli)

**Total No of Visitors = 170** (161 Students + 09 Faculties)

#### List of Faculties:

- Mr. Lalaji Godhani
- Mr. Umang Patel
- Mr. Krunal Patel
- Mr. Haresh Ghoniya
- Mr. Bhargav Patel
- Mr. Mayur Patel
- Mr. Kapil Gohil
- Mr. Viral Nagar
- Mr. Mohammad Husain Shaikh

### About Fairdeal Textile Park:

Fairdeal Textile Park Pvt. Ltd. established on 1995. They are one of the primary dealer and easy to all types of fabric like cotton silk, brocade, crape and twil fabrics etc. Infused with the aim to deal in best quality category fancy fabric. Fairdeal Textile Park Pvt. Ltd. are the best product like of fancy fabric solutions provider within your reach. Today they are the authorized dealers of leading companies. They have made a continuous improvement in the supply of various genuine and trusted quality of fancy fabric to meet the ever increasing market requirements. The textile industry in Surat is mainly engaged in the activities of yarn production, weaving, processing as well as embroidery. Cotton is the world's most important natural fiber. In the year 2007, the global yield was 25 million tons from 35 million hectares cultivated in more than 50 countries. Faideal Textile Park concerned with the design and production of yarn, cloth, clothing, and their distribution.

The raw material may be natural or synthetic using products of the chemical industry. Faideal Textile Park was concern with textile machine, yarn and water treatment plant. Their main focus on the recycling of water and use again it for their purpose.

**Mr. Alpesh Patel** was guided for understanding of various technologies like water treatment plant, textile machines, Yarn Manufacturing and other machinery established by themselves.

## **Water Treatment Plant:**

Water treatment plants produce drinking water for public consumption or "industrial water" for manufacturing or other business operations. Treatment often involves some combinations of:

- Filtering out sediment and disease-causing organisms
- Chemical treatment to remove excess minerals and other contaminants
- Further settling or filtration
- Final disinfection and chemical adjustment to reduce scaling or corrosion within the delivery system



*Water treatment plan*

The Washington Department of Health is responsible for ensuring that the hundreds of local public drinking water facilities in the state provide drinking water that is safe and reliable. Water treatment plant operations often also produce wastewater that they must dispose of safely. In accordance with the federal Water Pollution Control Act and state Water Pollution Control laws, the Department of Ecology helps to ensure that the disposal of these wastewaters causes no harm to the environment.

## **Textile Machinery:**

In the 20th century, many developments and improvements were made in textile machinery production. Electronics, automation and robotics became the new trends which resulted in more productivity with less labor and operation costs. Today innumerable machines are there in the market for as basic a function as spinning to the most advanced function of decorating textile like embroidery.

## **Yarn Manufacturing:**

Yarn is a long continuous length of interlocked fibers, suitable for use in the production of textiles, sewing, crocheting, knitting, weaving, embroidery, and rope making. Thread is a type

of yarn intended for sewing by hand or machine. Modern manufactured sewing threads may be finished with wax or other lubricants to withstand the stresses involved in sewing. Embroidery threads are yarns specifically designed for hand or machine embroidery.



***Unit of Textile Machinery***



***Unit of Yarn Manufacturing***



***Mr. Alpesh Patel was explaining about the working and construction of textile machine***





***Lunch at Fairdeal Textile Park.***

Fairdeal textile industry provides the lunch facility in the campus of Fairdeal Textile Park. They also provide other facility to his employee as well as the visitors.



***Group photo at Fairdeal Textile Park***

***Special thanks to Mr. Yogesh Mistry, General Manager, Fairdeal Textile Park - Kosamba for organizing this industrial visit.***

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