



## A Report on Industrial Visit at “Spectrum Dyes & Chemicals Pvt. Ltd”

Chemical Engineering department had organized one day industrial visit for 3<sup>rd</sup> semester (2018 batch) students at Spectrum Dyes & Chemicals Pvt. Ltd., Palsana, Surat on 30-08-2019, where total 30 students took benefit from this industrial visit. Prof. Pranetal Patel and Mr. Bhavin Desai attended visit from department.



### OUTCOME OF THE ORGANISED INDUSTRIAL VISIT

Spectrum is one of the largest producers of Disperse Dyes in India. Having started its operation in the year 1991, Spectrum’s wide inventory of over 150 dyes, places it amongst one of the very few manufacturers catering to almost all commercially available Disperse Dyes. M/s. Spectrum Dyes & Chemicals is backed by a strong R&D, ECO Laboratory and backward integration, thereby making it open to new challenges.

Spectrum is located at Palsana, Surat District, Gujarat State, India. Spectrum delivers quality products of international standards to all customers. Spectrum maintains laboratories in touch with the modern developmental needs, manned by qualified technical personnel.



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Environmental care, Occupational Health & Safety of employees and product quality are the baseline strengths of Spectrum's business. These parameters have made Spectrum today, the supplier of preference for domestic and international customers. The assured quality of Spectrum products has continuously increased the demand of our products globally. Spectrum covers a wide band of area in the global arena including the South Asian Countries, Middle East Region Countries, USA & Central Americas. Spectrum desires to be in constant touch with the new players, in the area of exploring new markets and end users.

With a sustained growth rate, Spectrum has established a clear place for itself in business circles. Spectrum is well-regarded for services in the market in view of its alignment with quality, vision and care to serve. Together with its global partners, Spectrum proactively explores the frontiers of sustainable solutions in manufacturing.

## PRODUCT PROFILE:

Backed by a contemporary production facility, a modern comprehensive laboratory, Spectrum has developed the capability to manufacture almost all commercially available Disperse Dyes. Spectrum has over 150 dyes ex-stock at any point of time to cater to the instant needs of the customers. We solicit enquiries for all Disperse Dyes and are also open to manufacturing customized requirements, especially for those dyes that are challenging to synthesize

Product range includes the following:

### Luminous Series

We are the first manufacturer to commercially produce this range of dyes and are more known for the same worldwide. These dyes are an innovation as a result of our continual dedication towards our core strength – Research and Development.

- Fluorescent dyes for bright shade
- Can be used as illuminates in printing
- Robust to everyday processing variations
- Used for high visibility fabrics

### General Series

- General Series Dyes
- Based on Azo
- Special Type of Chromophore Range
- Covers Entire Gamut of shades



### **Anthraquinone Series**

- Based on Anthraquinone
- Selective dyes are suitable for Colour Discharge
- Good Light Fastness
- Good stability to pH

### **RD Series**

- Compact dyeing process, suitable for rapid dyeing.
- High bath exhaustion and complete diffusion
- High operational reliability
- Substantial savings in time, energy and chemicals

### **MD Series**

- Excellent bright shades.
- Very good build-up properties.
- High productivity through optimized rapid dyeing
- Excellent reproducibility and compatibility

### **XF Series**

- Designed for high wash fastness.
- Minimum staining to nylon
- Meets stringent washing fastness requirement
- Versatile application

### **HW Series**

- Designed for good all-round fastness
- Minimum staining to nylon
- Good thermomigration
- Low cross-staining and wide application in various blended fabrics.

### **List of equipment that students saw during the visit:**

- Coal based Boiler
- Reaction vessel
- Autoclave
- Clarifier