

**Industrial Visit**  
**To**  
**Spectrum Industries Private Limited**  
**&**  
**Educational Tour**  
**To**  
**Shimla, Shoghi**



Dated: 13<sup>th</sup> September, 2019- 16<sup>th</sup> September, 2019

Organized for

**BBA Students, TIAS**

**Tecnia Institute of Advanced Studies,**  
**Madhuban Chowk, Rohini, Delhi**  
NAAC ACCREDITED GRADE 'A' INSTITUTE



## REPORT

<b>Event</b>	: Industrial Visit & Educational Tour
<b>Date</b>	: 13th – 16th September, 2019
<b>Day</b>	: Friday to Monday
<b>Venue</b>	: Industrial cum Educational Tour to Spectrum Industry Private Ltd. Shoji and Shimla, Himachal Pradesh.
<b>Program</b>	: BBA, TIAS
<b>Resource Person</b>	: Mr. Rahul Sharma , HR Manager, Spectrum Industry Private Ltd .
<b>Faculty In charge</b>	: Dr. Leena Jenefa, Mr B.K Mishra, Faculty, TIAS

### **Objectives of Industrial Visit:**

- To help students gain firsthand information regarding functioning of the industry which presents the students with opportunities to plan, organize and engage in active learning experiences both inside and outside the classroom.
- To lessen the gap between classroom teaching and practical working environment
- To show students different opportunities within the industry,
- To help students to develop a love for nature

### **Introduction on Industrial Visit and Educational Tour:**

Tecnia Institute of Advanced Studies organized 3 nights & 3 days (stay) Industrial cum Educational tour from 13<sup>th</sup> –16<sup>th</sup> September 2019, for BBA students to Shimla and Spectrum Industry Private Ltd ,Shoghi . Students of BBA program participated in this tour along with two faculty members.



Spectrum Industry Private Ltd. Shoghi, Shimla



Spectrum Industry Private Ltd. Shoghi, Shimla



**BBA students of Tecnia Institute of Advanced Studies , Delhi visited Spectrum Industry private Ltd. Shoghi on 16.09.2019**



**BBA students of Tecnia Institute of Advanced Studies , Delhi visited the water storage Tank manufacturing unit in Spectrum Industry Private Ltd. Shoghi on 16.09.2019**



**BBA students of Tecnia Institute of Advanced Studies, Delhi able to understand the functioning of Bi-Axial rotomoulding Machine on 16.09.2019**



**Bi-Axial rotomoulding Machine**



**BBA students of Tecnia Institute of Advanced Studies , Delhi visited the water storage Tank manufacturing unit in Spectrum Industry Private Ltd.Shoghi on 16.09.2019**

## **Shimla**

Shimla is called as Queen of Hills, It is situated at an altitude of 2215 meter above the sea level. Shimla, is the capital and the largest city of the Indian state of Himachal Pradesh. Shimla is also a district which is bounded by the state of Uttarakhand in the south-east, districts of Mandi and Kullu in the north, Kinnaur in the east, Sirmaur in the south and Solan in the west. Shimla city was dense forest during the 18th century. The only civilisation was the Jakhoo temple and a few scattered houses. Local hangouts like the Mall and the Ridge are in the heart of the city. Most of the heritage buildings in the city are preserved in their original 'Tudorbethan' architecture.

## **History of Shimla**

In 1804 the Gurkhas , who had suffered a severe defeat at the hands of the Sikhs at the battle of Kangra, a hill fortress about sixty miles from Shimla, where according to some accounts they lost thousand of men in the fight and many others from disease, commenced to ravage the states and hills surrounding Shimla. Gurkhas built many forts around Shimla. By 1808 the invaders had conquered all the fortified posts between the Jamuna and Satluj, and from their capital Arki began their ruthless rule over the neighbouring hill states, untill at length the people in their wretchedness appealed to the British for help. A small British force under Major General 'Sir David Ochterlony' was despatched to liberate the hill men from Gurkhas. The rivals were engaged in the toughest battle at 3750 ft high Ramgarh fort at Nalagarh. A decisive battle took place near the fort at Malaon in which superior guns of the British overpowered the enemy. The battle of Malaon on 15th May 1815 ended the dream of the Gurkhas, to rule over this part of the land for any longer. After few days, an official declaration was made according to which all Chieftains who had joined British in expelling the Gurkhas were restored with their land under the British protection. The maharaja of Patiala who has also rendered invaluable services to the British was rewarded with land in the neighbourhood of the area now comprising Shimla. After the defeat of Gurkhas they were forced to sign the 'Treaty of Sanjauli' . The company retained the strategic forts of Sabathu, Kotgarh, Ramgarh and Sandoch.

## **Shoghi**

Shoghi is a small town located at an elevation of 5700 ft in the state of Himachal Pradesh. Situated at a distance of about 13 km from the district of Shimla, this town is one of the popular

hill stations in the state. The small town of Shoghi, bounded by oak trees and rhododendrons, is known for its natural beauty. The place is also famous for locally made fruit products like juices, jellies, syrups and pickles.

### **Tourist Places in and around Shoghi**

Shoghi is also known as the temple town as there are several old temples situated in the region. The recently renovated Hanuman Temple, the Kali Temple and the Tara Devi Temple are the popular religious centres of the place. Shoghi is easily accessible via the different modes of transports, such as air, rail and road. The nearest domestic airport to Shoghi is the Shimla Airport in Jubbarhatti, situated at a distance of about 21 km from the town. The Indira Gandhi International Airport (IGI) in Delhi is the closest international airbase. Kalka is the closest major railway station to Shoghi and is connected with most of the major Indian cities.



**View of Shimla**

### **History of Shoghi**

The history of Shoghi dates back to the 19th century, during the time of the Anglo-Gurkha War. On 15th May, 1815, the Gurkhas had to face defeat in the war of Malaon at the hands of Chieftains. The British and the Chieftains together then forced the Gurkhas to sign the Treaty of Sanjauli, according to which, the areas under the Gurkha rule were returned to the original rulers.



Later on, the entire region, including Shimla, was gifted to the Maharaja of Patiala by the British in return for his continued services.

### **The Itinerary:**

#### **13<sup>th</sup> September (Friday)**

All students who participated in the Industrial Cum Educational trip, gathered at the college premises at 8:00 PM. The students boarded the bus in which their seating & travelling arrangements had been made. The bus departed for the destination at 10:00 PM. Overnight travel to Shimla . This kind of activity develops the Managerial qualities like Punctuality of Time, Co-ordination of activities and Integrated Communication among the students and the faculty members.

#### **14<sup>th</sup> September (Saturday)**

The students got an opportunity to interact with the shop-keepers in mall road and the local people in Shimla. They learned about the history of that place, the culture of the local people apart from understanding the uniqueness of the traditional products like- Shawls, Home-decoration items etc. which are available aplenty in the mall road market. This demonstrates the utility of understanding the cultural environment of the Business.



**Understanding Cultural Environment in Mall road ,Shimla**

### **15<sup>th</sup> September (Sunday)**

On this day, the students moved out for the Shoghi to see the amidst an emerald pine forest. It is 18 kms before Shimla. Here, students learnt that many exciting adventure and activity based outbound training and team building programs by certified outdoor instructors. The students experienced the natural bliss of the surroundings and the importance of being disciplined & cautious on such an adventurous activity.



**Rock Climbing in Shoghi**



**BBA students of Tecnia Institute of Advanced Studies , Delhi in Shoghi on 15.09.2019**

**16th September (Monday)**

**Spectrum Industry Private Limited**

The students visited the production unit in Spectrum Industry Private Ltd. Shoghi. They are manufacturing Water Storage Tanks using raw material in highly advanced Bi-axial rotational molding machines. The Students were explained about the manufacturing process by the support staff of the company.

**Products and Its Application**

A water tank is a container for storing water. Tanks were used to provide storage of water for use in many applications, drinking water, irrigation agriculture, fire suppression, agricultural farming, both for plants and livestock, chemical manufacturing, food preparation as well as many other uses.

**Manufacturing Process**

Rotational Moulding is a process for producing hollow seamless containers of all sizes and shapes. The process does not involve high injection pressure or high shear rates. Black polyethylene powder of 35 mesh is weighed and charged in the mould. The mould is heated while it is being rotated about two perpendicular axes. Simultaneously a porous skin is formed on the mould surface which gradually melts as the heating cycle progresses. At the end of heating cycle a layer of homogenous uniform thick wall is formed. The mould then enters a cooling station where forced air/water spray cools the mould. It is then positioned in a work zone where the mould is opened, the tank is removed and the mould is recharged for next cycle.

**The Processing Unit:**

The rotational moulding process for manufacturing water storage tank consists of the following major process steps.

1. Loading of raw material
2. Moulding of the part
3. Cooling or curing
4. Unloading of finished part Cycle time generally varies from 6 to 10 minutes.

Cycle as low as 2 minutes can be achieved and extremely large part with heavy wall requires 15 minutes for each moulding cycle.

**Machinery Used**

Bi-Axial rotomoulding Machine, Scrap Grinder, Testing Equipment & Other Accessories, Cost of Moulds & Dies and Office Equipment/Furniture/Computers etc.

### **Raw Material Used**

LLDPE

Master batch black

LPG Industrial gas

The students also had very productive interaction with Mr. Rahul Sharma the HR Manager, who had been very co-operative and kind. The students learned about process layout and product layout. Students boarded the bus for a return journey to Delhi in the afternoon.



Students interacted with Mr Himanshu and Mr. Rahul Sharma HR regarding clarification in Spectrum Industry Private limited

### **Learning out come**

Students have learnt about

- various domain of companies/industries

- how to solve the real world challenges
- innovative practices prevalent in industries/companies
- ways to correlate with class room concepts with actions
- to make effective decisions
- to develop a framework of consistent ethics and values that guides their daily lives.
- to develop an intellectual curiosity and desire for continual learning both within and beyond formal education.

### Student's Feedback Analysis:

It was a great learning experience to visit the Shimla and Spectrum Industry Private Limited Shoghi for the students and they got real-time experience of the Production techniques. This industrial visit was very fruitful for the students as it gave them the opportunity to have a practical knowledge of what has been included in the curriculum. Following are the Analysis of the student's Feedback:

Summary sheet of Feedback Analysis												
Particulars	Objectives	Topic	Relevance	Industry application	Presentation	Creativity	analytical / tech	knowledge component	Query session	Overall environment	Learning outcome	Total
Not Acceptable						1			1			2
below average							1	2		1	1	5
Average	1	2	2	2	2	3	2		1	1	2	18
Good	13	3	12	12	10	9	10		9	11	9	98
Outstanding	6	15	6	6	7	7	6		9	7	8	77

### Interpretation of the result:

A careful study of the feedback analysis leads to the following Interpretation:

- Out of 20 feed- back received from the students, Majority of the students with regard to the “objectives of the tour”, “Industrial Objective”, “Presentation by the resource person”, “Creativity enhancement”, “Analytical /Technical skills”, “Knowledge component”, “Interpersonal Skills and Query session handling”, “Overall environment” and “Learning Outcome”, were good.

- Positive opinion about the Industrial Visit cum Educational tour and called it an outstanding experience of their lives.
- The students found the Industrial visit cum Educational Tour, very Productive, Creative and full of Learning Experiences.
- This Industrial visit cum Educational Tour was in line with the Relevancy and was well acknowledged by the students.

**Faculty In-charge who accompanied the students during the visit:**

**Dr. Leena Jenefa:** The objective of the Industrial tour was to understand the sustainable development of such a production based industry. It gave students an exposure to know the different functions of a production unit of water storage tank manufacturing industry. The students must be encouraged & motivated for such type of industrial tour as it helps to sharpen their acumen for project based learning. Such a tour is very helpful to develop an intellectual curiosity and desire for continual learning both within and beyond formal education. The services provided by the tour operator in the arrangements of hotel rooms, food and transportation during the tour were good.

**Annexures Photo**



**Hotel The Grand White By Parfait**



**Tecnia Institute of Advanced Studies Students enjoying their Lunch in Hotel The Grand White By Parfait**



**Tecnia Institute of Advanced Studies Students enjoying their Lunch in Hotel The Grand White By Parfait**





**Hotel Park Woods Shoghi**

