

ISEP-2007 REPORT

The individual exposure to *Youngor Woolen Dyeing and Finishing Mills. Ningbo, China* given a new charm and courage to my professional knowledge about wool.

I am very much thankful to **International Wool Textile Organization, Brussels** and **Australian Wool Innovation Limited, Australia** who took trouble for converting my traineeship dream to real.

First of all I owe deep gratitude to **Mrs. Marzena Oscilowska** (Project Consultant) **IWTO** who have cooperated me time to time right from preparation to wind up of traineeship program. She solved my each and every problem.

I am heartily thankful **Mr. Jing Zhau Hui** (Director), **Mrs. Cheryl** of Youngor Woolen co ltd for extend traineeship facility to me.

I am also thankful to **Mr. Xu Hong Zhau** (Vice Manager) who was always with me during whole traineeship period and helped me regarding Chinese into English translation and made my traineeship comfortable and thankful to all workers, who in spite of their busy work snatched some time to furnish me with valuable information and guidance.

As **Youngor Woolen** is manufacturing finest suiting fabric with lots of variety so I decided to take knowledge of every department.

I started my traineeship from raw material go down.

❖ **Raw Material Godown:-**

Here I learnt how to procure raw material based on the characteristics required. Also studied the fibres storage method like merino wool, mohair, etc according to their microns.

❖ **Top Dyeing:-**

- ✓ Here I got knowledge about wool top dyeing process.
- ✓ Machine parameters for particular sort.
- ✓ Sample dyeing process.
- ✓ Bulk dyeing process.
- ✓ Deferent recepies of dyeing.
- ✓ Also maintenance of dyeing machines.

Also studied problems occur in dyeing and their remedies.

❖ **Recombing process: -**

- ✓ Setting of draft, speeds, roller distance according to fibre length.
- ✓ Studied blending of tops/slivers
- ✓ Worked with operators and learn how to handle the machine.
- ✓ Quality checks points.
- ✓ Maintenance of various parts.

❖ **Spinning process: -**

Here I got opportunity work on modern machines like Congnitex, Suessen, Schlafhorst etc. I got depth knowledge about machine parameters to obtain good quality yarn. I also concentrated on precautions taken during special fibre like mohair, spandex etc. also studied winding machines, conditioning technology and doubling of single yarn.

I also tried to troubleshoot some machine failures occurred during my traineeship which was good experience to me.

I also got opportunity to discuss with Mr. Russello from M/s cognitex, Italy.

❖ **Weaving preparatory: -**

- ✓ I worked on Benninger modern sectional warping machine which I never seen before.
- ✓ So I studied this machine in every aspect.
- ✓ Also I studied the sections density according to ends density in beam.

❖ **Sampling: -**

- ✓ Here I saw new sampling machine from Japan. Which I never seen before.
- ✓ I learn the software of this machine to set the patterns.
- ✓ Also studied the machine mechanism.

❖ **Weaving: -**

- ✓ It was good experience to work in weaving department. Here I learnt each and every operations regarding fabric manufacturing. I worked on Smit weaving machines. I
- ✓ I discussed various methods with senior technicians and share my knowledge.
- ✓ Also studied various key parameters while style changing on loom.
- ✓ We all together tried to increase the efficiency of weaving department by minimizing the downtime.

❖ **Processing:-**

- ✓ In processing department I expose to various finishes like Nano finishes, easy care finish etc. which was new to me.
- ✓ Here share knowledge with Mr. Mathew finishing engineer from Italy.
- ✓ I studied various after finishing treatments.

❖ **Quality control: -**

- ✓ Youngor having state of art testing machines.
- ✓ I studied *AL 200 wool length tester* which I have studied in books. It added good knowledge about wool fibre length characteristics.
- ✓ I studied *Laser Scan machine* from WoolMark, wool micron testing machine. Which I never saw before. While studying this machine I got opportunity to key discussion with **Mr. Peter** and **Mr. Churchill** from **WoolMark, UK**. They clarify my all doubts regarding laser scan machine.
- ✓ I also got opportunity to study deferent testing instruments for controlling quality of wool fabric.

- ✓ I carried out some of testing of fibre, yarn and fabric on various machines which built a enormous confidence regarding wool knowledge.
- ✓ I also studied the various chemical testing like shrinkage, fastness etc.
- ✓ I am sure this will help me in my wool industry career.

❖ ***Product design and development:-***

In this department I learnt a lot regarding wool product development, its process and implementation.

- ✓ In this department I got opportunity work with Mr. Takaji Japanese design Engineer, he was a very experienced person in the field of wool fabric designing.
- ✓ He taught me new method of fabric designing, which was based on Italy technique. Which I never studied during my graduation or working. I learnt many mathematical modules to design particular wool fabric for particular end use.
- ✓ Really this is a rare stuff with me.
- ✓ I also designed some fabrics based on that technique.
- ✓ I came across with design software especially for woven fabrics.
- ✓ I also studied how to set the yarn count, yarn twist, which fibre to be used according to end use, weaving cover factor, shrinkage values etc.
- ✓ It was good technical session for me in this department.

Apart from the traineeship I got opportunity to visit “**ShanghaiTex 2006**” a textile machinery exhibition. I always read regarding “ShanghaiTex” textile exhibition in the magazines but this time I personally visited the same. I saw many new technologies in the field of textiles and share thoughts with exhibitors. So it is lifetime opportunity for me to visit an international exhibition.

Due to efforts of Mr. Xu Hong I also visited some good companies who are manufacturing cashmere garments and interacted with the technical persons.

Dear Madam

The ISEP-2007 provided me all knowledge about wool pipeline industry. Whatever the shortfalls I had before in wool knowledge, I fulfilled while working with this company.

Really I never expected that this exchange program will benefit me in all aspect. I also want to mention one thing that due international exposure my confidence level tremendously increased. This whole experience will definitely help me through out my technical career in wool pipeline industry.

Thanking you,

Yours truly,

A handwritten signature in black ink, appearing to read 'Amit A. Jadhav', with a horizontal line underneath the name.

Amit A. Jadhav

B.Text(Textile Technology)

India.

Date: - 22/11/2006