



**Faculty of Engineering
Department of Textile Engineering**

**REPORT ON
Industrial Attachment
At
Industrial Attachment at Innert Fabric &
Quilt Ltd.**

113/2, Eidgah Road, Pagar, Tongi, Gazipur-1710,
Bangladesh.

Course Title: Industrial Attachment

Course Code: TE-410

Submitted By

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of
Bachelor of Science in Textile Engineering.
Advance in Apparel Manufacturing Technology
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Letter of Approval

December 07, 2018

To

The Head

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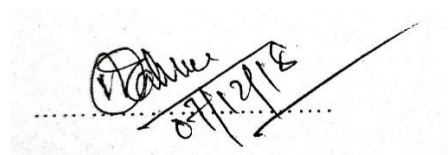
Subject: Approval of Industrial Attachment Report of B.Sc. In TE Program

Dear Sir

I am just writing to let you know that this report titled as “Industrial Attachment” has been prepared by the student bearing ID 151-23-4148 is completed for final evaluation. The whole report is prepared based on the factory data with required belongings. The student is directly involved in his industrial attachment activities and the report become vital to spark of many valuable information for the readers.

Therefore it will highly be appreciated if you kindly accept this report and consider it for final evaluation.

Yours Sincerely

A handwritten signature in black ink, appearing to read 'Mominur Rahman', is written over a horizontal dotted line. Below the signature, the date '07/12/18' is handwritten. A diagonal line is drawn across the bottom right of the signature area.

Mr. Md. Mominur Rahman

Assistant professor

Department of Textile Engineering

Faculty of Engineering

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DECLARATION

I hereby declare that the work which is being presented in this report entitled, “Industrial Attachment” is original work of my own, has not been presented for a degree of any other university and all the resource of materials uses for this thesis have been duly acknowledged.

Name: Md. Morshedur Rahman

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This is to certify that the above declaration made by the candidate is correct to the best of my knowledge.

Supervisor:



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I would like to thank our honorable course teacher & supervisor, **Mr.Md. Mominur Rahman, Assistant professor**, at Department of Textile Engineering, Daffodil International University for his helps, guidance and encouragement throughout the progress of the internship report. I am grateful for his kind advice and instructions.

I would like to thank **Md.Golam Rezaul Kibria**, Managing Director, Innert Fabric & Quilt Ltd and **Md. Abu Talave Majumder**, Head of Marketing & Merchandising, , Innert Fabric & Quilt Ltd for giving me such that opportunity. They gives me guide lines, suggestions & inspiration which very important for me.

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Chapter 1

EXECUTIVE SUMMARY

I performed my internship on **Innert Fabric & Quilt Ltd.** By achieving practical knowledge from the industrial attachment it is possible to apply the theoretical knowledge in the technical field. For any technical education, practical experience is almost equally necessary in association with the theoretical knowledge. The industrial attachment is the most effective process of achieving the practical experiences. I performed my internship on **Innert Fabric & Quilt Ltd.** which is situated on 113/2, Eidgah Road Pagar Tongi, Gazipur-1710, Bangladesh. The length of my training period during nearly two months. I was joined my training on **September 15, 2018** and it finished on **November 10, 2018**. In a short span the company received the recognition as one of the market leaders. The factory has Sampling, Cutting, Sewing, Ironing & Finishing, Quality and IE section etc. All of this sections help us to improve our knowledge.

Chapter 2

Information about factory

2.1 Introduction



Innert Fabric & Quilt Ltd. 113/2, Eidgah Road, Pagar Tongi, Gazipur-1710, Bangladesh



Garments and Textile sector is the largest and fastest growing sector in Bangladesh. Now a days it is also the highest foreign currency earning sector in Bangladesh. Due to smaller investment requirement in knit garment, it is growing very rapidly, greater backward linkage facility & higher profit than woven garments. So export of knit garments is increasing steadily for last few years and up to now.

Without industrial training textile education can't be completed, because this industrial training minimizes the gap between theoretical and practical knowledge and make us accustomed to industrial environment. I got an opportunity to complete industrial training at The Innert Fabrics & Quilt Ltd which is a 100% export-oriented garment Industry. It has well planned & very good ready-made garments manufactures factory.

2.2 History of the factory

Innert Fabric & Quilt Ltd. and Innert Sourcing Ltd. is a sister company of Innert group. They produce different product lines including women's wear, men's wear, kid's wear and Home Textile as well. Their factory has a total production space of around 35,000 SFT with 170 machines and with approximate production capacity of 150,000 pcs (Knit) or 80,000 pcs (woven) Garments per month. They make and supply youthful lifestyle brand offering smart, affordable and luxury garments. Supported by their growing infrastructure, experienced team and efficient time management Innert Group ensures the timely shipment of all of our products in the Global market. Besides, the business activities of Innert Group have been growing day by day under energetic leadership. They have a dedicated and skilled workforce which ultimate goal is to bring the latest development in clothing industry with quality apparels and supply to globally renowned retailers and is focused on upholding the reputation of the readymade garments and textiles industry of Bangladesh.

2.3 Founder & Executive director

The factory was founded by Md. Rezaul Kibria & Name of ED is Anwaruzzaman Azam. Though it was established 03 years ago, it has earned very good reputation for its best performance over any other ready-made garments.



Figure 2.3 Md. Rezaul Kibria



Figure 2.3 Anwaruzzaman Azam

2.4 General information about the factory

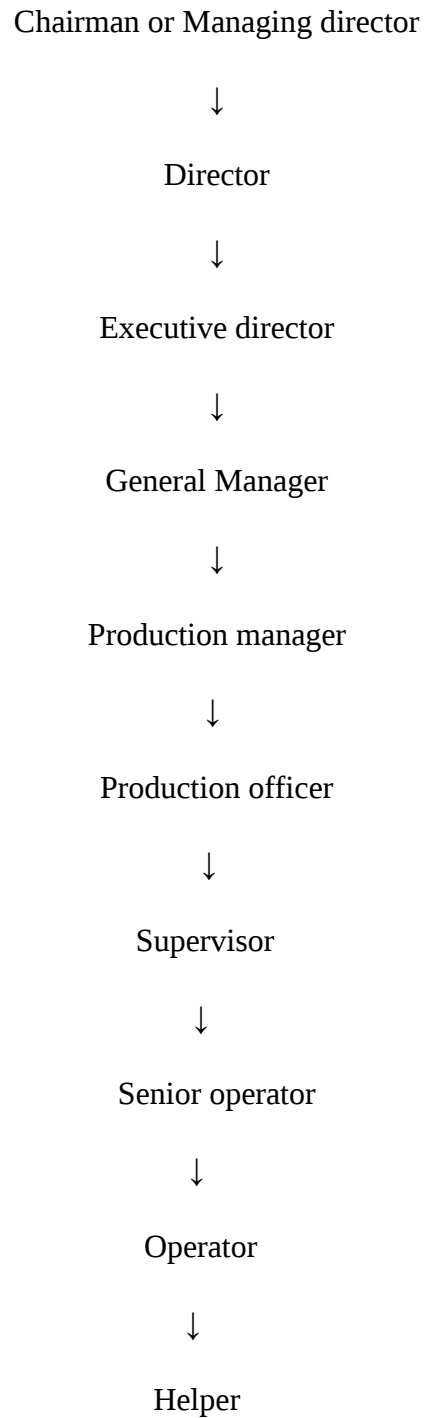
Innert Fabric & Quilt Ltd. and Innert Sourcing Ltd. is a sister company of Innert group. They produce different product lines including women's wear, men's wear, kid's wear and Home Textile as well. Their factory has a total production space of around 35,000 SFT with 170 machines and with approximate production capacity of 150,000 pcs (Knit) or 80,000 pcs (woven) Garments per month. They make and supply youthful lifestyle brand offering smart, affordable and luxury garments. Supported by their growing infrastructure, experienced team and efficient time management Innert Group ensures the timely shipment of all of our products in the Global market. Besides, the business activities of Innert Group have been growing day by day under energetic leadership. They have a dedicated and skilled workforce which ultimate goal is to bring the latest development in clothing industry with quality apparels and supply to globally renowned retailers and is focused on upholding the reputation of the readymade garments and textiles industry of Bangladesh

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2.6 Organogram

The organogram of the administration is as follows:



2.7 Sister concerns

- Innert Fabric & Quilt Ltd
- Innert Sourcing Ltd

2.8 Key products

- T-shirt
- Polo shirt
- Short pant
- Kids products
- Swimming shorts
- Jackets
- Hoody
- Ladies legging
- Bed sit
- Towel

2.9 Brief profile

They produce different product lines including women's wear, men's wear, kid's wear and Home Textile as well. Their factory has a total production space of around 35,000 SFT with 170 machines and with approximate production capacity of 150,000 pcs (Knit) or 80,000 pcs (woven) Garments per month.

2.10 Main buyers of the factory

Serial no.	Buyers name	Buyers logo
01	SCHOTT	
02	BENSHER MAN	
03	OLYMPUS	
04	PELLINI	
05	TAKKO	
06	DUKE	
07	KAM	

2.11 Mission of the Factory

At Innert Group, our customers & workforce are our asset. We believe in creating a differentiated customer service experience for all of our Buyers and become one of the leading garments manufacturers in Bangladesh in every aspect of its business and provide better quality products and services to our clients.

2.12 Vision of the Factory

To become the most successful, respected, innovative and highly reputed manufacturer of Garment in the International market by producing top quality product which conforms and surpasses the customer expectation.

Chapter 03

Description of the Attachment

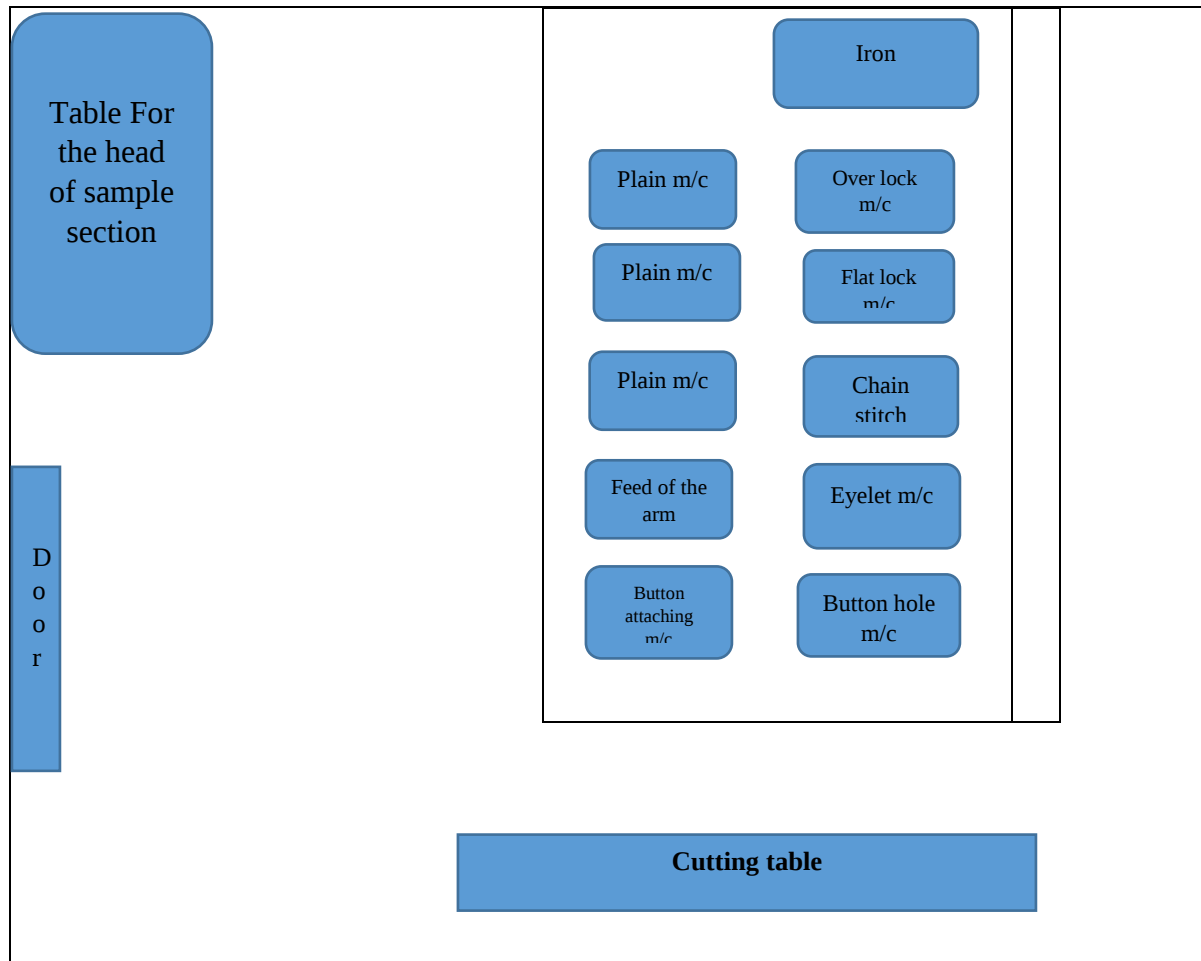
3.1 sample section

Sample section makes different types of sample. Such as Proto sample, Fit sample, Size set sample, Pre-production sample, Production sample, Shipment sample.

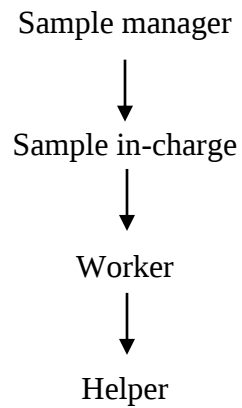


Figure 3.1 sample section

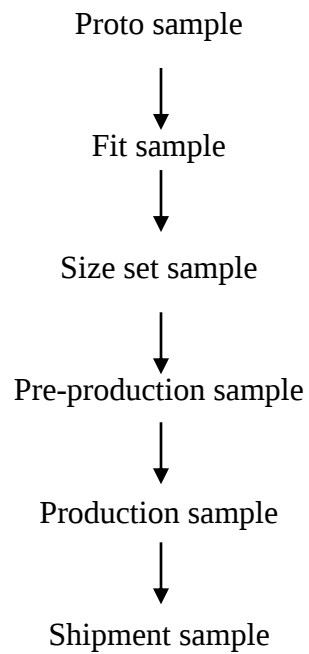
3.1.1 Lay out of Sample Section



3.1.2 Organogram



3.1.3 Process flow chart



3.1.4 Machineries

- Plain machine
- Over lock machine
- Flat lock machine
- Chain stitch machine
- Feed of the arm machine
- Button hole machine
- Button attaching machine
- Eyelet machine

3.1.5 Major operation carried out by the section

- Sample developing according to buyers demands.
- Different types of sewing is done
- Pattern making
- Cut fabric according to design

3.1.6 Quality control process

- Inspect the garments measurement before & after wash
- Inspect different types of garments faults
- Sample quality is controlled by a quality control officer

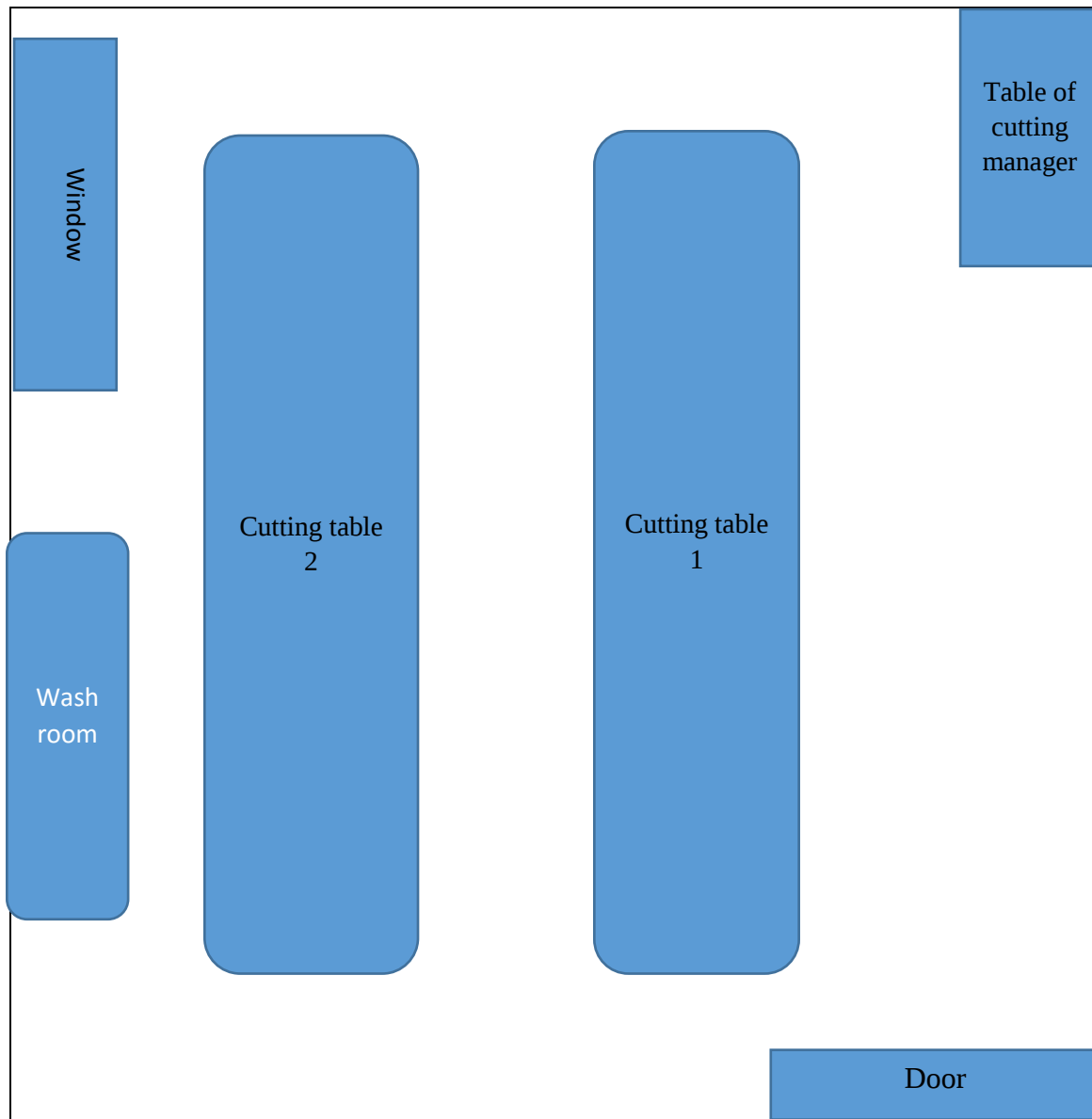
3.2 Cutting section

Cutting section mainly make the marker & cut the fabric lay for making the garments. They make marker before fabric spreading. After spreading fabric they cut the fabric and make bundles of them.

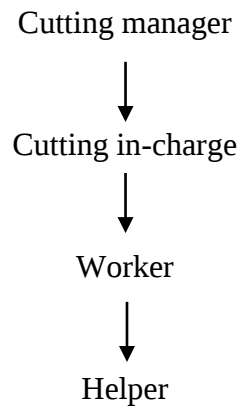


Figure 3.2 cutting section

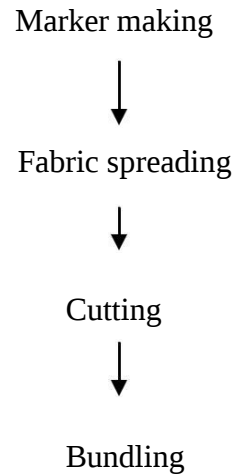
3.2.1 Lay out



3.2.2 Organogram of cutting section



3.2.3 Process flow chart



3.2.3.1 Marker making

Markers are layout of pattern pieces for fabric cutting. Marker is mainly made by two ways. Manual marker making & computerize marker making. In this factory they are making marker manually.



Figure 3.2.3.1 Marker making

3.2.3.2 Fabric spreading

Fabric spreading means spread the fabric lay one after another. It is mainly done by manually.



Figure 3.2.3.2 Fabric spreading

3.2.3.3 Cutting

Fabric spreading means spread the fabric lay one after another. It is mainly done by manually.



Figure 3.2.3.3 Cutting

3.2.3.4 Numbering

After cutting the fabric lay the cut part is numbering according their size. They divided different



Figure 3.2.3.4 Numbering

parts of garments like body part, sleeve, collar, cuff etc.

3.2.4 Machineries

- Cutting machine
- Scissor

3.2.5 Major operation carried out in this section

- Marker making
- Fabric spreading
- Cutting
- Bundling

3.2.6 Quality control process in this section

- Different types of cutting faults
- Grain line is checked
- Fabric edge
- Sample quality is controlled by a quality control officer

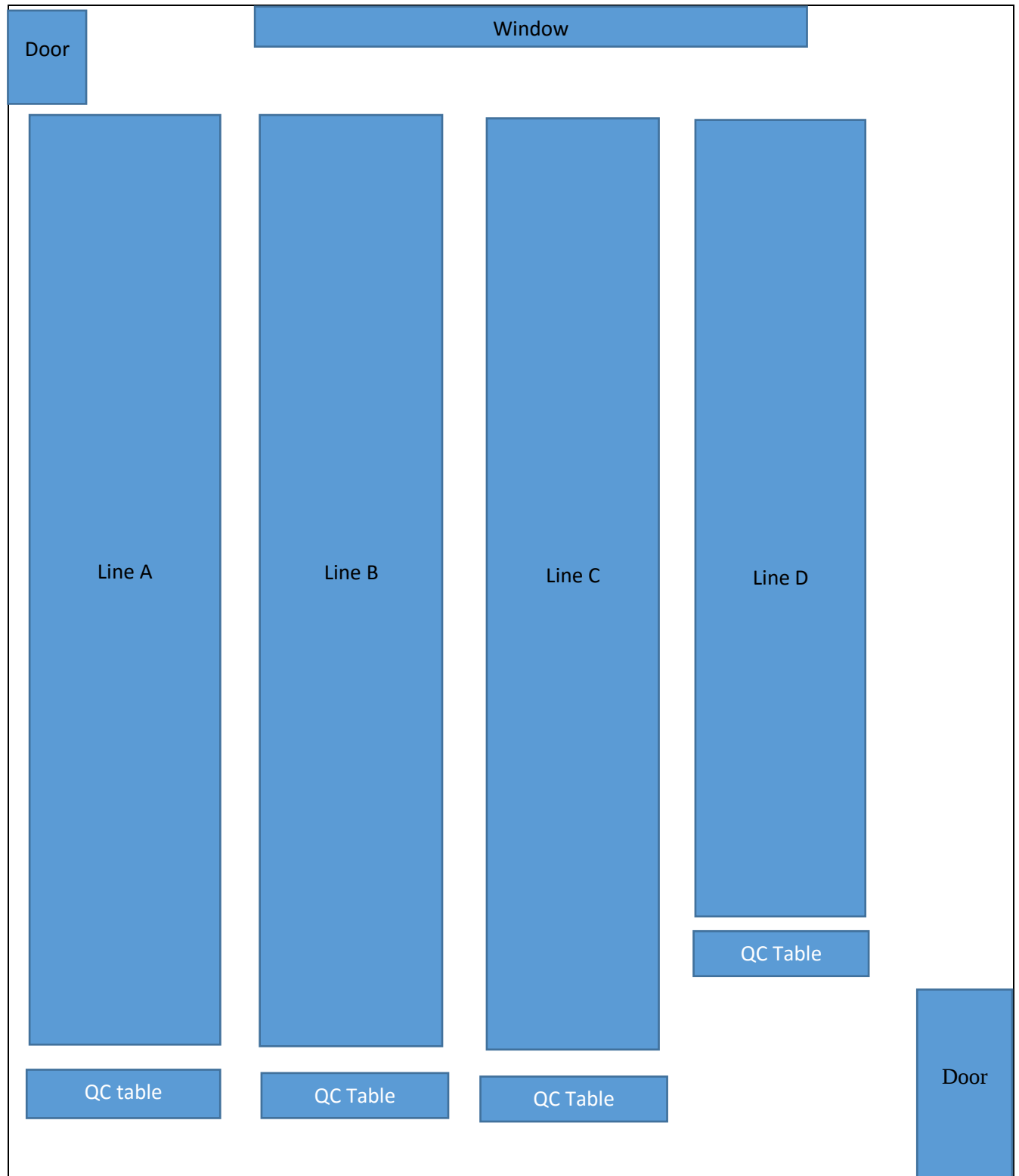
3.3 sewing section

Sewing section mainly joined different parts of garments by sewing with the help of different sewing machines.

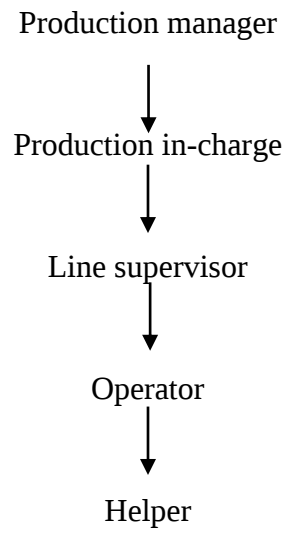


Figure 3.3 sewing section

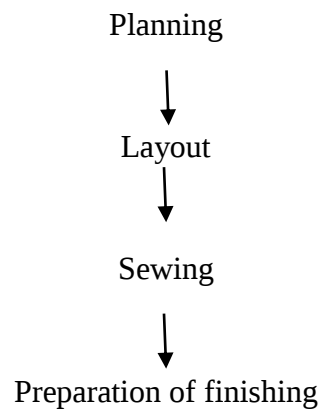
3.3.1 Layout



3.3.2 Organogram



3.3.3 Process flow charge



3.3.4 Machineries

3.3.4.1 Plain machine



Figure 3.3.4.1 Plain machine

Properties:

- One needle
- Two threads
- Bobbin
- Thread tensioner
- Thread guide
- Stitch controller
- Back stitch lever
- Hand wheel
- Feed dog
- Throat plate

Application:

- Bottom hem
- Side join
- Neck join
- Pocket join

3.3.4.2 Over lock machine



Figure 3.3.4.2 over lock machine

Properties:

- 2 needle for 5 thread
- 1 needle for 3 thread
- 4 tensioner
- 2 knife

Application:

- Shoulder join
- Cuff join
- Side seam
- Color piping

3.3.4.3 Flat lock machine



Figure 3.3.4.3 Flat lock machine

Properties:

- 2 needle for 5 thread
- 1 needle for 3 thread
- 4 tensioner
- 2 knife

Application:

- Body hem
- Sleeve hem

3.3.4.4 Chain stitch machine

Properties:

- One thread is used to interconnect each loop

Application:

- Pocket opening
- Basting
- Decoration purpose

3.3.4.5 Feed of the arm machine



Figure 3.3.4.5 Feed of the arm machine

Properties:

- 2 needle for 5 thread
- 1 needle for 3 thread
- 4 tensioner

Application:

- Shoulder join
- Neck piping

3.3.4.6 Button hole machine



Figure 3.3.4.6 Button hole machine

Properties:

- One needle
- One knife

Application:

- Make the button hole.

3.3.4.7 Button attaching machine



Figure 3.3.4.7 Button attaching machine

Properties:

- One needle

Application:

- Attached the button.

3.3.4.8 Eyelet machine



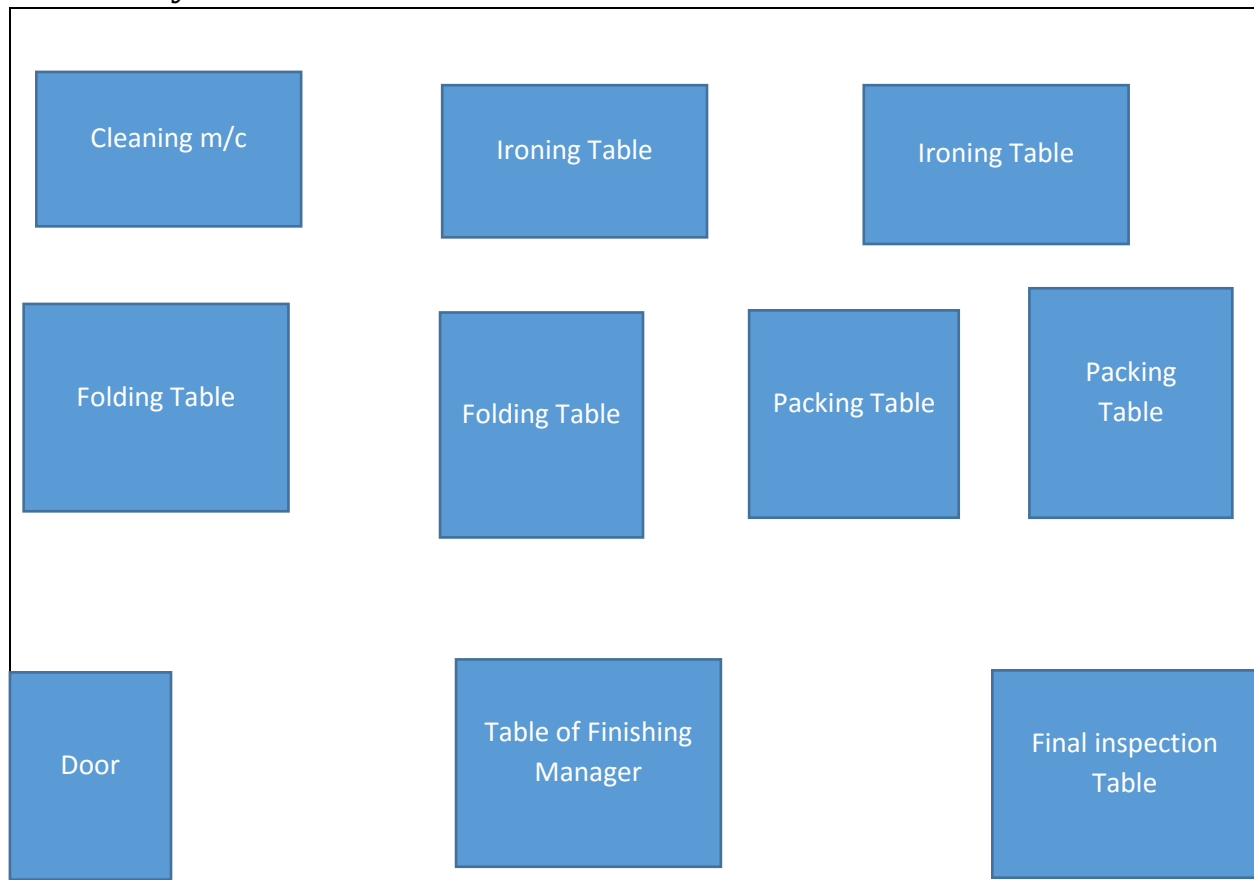
Figure 3.3.4.8 Eyelet machine

Application:

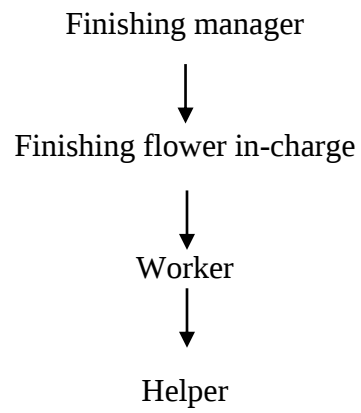
- Attached the eyelet

3.4 FINISHING SECTION

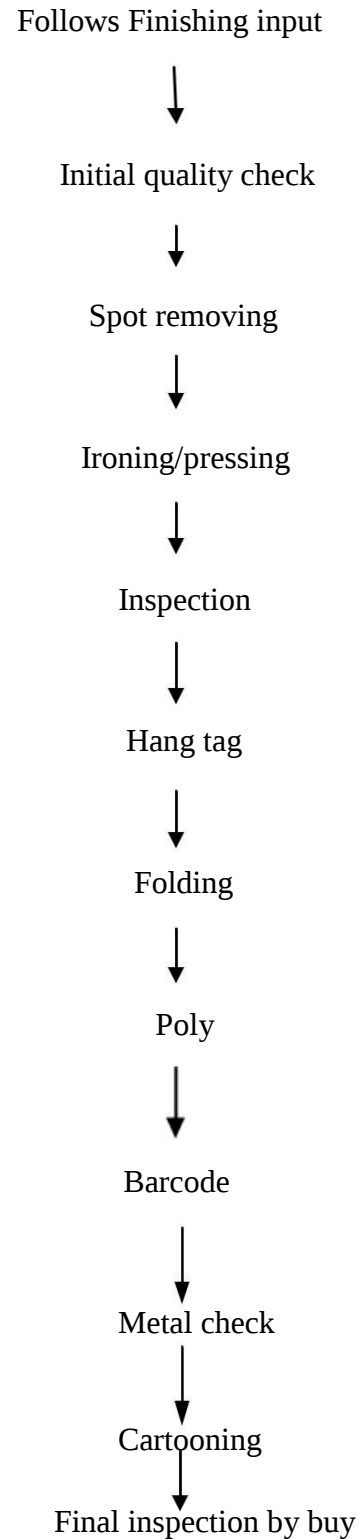
3.4.1 Layout



3.4.2 Organogram



3.4.3 Process flowchart



3.4.4 Machineries

- Cleaning machine
- Iron
- Tagging machine

3.4.5 Major operations

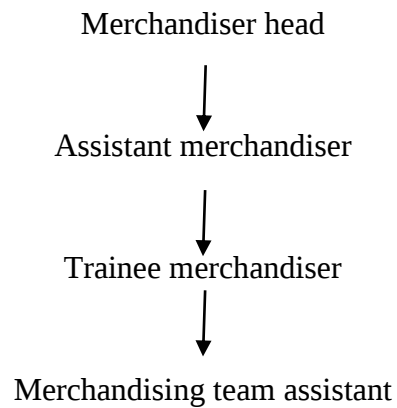
- Cleaning
- Ironing
- Tagging
- Folding
- Packing

3.5 Merchandising

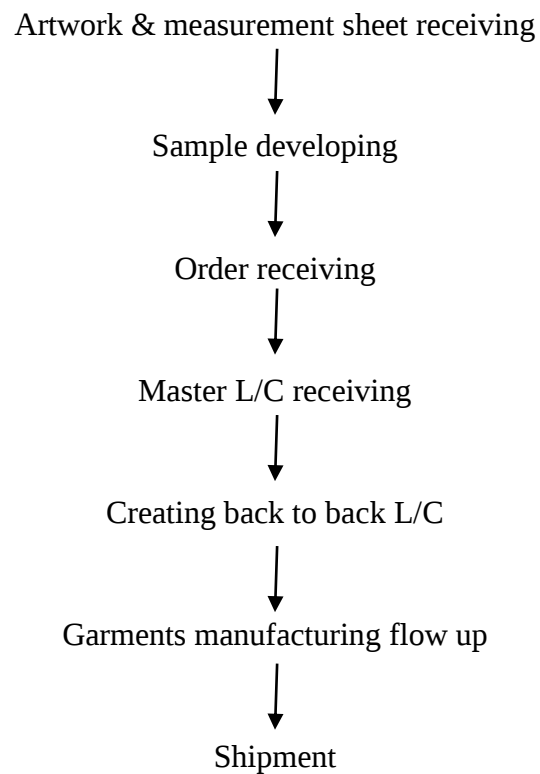
3.5.1 Layout



3.5.2 Organogram



3.5.3 Process flowchart



Chapter 4

Impact of internship

4.1 Sample Section

From sample section I have learned about-

- Different types of sample making
- Different types of pattern making

4.2 Cutting section

From cutting section I have learned about-

- Marker making process
- Fabric spreading system
- Cutting process of fabric lay
- Numbering process

4.3 Sewing section

From sewing section I have learned about-

- Process sequence of sewing section
- Different types of sewing machine
- Properties of sewing machine
- Application of sewing machine

4.4 Finishing section

From finishing section I have learned about-

- Different types of finishing process
- Packing system

4.5 Merchandising section

From merchandising section I have learned about-

- Process sequence of merchandiser
- Sample developing stages
- L/C & back to back L/C

Chapter 5

Conclusion

Industrial attachment program send us to the expected destiny of practical life. Through The completion of industrial attachment at **INNERT FARIC & QUILT LTD**, I have got the impression that the factory is one of the reputed readymade garments and textiles industry of Bangladesh. Though it was established 03 years ago, it has earned very good reputation for its best performance over any other ready-made garments. During my industrial attachment program I learn about working procedure of merchandising team, working procedure of sample section, working procedure of cutting & sewing section. My supervising officer also satisfied to us & offer co-operation in every steps. It is completely a new experience in my life, which will be very effective in my future service life. During my training period I realized that practical experience is most valuable for service life.