



Faculty of Engineering  
Department of Textile Engineering

**REPORT ON**  
**Study on Different Types of Sewing Faults and Their Remedies**

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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

April, 2018

## Letter of Approval

12-04-2018

To

The Head

Department of Textile Engineering

Daffodil International University

102, Shukrabad, Mirpur Road, Dhaka 1207

Subject: Approval of Project Report of B.Sc. In TE

Dear Sir,

I am simply writing to tell you that this task report titled as "Study on Different Types of Sewing Faults and Their Remedies" has been set up by the understudy bearing ID 152-23-4410 and 152-23-4436 is finished for definite assessment. The entire report is readied in light of the best possible examination at Active Composite Mills Ltd and Vintage Denim Ltd. Furthermore, intrusion through basic examination of observational information with required possessions. The understudy were straightforwardly associated with his undertaking exercises.

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

Yours Sincerely

Mohammad Abdul Baset

Assistant Professor

Department of Textile Engineering

Daffodil International University

## ACKNOWLEDGEMENT

Above all, first we thanks to Almighty Allah who gives us ability and power to complete this thesis and research work. With sincerity, we extend our warm and deep appreciation and gratitude to our supervisor, **Mohammad Abdul Baset, Assistant Professor**, Department of Textile Engineering of Daffodil International University for his guidance and support to come up with this research work. Been working with him, we have not only earned valuable knowledge, but was also inspired by his innovativeness which helped to enrich our experience to a greater extent. His ideas and way of working was truly remarkable. We believe that this research could not be finished if he did not help us continuously.

We would like to express our heartiest gratitude to ‘**Prof. Dr. Engr. MD. Mahbubul Haque**, Head of the Department, Textile Engineering of Daffodil International University’ for his kind help to finish our project and also to other faculty members and the staffs of ‘TE Department of Daffodil International University’.

We would like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

The support and encouragement rendered by, “**Active Composite Mills Ltd and Vintage Denim Ltd.**” Stuffs & ‘**Arifuzzaman Head of IE Section in Active Composite Mills Ltd.**’ were very vital in the completion of this project, their guidance and encouragement played a key role in the planning and completion of this project.

Finally, we express our sincere gratitude to our parents and friends for their continuous support, ideas and love during our studies.

## **Dedication**

At first we want to dedicate this report to Almighty Allah (ALHAMDULILLAH) for giving us the opportunity to prove ourselves. Without His help nothing would be possible.

## DECLARATION

We hereby declare that, this report has been done under the supervision of **Mohammad Abdul Baset**, Assistant Professor, Department of Textile, Daffodil International University. We also declare that neither this internship report nor any part of this internship report has been submitted elsewhere for award of any degree.

### **Submitted by:**

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## ABSTRACT

This project is ‘**Study on quality control in sewing section**’ of “**Active Composite Mills Ltd. And Vintage Denim Ltd.**” Garment manufacturing is quite different from any other conventional manufacturing. It is not a continuous production method. Each style is a different product that requires a different type of fabric, color, buttons, thread, etc. Sewing process is one of the most important stages in labor intensive ready-made clothing enterprises. Quality faults occurring during this process adversely affect the product quality and product efficiency, and also increase the production cost. The aim of this study is to investigate whether the woven production process is under control in a woven production enterprise and to detect the processes with the highest rates of sewing faults in sewing department and finally to make suggestions for improving the quality control. Also, the processes with highest amounts of sewing faults and the effects of these processes on fault rates were investigated. End of The Line Inspection Report on the 04 days we identify **366** pieces faults out of **6775** pieces inspected garments bar tack missing, Uneven stitches, Broken Stitches, Puckering, Point Up-Down, Uneven Stich, Down Stich, Button Stich etc. faults are found by inspection of garments in the sewing section. **Bar tack missing** is the major problem in the sewing section. Average of bar tack missing is **16%**. Finally, we have found different types of sewing faults by Sewing machine and operator. We are also mentioning remedies for specific reasons which all are included in this project report. We also included some end line inspection report of “Active Composite Mills Ltd and Vintage Denim Ltd.”.

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## **Chapter-1 Introduction**

### 1.1 Background of the Study

The biggest and the most essential segment in an article of clothing industry is its sewing segment. In this segment, every last sewing machine and occupations of machine administrators ought to be assessed on a normal reason for recognizing, revising and controlling of flaws and keeping up nature of items. To guarantee the nature of the item, quality control faculty need to control quality in an alternate area in piece of clothing industry, which are specifically or in a roundabout way required with creation. Quality is the distinction between items. It is the integrity or disagreeableness in an item. This definition remains constant till this date. The Garment additionally assumes an essential part in the general public. For create great article of clothing we have to keep up quality and quality relies upon sewing course of action of piece of clothing

### 1.2 Objectives of the Study

- To know how to analyze a garment effectively and efficiently.
- To identify the causes of sewing fault and solve this.
- To implement technical solutions toward thread defects.
- To show how technical know-how can increase production efficiency.
- To minimize sewing fault from garments.
- To improve quality of garments.

### 1.3 Importance of the Study

A Cost Saving Approach in Garments Production Unit. This article clarifies the reasons for sewing shortcomings in instant pieces of clothing. Sewing shortcomings are an issue generally looked by piece of clothing producers. Regardless of it being an exceptionally basic issue, it is extremely hard to dispose of it totally. A few parts of the sewing flaw arrangement, its causes, and assurance and cures are talked about in this article. The creator noticed that it is extremely hard to dispense with flaws totally. The inquiries whether the level of a blame is adequate or not depends to a great extent on the sort of article of clothing, area of the crease, appearance. Quality flaws happening amid this procedure unfavorably influence the item quality and item proficiency, and furthermore increment the generation cost. The point of the examination is to research how to control quality in piece of clothing generation and make proposals for enhancing the quality control. By this examination, we showed that the examination of every quality control process would make a noteworthy commitment to create a quality piece of clothing and get ready more compelling in the change designs.

Notwithstanding, decrease in sewing shortcomings will dependably be invited and would be a vital angle in the universal advertising of instant articles of clothing.

## 1.4 Limitations of the Study

During the study I had faced the following limitation

- **Shortage of secondary data sources:** Publication of this field not available and there were no organization or department for maintaining proper information about the company.
- **Respondent unwillingness:** Some respondents were unwilling to respond due to maintaining secrecy about the company.
- **Lack of accurate data:** Respondents were unwilling to disclose their fault and quality check data. So, this type of data used in this report is not too proper.
- There is no special training department for study.

**Shortage of time:** At least eight months required for completion of the final report, but we have given only three months. So to acquire a vast knowledge, it is the most important limitation for me

## **Chapter- 2 Literature Review**

## 2.1 Defects in Apparel:

Apparel manufacturing is the last stage of manufacturing before marketing. The entire consumer wants to get a product which is free of any types of defect. For this reason manufacturer should be aware about defect of product. In this every stage of manufacturing various types of mistakes can be occurred.

Defect of apparel can be defined as the absence of desired features in the product or unwanted feature in products. Defective product is not desired to any man. Defectives products lose its value in the market. A product may contain different defects.

Another terms near to defect is called reject. A product becomes a reject when it loses its stability in the market. Rejection of garments is harmful for the manufacturers. A single defect in the most visible area of a garment may make it reject.

## 2.2 Types of defects:

There are two main types of defects:

Non-Sewing defects

Sewing defects

Defects may occur in garments industry produced on mass scale. The sources of defects are given below:

## 2.3 Non-sewing defects:

1. Defects due to wrong pattern.
2. Defects due to wrong cutting.
3. Defects due to poor handling of goods.
4. Defects due to oil marks.
5. Defects due to wrong ironing/folding/packing.

## 2.4 Sewing defects

Sewing defect can be classified as three groups:

Problem of stitch formation.

Seam pucker.

Fabric damage along the seam line/stitch

#### 2.4.1 Problems of stitch formation:

1. Skip Stitch
2. Slipped Stitch
3. Staggered Stitch
4. Unbalanced Stitch
5. Variable Stitch Density
6. Frequent Thread Breakage
7. Slanted
8. Broken Stitch
9. Raw Edge
10. Mechanical Damage
11. Needle Heating Damage
12. Oil Spot
13. Open Seam

#### **1. Skip stitch:**

Stitches in the seam are present in a regular wise. If the interloping or interlacing between top & bottom thread of stitch is not take place or missed is known as skipped stitch. This is more harmful in case of chain stitch than lock stitch.



*Figure2.1 Skip Stitch*

## **Causes-**

Failure of hook or looper and needle to enter loop at correct time.

Irregular thread tension on upper or lower loop.

Due to needle deflection.

If needle thread loop size is too small.

When flagging of fabrics is happened during sewing.

If sewing thread is unable to form loop.

## **Remedies-**

Examine the setting and timing between needle and hook or looper.

The tension of thread should be adjusted.

Needle should be changed.

Needle size and thread should be adjusted.

The pressure of pressure foot should be adjusted perfectly.

Thread should be changed.

## **2. Slipped stitch:**

Missing of interloping or interlacing top and bottom.

### Causes

Hook or needle failing to enter thread loops at the correct time.

Thread loop failure caused by incorrect needle size.

Flagging of fabric due to large throat plate hole.

Incorrect sewing tension in the needle

### Remedies

Machine clearances and timings should be checked.

Check if the needle is inserted and aligned correctly.

Needle size should be changed.

The hole of throat plate & needle size must be adjusted.

Re-adjust tensions.



### **3. Staggered stitch:**

If the stitches produced by needle are not parallel or become curvy to sewing line is known as staggered stitch.

#### **Causes-**

Needle vibration or deflection.

Incorrect or blunt needle point.

Feed dog sway.

Poor fabric control, presser foot bounce.

Wrong adjustment of needle & thread size.

#### **Remedies-**

Increase needle size or change to a reinforced or tapered needle.

Change the needle.

Tighten the feed dog.

Reset the presser foot. Change the feed mechanism.

Needle size & thread size to be changed.

### **4. Unbalance Stitch:**

Improper interlacement of thread especially in lock stitch machine.

#### **Causes-**

Wrong tension of sewing thread.

Used wrong thread path.

Wrong adjustment of needle thread path.

If the threads are not lubricated.

Snagging of needle with bobbin case & positioning finger.

#### **Remedies-**

Setting of proper tension to the sewing threads

Use of right thread path

Better qualities threads must be used

Bobbin case to be smooth

## **5. Variable stitch density:**

When number of stitch per unit length is not equal.

### **Causes-**

Improper unwinding of thread from package during sewing

Twisting of needle thread in the bottom of thread package

Twisting of thread in the thread guide

Snarling of thread before tension disk

More tension to the thread

Fraying of thread in the needle

Becoming more heated of thread

Becoming more heated of hook

Use of low quality threads

### **Remedies-**

The position of thread guide must be 2.5 times higher than the position of thread package

Foam pad must be used to the bottom of thread package

Proper threading of sewing thread during sewing

The edges must be smooth, and needle must be changed as needed

Finer threads must be used or to be used heavy needle

High quality needle must be used

Lubricant must be available

Thread to be changed

## **6. Frequent thread breakage:**

This is the breakage of thread again & again during sewing. And also there needs more time and which is harmful for production. Specially, when there needs to open out of sewing to solve the problem.

### **Causes-**

Wrong winding of threads on to the bobbin

More tension to the bobbin threads

If the edges bobbin case, lopper eye and so on are more sharpened

Wrong fitting of bobbin case

### **Remedies-**

Proper winding of threads on to the bobbin

The tension must be adjusted to the bobbin threads

The edges to be smooth

Examine the size & type of bobbin.

### **7. Broken Stitch:**

Section of the garment that has not been covered by sewing thread that is broken or open seam.



*Figure 2.2 Broken Stitch*

### **Causes:**

This problem due to improper handling of the parts of garments, improper setting and timing between needle and lopper or hook etc.

## Remedies:

Clear markings for stitch line

Fine quality or D-core thread must be used

Pattern needs to be correct

Perfect setting and timing between needle and looper or hook.

Worker training

Proper handling of the parts of garments

Proper Tension should be quantifiable

Feed dog and hook set timing should be checked

## 8. Oil spot-

### Causes:

For various purpose sewing machine parts may be jammed or in need of cleaning or maintenance. The machine should be oiled or lubricated. Sewing machine needle also be lubricated by oil for reducing friction.

If the machine at that time, there might be get an oil mark.

For this, need to run a test thread and fabric through the machine to remove excess oil.

### Remedies:

At first, pretreated with the pre-wash stain remover, liquid laundry detergent. After that, launder the garments by using hottest water safe for fabric.



*Figure2.3Oil Spot*

#### 2.4.2 Seam Puckering:

Seam puckering is common problem on woven then knits fabric. Seam puckering mention to the gathering of a seam during or after laundering, causing not satisfactory seam appearance.



*Figure2.4 Puckering*

#### **Causes:**

Extension of sewing thread.

Fabric construction.

Mismatched patterns.

Sewing threads shrinkage.

Fabric dimensional instability.

Variable an uneven stretch on fabric

#### **Remedies:**

Proper feed mechanism should be used with equal ply stretch.

Fabric shrinkage property must be almost equal.

Fabric and sewing thread shrinkage% should be equal.

Using less tension to the thread.

#### 2.4.3 Damage of fabric on seam line:

It is happened due to wrong needle selection or needle damage. But it may be happened in case of new or fine needles. There are two types of fabric damaging are available given below:

**1. Mechanical damage:**

The followings are the steps to be taken to keep the fabrics free from this type of defect:

By using perfect size & shape of the needle & needle point without any defect.

By reducing the speed of sewing machine.

By using lubricant.

By testing sew ability before sewing fabrics.

**2. Needle heating damage:**

The damage of fabric due to friction occurred between the needle & fabrics. The fabric can be damaged with that temperature. There is a less possibility of damaging in case of fabrics made from natural fibers.

The following are the steps to be taken to keep the fabrics free from this type of defect:

By changing needle Size & shape so that there is less generating of heat to the needle.

By sewing smaller length at higher speed.

By using lubricant to the needle.

By using Teflon coated needle.

## **Chapter-3 DATA ANALYSIS & PRESENTATION**

### 3.1 Data Collection

We have examined two processing plants and gather information on the sewing issues. There are add up to 16 sewing line in Active Composite Mills Ltd. What's more, Vintage Denim Ltd. From these 16 lines we take a shot at 8 sewing lines and we gather some data about pieces of clothing request amount, purchaser name, style no. of pieces of clothing, no. of administrator, no of partner other than sewing issues. Examined information are given beneath which we found in sewing floor of Active Composite Mills Ltd And Vintage Denim Ltd.

### 3.2 Data Analysis

Here we investigate information of sewing issue and other data that we get from 8 sewing line of Active Composite Mills Ltd. Furthermore, Vintage Denim Ltd. We appear here some data about articles of clothing like request amount, purchaser name, style no. of articles of clothing and so forth other than no. of imperfection, modify and dismiss in information table.

### 3.3 Attachment of sewing report

#### **Line inspection report 1**

#### **LINE (I) in Active Composite Mills Ltd.**

A copy of End of The End Line Inspection report is attached that we have collected from the factory



**RISING GROUP**  
**ACTIVE COMPOSITE MILLS LTD.**  
Dewan Idris Sharok, Zirabo, Savar, Dhaka, Bangladesh

Date: 17-03-2018  
Buyer: KIABI  
Style: JBMS18MCRAG

Po No.:  
Sewing Line: I  
Inspector: M. J. Hossain

**DAILY END-LINE INSPECTION REPORT**

Hours	Total Price Check	No. of Price Pass	Defective Pc/Rectified Pc	Total Pc Rejected	Section	Broken Stitch	Skip Stitch	Raw Edge	Join Stitch	Puckering	Up & Down Part	Uneven Stitch	Shape Out	Wrong Size	Twisting	Shading	Fabric Fault	Hole/Damage	Stain/Oil	Bartack	Hook & Barf Button	Iron Mark	Defects Total
1	134	120	14/13	14	Front Back																		14
2	146	130	16/17	16	Front Back																		16
3	145	135	10/10	10	Front Back																		10
4	145	132	13/12	13	Front Back																		13
5	136	125	11/10	11	Front Back																		11
6	142	135	7/07	7	Front Back																		7
7	148	142	6/05	6	Front Back																		6
8	156	150	6/06	6	Front Back																		6
9	155	160	5/05	5	Front Back																		5
10	142	136	8/07	8	Front Back																		8
	1443	1504	92/09	92																			92

% Defective = (Total No of Defective Pieces / Total No of Pieces Inspected) \* 100 = 6.58%  
DHU = (Total No of Defective Pieces / Total No of Pieces Checked) \* 100 = 6.97

Sign of Checker: \_\_\_\_\_ Sign of QC: \_\_\_\_\_ Sign of Supervisor: \_\_\_\_\_ Sign of In-Charge: \_\_\_\_\_ Sign of QAM: \_\_\_\_\_

RISING Compliance Unit  
Plot: I/10, Block-K, Rupnagar I/A, Mirpur, Dhaka-1216

Figure 3.1 Report on sewing section

**100% End of The Line Inspection Report in Sewing Section 10/03/2018**

**RISING GROUP**

**ACTIVE COMPOSITE MILLS LTD**

**DAILY END-LINE INSPECTION REPORT**

Date: 17-03-2018

Po No.:

Buyer: KIABI

Sewing Line: I

Style No: JBMS18MCRAG

Inspector: .....

Hours	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	Total
Total Pieces check	134	146	145	145	136	142	148	156	155	142	1449
No. Of. Pcs Passed	120	130	135	132	125	135	142	150	150	135	1354
Defective Pc/ Rectified Pc	14/ 13	16/ 16	10/ 10	13/1 2	11/1 0	07/0 7	06/0 5	06/0 6	05/0 5	07/0 7	95/92

Total Pc Rejected	0	0	0	1	1	0	1	0	0	0	3
Section	Front/ back	Front/ back	Front/ back	Front/ back	Front/ back	Front/ back	Front/ back	Front/ back	Front/ back	Front/ back	
Broken Stich		2		2	1	1	1		2	1	10
Skip Stich	6	4	3	3		2				3	21
Raw-Edge				2			2	1			5
Join Stich		2		1	2	1	1		1		8
Puckering											
Up & Down Parts											
Uneven Stich	1	2	1		2	1		2	1		10
Shape Out											
Worng Size											
Twisting	5	4	3	2	2					2	18
Shading											
Fabric Fault											
Hole Damage											
Stain Oil	3	2	2		3	2		1			13
Bartack											
Hook & Bar/Button											
Iron Mark											
Pleat		1	1	2	1		1	2	1	1	10
Open Seam			1	2	1		1		1		6
Defects Total	15	15	11	14	12	7	6	6	6	7	<b>101</b>

DHU= (Total no of Defective pieces/Total No of Pieces Checked)\*100=6.97%

1<sup>st</sup> Highest Defects= Skip Stitch 21pcs

2<sup>nd</sup> Highest Defect= Twisting 18pcs

3<sup>rd</sup> Highest Defect= Stain Oil 13pcs

Total Pieces check=1449

Total Defects=101

From the table I can see that, at line (I) our observation date was 17/03/18. The buyer was KIABI. The item that was produced was S/S T SHIRT (Basic T-Shirt). Total worker or operator worked at line (I) was 16 with 12 helpers and 2 QC operator. From our observation I found that from 8am-9am they check 135pcs of garments and there have been total 15 defects.

In this way, total 1449pcs of garments checked in our 10hrs observation. Here I totally found 101 pcs of defective garments where 98pcs are altered and 3pcs are rejected.

Here we show the list of defects below we found at line (I):

Broken Stitch=10

Skip Stitch=21

Raw-Edge=5

Join Stitch=8

Uneven Stitch=10

Twisting=18

Stain Oil=13

Pleat=10

Open Seam=6

### 3.4 Attachment of sewing report

#### **Line inspection report 2**

#### **LINE (B) in Active Composite Mills Ltd.**

A copy of End of The End Line Inspection report is attached that we have collected from the factory.

**RISING GROUP**

**ACTIVE COMPOSITE MILLS LTD.**  
Dewan Idris Sharok, Zirabo, Savar, Dhaka, Bangladesh

Date: 11-03-18  
Buyer: Kmart  
Style: KP195

Po No: \_\_\_\_\_  
Sewing Line: B  
Inspector: M. OZ BOP / Tolhara

**FINISHING QC INSPECTION REPORT**

Hours	Total Price Check	No. of Price Pass	Defective Pc	Rectified Pc	Total Pc Rejected	Section	Broken Stitch	Skip Stitch	Raw Edge	Join Stitch	Puckering	Up & Down Pass	Uneven Stitch	Shape Out	Womg Size	Twisting	Shading	Fabric Fault	Hole/ Damage	Stain/ Oil	Bartack	Hook & Bar/ Button	Iron Mark	Next	Defects Total
1	143	123	20	19	1	Front Back																			20
2	124	115	9	9	0	Front Back																			9
3	146	140	6	6	0	Front Back																			6
4	137	129	8	7	1	Front Back																			8
5	148	135	13	12	1	Front Back																			13
6	156	149	7	7	0	Front Back																			7
7	138	130	8	7	1	Front Back																			8
8	140	135	5	5	0	Front Back																			5
9	142	130	12	11	1	Front Back																			12
10	144	130	14	12	2	Front Back																			14
	1418	1316	102	95	7		16	24	12	10			9		9					11					47

% Defective = (Total No of Defective Pieces / Total No of Pieces Inspected) \*100=

DHU = (Total No of Defective Pieces / Total No of Pieces Checked) \*100=

Sign of Checker: Rising Compliance Unit  
Plot: I/10, Block-K, Rupnagar I/A, Mirpur, Dhaka-1216

Sign of QC: \_\_\_\_\_

Sign of Supervisor: \_\_\_\_\_

Sign of In-Charge: \_\_\_\_\_

Sign of QAM: \_\_\_\_\_

Figure 3.2 Report on sewing section

**100% End of The Line Inspection Report in Sewing Section 10/03/2018**

**RISING GROUP**

**ACTIVE COMPOSITE MILLS LTD**

**DAILY END-LINE INSPECTION REPORT**

Date: 10-03-2018

Po No :

Buyer:K-MART

Sewing Line:B

Style No: KP195

Inspector:.....

Hours	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	Total
Total Pieces check	143	124	146	137	148	15 6	138	140	142	144	1418
Total Passed Pieces	123	115	140	129	135	14 9	130	135	130	130	1316
Defective Pc/Rectified Pc	20/ 19	9/9	6/6	8/7	13/ 12	7/7	8/7	5/5	12/ 11	14/ 12	102/95
Total Pc Rejected	1			1	1		1		1	2	7
<b>Section</b>											
Broken Stich	2	2	1	1	3	1		2	3	1	16
Skip Stich	5	3	2	3	2	2	2	1	2	2	24
Raw-Edge	2	1			2				4	3	12
Join Stich	2	1			1	2	1		3		10
Puckering											
Up & Down Parts											
Uneven Stich	2		2	1	1					3	9
Shape Out											
Worng Size											
Twisting	3	2		1	2	1					9
Shading											
Fabric Fault											

Hole Damage											
Stain Oil	4		1		2		2			2	11
Bartack											
Hook & Bar/Button											
Iron Mark											
Pleat				1		1	1			1	4
Open Seam				4			2	2		2	7
Defects Total	20	9	6	8	13	7	8	5	12	14	102

DHU= (Total no of Defective pieces/Total No of Pieces Checked)\*100=7.07%

1<sup>st</sup> Highest Defects= Skip Stitch 24pcs

2<sup>nd</sup> Highest Defect= Broken Stitch=16

3<sup>rd</sup> Highest Defect= Raw Edge=12

Total Pieces check=1418

Total Defects=102

From the table we can see that, at line no. (B) Our observation date was 11/02/18. Total order quantity was 17,000pcs & the buyer was K-MART. The item that was produced was Polo shirt. Total worker or operator worked at line (B) was 44 with 32 helpers and 2 QC operator. From our observation we found that from 8am-9am they checked 143pcs of garments and there have been total 20 defects. From those 20 defects they can alter 19 and reject 1 garments.

In this way, total 1418pcs of garments produced in our 10hrs observation. Here we totally found 102pcs of defective garments where 95pcs are altered and 7pcs are rejected.

Here we show the list of defects below we found at line (B):

Broken Stitch=16

Skip Stitch=24

Raw-Edge=12

Join Stitch=10

Uneven Stitch=9

Twisting=9

Stain Oil=11

Pleat=4

Open Seam=7

### 3.5 Attachment of sewing report

#### Line inspection report 3

#### LINE (F) in Active Composite Mills Ltd.

A copy of End of The End Line Inspection report is attached that we have collected from the factory.

**RISING GROUP**  
**ACTIVE COMPOSITE MILLS LTD.**  
Dewan Idris Sharok, Zirabo, Savar, Dhaka, Bangladesh

Date: 15-02-18  
Buyer: KMDAT  
Style: KNS.P-455  
Po No: \_\_\_\_\_  
Sewing Line: F  
Inspector: \_\_\_\_\_

Hours	Total Price Check	No. of Price Pass	Defective Pcs/Rectified Pcs	Total Pcs Rejected	Section	Broken Stitch	Skip Stitch	Raw Edge	Join Stitch	Puckering	Loose Pcs	Uneven Stitch	Shape Out	Wrong Size	Twisting	Shading	Fabric Fault	Hot/Damage	Stain/Oil	Backstitch	Hook & Bar/ Button	Iron Mark	Pleat	Open Seam	Defects Total	
1	155	147	8/8		Front Back																				8	
2	149	140	9/7	2	Front Back																				9	
3	145	138	7/7		Front Back																				7	
4	147	136	11/10	1	Front Back																				11	
5	138	129	9/8	1	Front Back																				9	
6	135	127	8/8		Front Back																				8	
7	142	133	9/8	1	Front Back																				9	
8	147	135	12/12		Front Back																					12
9	142	133	9/8	1	Front Back																				1	9
10	135	127	8/8		Front Back																					8
	1453	1345	99/94	5		16	14	15		5		8	4							12				5	11	90

% Defective = (Total No of Defective Pieces / Total No of Pieces Inspected) \*100  
DHU = (Total No of Defective Pieces / Total No of Pieces Checked) \*100

Sign of Checker: \_\_\_\_\_ Sign of QC: \_\_\_\_\_ Sign of Supervisor: \_\_\_\_\_ Sign of In-Charge: \_\_\_\_\_ Sign of QAM: \_\_\_\_\_

**RISING GROUP** Compliance Unit  
Plot: I/10, Block-K, Rupnagar I/A, Mirpur, Dhaka-1216

Figure 3.3 Report on sewing section

**100% End of The Line Inspection Report in Sewing Section 10/03/2018**

**RISING GROUP**

**ACTIVE COMPOSITE MILLS LTD**

**DAILY END-LINE INSPECTION REPORT**

**Date: 15-02-2018**

**Po No :**

**Buyer: K-MART**

**Sewing Line:F**

**Style No:10NSTP-455**

**Inspector:.....**

<b>Hours</b>	<b>1<sup>st</sup></b>	<b>2<sup>nd</sup></b>	<b>3<sup>rd</sup></b>	<b>4<sup>th</sup></b>	<b>5<sup>th</sup></b>	<b>6<sup>th</sup></b>	<b>7<sup>th</sup></b>	<b>8<sup>th</sup></b>	<b>9<sup>th</sup></b>	<b>10<sup>th</sup></b>	<b>Total</b>
Total Pieces check	155	149	145	147	138	135	142	147	142	135	1435
Total Passed Pieces	147	140	138	136	129	127	133	135	133	127	1345
Defective Pc/Rectified Pc	8/8	9/7	7/7	11/10	9/8	8/8	9/8	12/12	9/8	8/8	90/84
Total Pc Rejected		2		1	1		1		1		6
<b>Section</b>											
Broken Stich	2	1	2	3	1	2			3	2	16
Skip Stich	1	3		2	3		1	1	2	1	14
Raw-Edge	3		2	4	1	2			2	1	15
Join Stich											
Puckering		1		1	2				1		5
Up & Down Parts											
Uneven Stich		2	1		1	2		2			8
Shape Out		1		1			1	1			4
Worng Size											



Twisting											
Shading											
Fabric Fault											
Hole Damage											
Stain Oil	1		1		1	2	2	3		2	12
Bartack											
Hook & Bar/Button											
Iron Mark											
Pleat		1					2	2			5
Open Seam	1		1				3	3	1	2	11
Defects Total	8	9	7	11	9	8	9	12	9	8	90

DHU= (Total no of Defective pieces/Total No of Pieces Checked)\*100=5.77%

1<sup>st</sup> Highest Defects= Broken Stitch=16pcs

2<sup>nd</sup> Highest Defect= Raw Edge=15pcs

3<sup>rd</sup> Highest Defect= Skip Stitch=14pcs

Total Pieces check=1435pcs

Total Defects=90pcs

From the table we can see that, at line (F) my observation date was 15/02/18. Total order quantity was 10,000pcs & the buyer was K-MART. The item that was produced was LONG PANT (All Over Print). Total worker or operator worked at line (F) was 31 with 24 helpers and 2 QC operator. From our observation we found that from 8am-9am they produced 155pcs of garments and there have been total 8 defect. From those 8 defects they can alter garments.

In this way, total 1435pcs of garments produced in our 10hrs observation by 2QC operator. Here we totally found 90pcs of defective garments where 84pcs are altered and 6pcs are rejected.

Here we show the list of defects below we found at line (I):

Broken Stitch=16

Skip Stitch=14

Raw-Edge=15

Puckering=5

Uneven Stitch=8

Shape Out=4

Stain Oil=12

Pleat=5

Open Seam=11

### 3.6 Attachment of sewing report

This per hour End of The Line Inspection is done by the Q.C. & his assistants on a specific table for separating the faulty product in every each hour from a produced product of a specific line. We have inspected the End table Inspection on 15/02/18, 16/02/18 & 18/02/18

A copy of End of The End Line Inspection report is attached that we have collected from the factory

### Line inspection report 4

Buyer : QWEDDE  
 Style : SUN-34  
 POI/Art : O.U.T. P.L.T.  
 Item : LADIES LONG BNT

Date : .....  
 Line No. : D  
 Inspector : TONIA  
 N.B. Alter Pcs x 100 = %  
 Total Pcs

**TABLE INSPECTION REPORT**  
 Section : Sewing  
 M-DEC-2016

B	Broken Stitch	E	Embroidery	IM	Incomplete Stitch	N	Needle Mark	P	Puckering	SK	Skip Stitch	TH	Thread Mistake	V	Visible Edge
<input checked="" type="checkbox"/>	Bubbling	F	Fabric Fault	IM	Ink Mark	NS	Narrow Stitch	R	Run off Stitch	SP	Slapet Pocket	U	Uneven Stitch	W	Weavy Zipper
<input checked="" type="checkbox"/>	Bag Tack missing	G	Gathering	L	Label Mistake	O	Oil Mark	RE	Raw Edge	T	Twisted	UP	Uneven Point	WM	Way Mistake
<input checked="" type="checkbox"/>	Down Stitch	HP	High Low Pkt	LS	Loop Slanted	OP	Open Stitch	RJ	Reject	TT	Tension Tight	UL	Uneven Lob	WS	Wide Stitch
<input checked="" type="checkbox"/>	Dury	HW	High Low Waist	M	Missing Stitch	OV	Over Stitch	S	Shading	TL	Tension Loose	UW	Uneven Width		

Description	1	2	3	4	5	6	7	8	9	10	Total	Remarks									
Total Received	130	130	170	300	210	510	240	250	1000	190	1100	310	1400	300	1200	250	1050	250	2200		
OK	122	122	160	282	195	478	222	700	232	230	118	118	200	1318	233	1609	238	184	242	2083	
Alter	08	08	10	8	14	32	18	50	15	65	07	22	10	82	17	02	12	109	08	117	117
Alter Rectified	08	08	10	8	14	32	18	50	15	65	07	22	10	82	17	02	12	109	08	117	117
Total Ok	130	130	170	300	210	510	240	250	1000	190	1100	310	1400	300	1200	250	1050	250	2200		
INSEDMO	UP-11					P-111				SD-11			UP-1							09	
INSEDMO				P-111		P-111							P-111							12	
BELT T/S	M-11			U-111					D-1111021				U-1111							16	
BELT BCK				M-111				OP-111			IP-11 U-1					M-1111				13	
BDR BCK	BR-111		BR-11			BR-1111	BR-111								BR-111	BR-11				18	
HEM O/L			B-11							UP-11111						B-11				17	
HEM B/S			SK-1111			UP-111	OP-11						UP-111 D-11							15	
HEM B/S			UP-11			SK-1111	D-11						SK-11111							15	
L/B BEL				OP-11			12-11111						UP-111							10	
L/Chief Sign																					
Line Controller																					

Line Chief: [Signature]  
 Production Manager: [Signature]  
 Q. Manager/Incharge: [Signature]  
 Head of Quality: [Signature]

D.H.U → 5.31

Figure 3.4 Report on sewing section

**Vintage Denim Ltd.**  
**DAILY TABLE INSPECTION REPORT**  
**SECTION: SEWING**

**Buyer : DEVRED**

**Style : SUN - 94**

**PO/Art : Out Put**

**Item : LADIS LONG PANT**

**Date : 15/02/2018**

**Line no : A**

**Inspector: TANIA**

Description	1	2	3	4	5	6	7	8	9	10	Total	Remark D.H.U%
Total Received	130	170	210	240	250	190	210	300	250	250	2200	<b>D.H.U= 5.3%</b>
Ok	122	160	196	222	235	183	200	283	238	242	2083	
Alter	8	10	14	18	15	07	10	17	12	08	117	
Alter Rectified	8	10	14	18	15	07	10	17	12	08	117	
Total ok	130	170	210	240	250	190	210	300	250	250	2200	
<b>Proces &amp; Defect Description</b>	<b>1<sup>st</sup></b>	<b>2<sup>nd</sup></b>	<b>3<sup>rd</sup></b>	<b>4<sup>th</sup></b>	<b>5<sup>th</sup></b>	<b>6<sup>th</sup></b>	<b>7<sup>th</sup></b>	<b>8<sup>th</sup></b>	<b>9<sup>th</sup></b>	<b>10<sup>th</sup></b>		
Broken Stitch	2				4					2	8	
Bar Tack Missing	3	2		5	3				3	2	18	
Down Stitch					2	4		3			9	
Dirty												
Fabric Fault												
Gathering												
High Low PKT												
High Low Waist												
Incompleat Stitch					2		5				7	
Label Mistack												
Loop Slanted												
Missing Stitch	2		3			4				4	13	
Oil Mark												
Open Stitch			2		5		2				9	
Over Stitch												
Puckering												
Shading												
Skip Stitch		4		4			7				15	
Tantion Tight												
Tention Lose												
Thread Mistack												
Uneven Stitch		3							5		8	
Uneven Point	3	2	3		2	7	4	3			24	
Uneven Lop				3		3					6	
Uneven Width												

After observation 3.1 we found Uneven Point faults than other faults. We observed 10<sup>th</sup> hour's production and found 24 Uneven Point sewing fault, but all pieces are altering and no rejecting pieces found. Maximum Uneven Stitch sewing fault occur 5-8th hour production time. Total D.H.U = 5.3%. This fault actually happened for the fabric is being pulled while sewing. Another cause for uneven Point is not use proper handling. On this day I also found different types of faults the amount of faults is given below,

Down Stitch: 9

Uneven Lop: 6

Incomplete stitch: 7 etc.

After check this fault they send to this operator to remove the faults.

### 3.7 Attachment of sewing report

#### Line inspection report 5

**Vintage Denim Ltd.**

**TABLE INSPECTION REPORT**

**Section : Sewing**

Date : 16-02-18

Line No. : B

Inspector :

N.B.  $\frac{\text{Alter Pcs} \times 100}{\text{Total Pcs}} = \%$

Zara  
2716  
own put  
MENS TR

M-DEC-2016

Stitch	E	Embroidery	IS	Incomplete Stitch	N	Needle Mark	P	Puckering	SK	Skip Stitch	TH	Thread Mistake	V	Visible Edge
ing	F	Fabric Fault	IM	Ink Mark	NS	Narrow Stitch	R	Run off Stitch	SP	Slanted Pocket	U	Uneven Stitch	W	Weavy Zipper
ek mixing	G	Gathering	L	Label Mistake	O	Oil Mark	RG	Raw Edge	T	Twisted	UP	Uneven Point	WM	Way Mistake
Stitch	HP	High Low PKT	LS	Loop Slanted	OP	Open Stitch	RJ	Reject	TT	Tension Tight	UL	Uneven Lob	WS	Wide Stitch
	HW	High Low Waist	M	Missing Stitch	OY	Over Stitch	S	Shading	TL	Tension Loose	UW	Uneven Width		

On	1	2	3	4	5	6	7	8	9	10	Total	Remarks
ved	135 125	160 149	210 197	240 222	210 195	250 235	190 181	300 282	195 185	250 238	2140	
	10	11	12	18	15	15	9	18	10	12	2040	
	10	11	12	18	15	15	9	18	10	12	130	
	135 125	160 149	210 197	240 222	210 195	250 235	190 181	300 282	195 185	250 238	2140	
	D-11	B-1111	BR-11	D-1						BR-11	15	
	HW-			HP-21		11-111				OS-11	8	
	BR-11	IS-11	DS-111	B111			B-1111		DS-1	pu-1111	10	
	LN-111	MS-11	BR-111	MS-11	BR-111						13	
		LM-11	RS-11			11-11		OS-11	TT-11	UL-1111	10	
	P-21	OS-111	OS-1	OS-11	OS-111	VP-21		B-1111			22	
	SK-1	VP-1	P-11	UL-11	S-11			7m-111	UL-1111		10	
		KS-11	UL-11	LP-11	LP-111	LP-111	LP-111	LP-111	LP-111		18	
											24	

D.H. U. 6.07%

Q.C. Production Manager Q. Management Head of Quality

Figure 3.5 Report on sewing section

**Vintage Denim Ltd.**  
**DAILY TABLE INSPECTION REPORT**  
**SECTION: SEWING**

**Buyer : Zara**  
**Style : 2716**  
**PO/Art : Out Put**  
**Item : MENS TR**

**Date : 16/02/2018**  
**Line no : B**  
**Inspector:**

Description	1	2	3	4	5	6	7	8	9	10	Total	Remark D.H.U%
Total Received	135	160	210	240	210	250	190	300	195	250	2140	<b>D.H.U= 6.07%</b>
Ok	125	145	198	222	195	235	181	282	185	238	2010	
Alter	10	11	12	18	15	15	9	18	10	12	130	
Alter Rectified	10	11	12	18	15	15	9	18	10	12	130	
Total ok	135	160	210	240	210	250	190	300	195	250	2140	
<b>Proces &amp; Defect Description</b>	<b>1<sup>st</sup></b>	<b>2<sup>nd</sup></b>	<b>3<sup>rd</sup></b>	<b>4<sup>th</sup></b>	<b>5<sup>th</sup></b>	<b>6<sup>th</sup></b>	<b>7<sup>th</sup></b>	<b>8<sup>th</sup></b>	<b>9<sup>th</sup></b>	<b>10<sup>th</sup></b>		
Broken Stitch		3		3			4	5			15	
Bar Tack Missing	2		2		7	5				2	18	
Down Stitch	2		3								5	
Dirty				1							1	
Fabric Fault												
Gathering												
High Low PKT				2		2					4	
High Low Waist	3										3	
Incompleat Stitch		2				3					5	
Label Mistack	1		2			2					5	
Loop Slanted												
Missing Stitch		2		2	4						8	
Run of Stitch				1							1	
Open Stitch		3				2		3			8	
Over Stitch			1	2						2	5	
Puckering	2		2							4	8	
Shading					2						2	
Skip Stitch	1		2								3	
Tantion Tight									3		3	
Tention Lose												
Thread Mistack								3			3	
Uneven Stitch												
Uneven Point		1		5	3						9	
Uneven Lop				2			5	7	6	4	24	
Uneven Width												

After observation 3.1 we found Uneven Loop faults than other faults. We observed 10<sup>th</sup> hour's production and found 24 Uneven Loop sewing fault, but all pieces are altering and no rejecting pieces found. Maximum Uneven Loop sewing fault occur 7-10th hour production time. Total D.H.U = 6.07%. This fault actually happened for the fabric is being pulled while sewing. Another cause for uneven Loop is not use proper handling. On this day I also found different types of faults the amount of faults is given below,

Run of stitch: 1

Skip Stitch: 3

Tension Tight: 3etc.

After check this fault they send to this operator to remove the faults.

3.8 Attachment of sewing report  
**Line inspection report 6**

## Vintage Denim Ltd.

### TABLE INSPECTION REPORT

Section : Sewing

Buyer : DEVEN HAMS      Date : 15-02-18  
 Style : 2716      Line No. : C  
 PO/Art : Out Put      Inspector : \_\_\_\_\_  
 Item : MENS TR      M - DEC-2016

N.B.  $\frac{\text{Alter Pcs} \times 100}{\text{Total Pcs}} = \%$

B	Broken Stitch	E	Embroidery	IS	Incomplete Stitch	N	Needle Mark	P	Puckering	SK	Skip Stitch	TH	Thread Mistake	V	Visible Edge
BB	Bubbling	F	Fabric Fault	IM	Ink Mark	NS	Narrow Stitch	R	Run off Stitch	SP	Shaved Pocket	U	Uneven Stitch	W	Wear Zipper
BR	Bar Tack missing	G	Gathering	L	Label Mistake	O	Oil Mark	RE	Raw Edge	T	Twisted	UP	Uneven Point	WM	Way Mistake
D	Dava Stitch	HP	High Low PKT	LS	Loop Slanted	OP	Open Stitch	RI	Reject	TT	Tension Tight	UL	Uneven Lob	WS	Wide Stitch
DI	Dirty	HW	High Low Waist	M	Missing Stitch	OY	Over Stitch	S	Shading	TL	Tension Loose	UW	Uneven Width		

Description	1	2	3	4	5	6	7	8	9	10	Total	Remarks
Total Received	195	170	250	210	250	300	190	180	250	260	2235	
OK	190	168	250	200	250	295	180	170	250	260	2235	
Alter	10	8	10	12	15	17	10	8	10	18	119	
Alter Rectified	10	8	10	12	15	17	10	8	10	18	119	
Total Ok	195	190	260	210	250	300	190	180	250	260	2235	
PROCESS												
	BS-III	BS-III		BS-III		BS-III	BS-III	BS-III			17	
			BS-III	BT-III	BT-III	DS-III	BT-III	OS-III			29	
	MS-III	KS-III				LS-III	MS-III				7	
			LM-III			SK-III		VP-III			11	
	VS-III			OS-III	LS-III		VS-III				11	
		VL-III			DS-III						5	
					VP-III	VL-III					11	
L/Chief Sign	Kafi	Kafi	Kafi	Kafi	Kafi	Kafi	Kafi	Kafi	Kafi	Kafi		
Line Controller												

D.H.U = 5.08%

Kafi  
Line Chief

OC

Mans  
Production Manager

Q. Manager in charge

Head of Quality

Figure 3.6 Report on sewing section

**Vintage Denim Ltd.**  
**DAILY TABLE INSPECTION REPORT**  
**SECTION: SEWING**

Buyer : **DEVEN HAMS**  
 Style : **2716**  
 PO/Art : **Out Put**  
 Item : **MENS TR**

Date : **15/02/2018**  
 Line no : **C**  
 Inspector: \_\_\_\_\_



Description	1	2	3	4	5	6	7	8	9	10	Total	Remark D.H.U%
Total Received	195	170	250	210	250	300	190	180	250	240	2235	<b>D.H.U= 5.38%</b>
Ok	190	162	240	198	235	282	180	172	240	220	1116	
Alter	10	8	10	12	15	18	10	8	10	18	119	
Alter Rectified	10	8	10	12	15	18	10	8	10	18	119	
Total ok	195	170	250	210	250	300	190	180	250	240	2235	
<b>Proces &amp; Defect Description</b>	<b>1<sup>st</sup></b>	<b>2<sup>nd</sup></b>	<b>3<sup>rd</sup></b>	<b>4<sup>th</sup></b>	<b>5<sup>th</sup></b>	<b>6<sup>th</sup></b>	<b>7<sup>th</sup></b>	<b>8<sup>th</sup></b>	<b>9<sup>th</sup></b>	<b>10<sup>th</sup></b>		
Broken Stitch	5	3	7	5		2	1				23	
Bar Tack Missing				4	7		4			2	17	
Down Stitch						2			3		5	
Dirty												
Fabric Fault									4		4	
Gathering												
High Low PKT												
High Low Waist		1								2	3	
Incompleat Stitch					2						2	
Label Mistack			3								3	
Loop Slanted						1			3		4	
Missing Stitch	2						2				4	
Run of Stitch												
Open Stitch					3			5		7	15	
Over Stitch				3							3	
Puckering												
Shading										3	3	
Skip Stitch		2				5					7	
Tantion Tight												
Tention Lose												
Thread Mistack												
Uneven Stitch	3						3				6	
Uneven Point					3			3		4	10	
Uneven Lop		2				8					10	
Uneven Width												
TOTAL											119	

After observation 3.3 we found Broken Stitch faults than other faults. We observed 10<sup>th</sup> hour's production and found 23 Broken Stitch sewing fault, but all pieces are altering and no rejecting pieces found. Maximum Broken Stitch sewing fault occur 1-4th hour production time. Total D.H.U = 5.38%. This fault actually happened for the fabric is being pulled while sewing. Another cause

for uneven Point is not use proper handling. On this day I also found different types of faults the amount of faults is given below,

Incomplete Stitch: 2pcs

Missing Stitch: 4

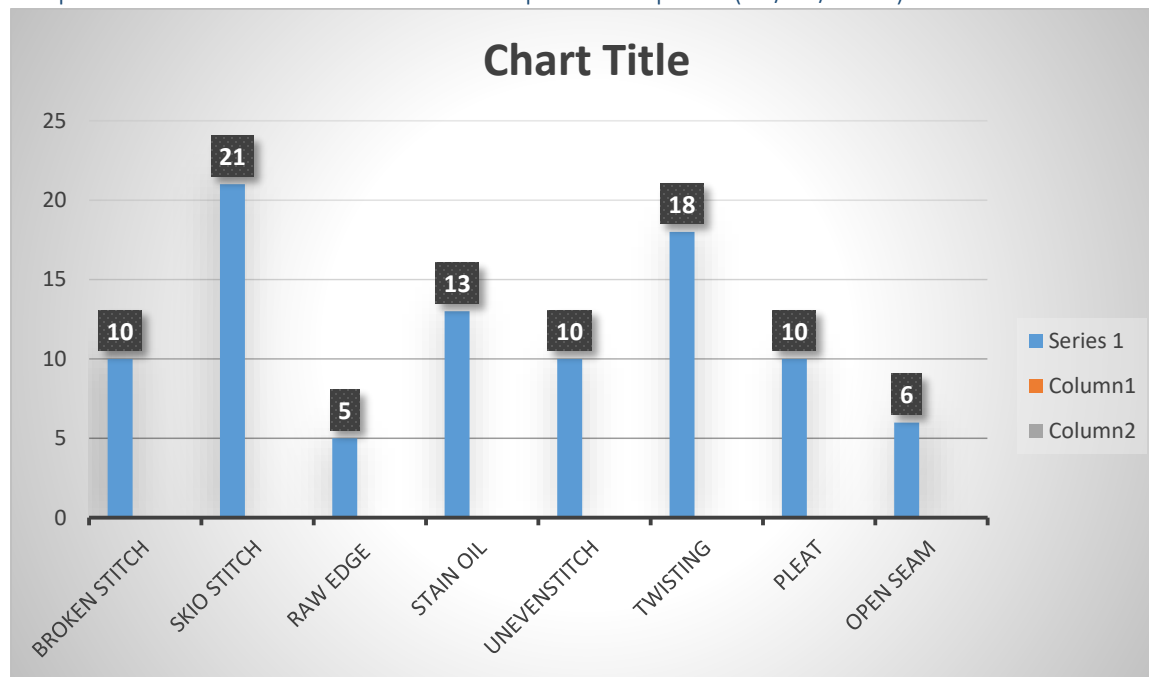
After check this fault they send to this operator to remove the faults.

## **Chapter-4 RESULT AND DISCUSSION**

#### 4.1 Analysis Data Collection

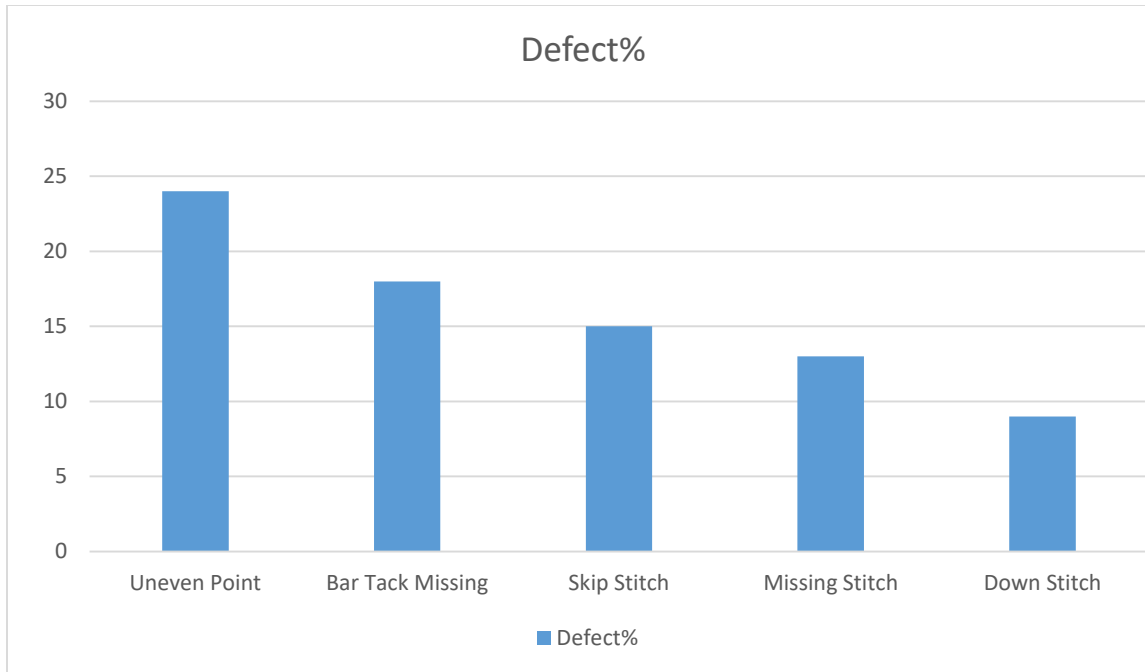
We have broken down on the sewing area floor in "Thousand years Textiles (Southern) Ltd.". Also, we discovered distinctive sorts of as often as possible happens Poor Trimming, Down line, oil check, Raw-Edge, tidy stamp, Poor Iron, Uneven Stitch and so on we found that Poor Trimming which is nearly higher than different deformities.

Graph4.1.1 Table 3.3 End of the Line Inspection report I (17/03/2018)



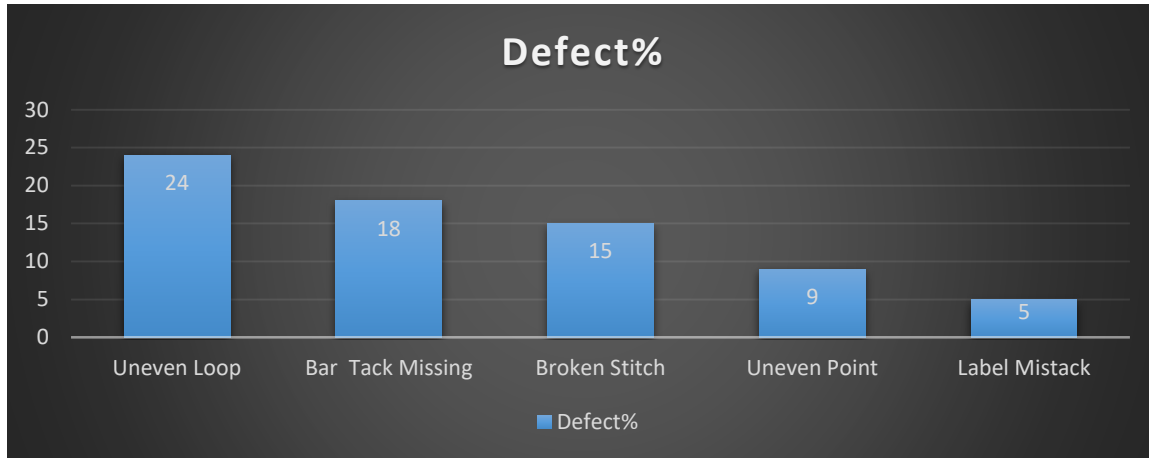
After perception 3.1 we discovered Uneven Stich flaws than different shortcomings. We watched tenth hour's creation and discovered 16 Uneven Stitch sewing deficiency pieces, however all pieces are changing and no dismissing pieces found. Most extreme Uneven Stitch sewing issue happen 4-sixth hour creation time. Normal blame happens in the hours is most extreme 1.6 pieces. For this sewing issue of the Shirt, We have taken loads of data from Q.A.D for real causes and cures of this kind of blame. This blame really happened forth texture is being pulled while sewing. Another reason for uneven lines is the more established or mediocre string. When sewing it is vital to make sure to never pull the texture - enable the texture to be taken up by the sewing machine

Graph4.1.2 Table 3.6 The End Line Inspection report 4 (15/02/2018).



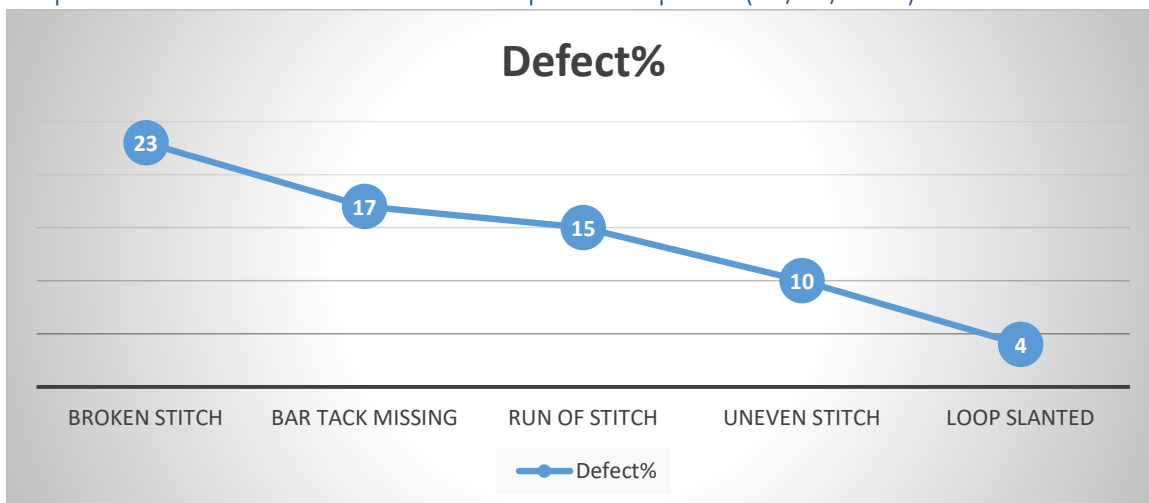
After observation 3.1 we found Uneven Point faults than other faults. We observed 10<sup>th</sup> hour's production and found 24 Uneven Point sewing fault, but all pieces are altering and no rejecting pieces found. Maximum Uneven Stitch sewing fault occur 5-8th hour production time. Total D.H.U = 5.3%. This fault actually happened for the fabric is being pulled while sewing. Another cause for uneven Point is not use proper handling. For this sewing fault of the Pant, We have taken lots of information from Q.A.D for actual causes and remedies of this type of fault. This fault actually happened for the fabric is being pulled while sewing. Another cause for uneven stitches is the older or inferior thread. When sewing it is important to remember to never pull the fabric - allow the fabric to be taken up by the sewing machine.

Graph 4.1.3 Table 3.7 End of the Line Inspection report 5 (16/02/2018)



After observation 3.1 we found Uneven Loop faults than other faults. We observed 10<sup>th</sup> hour's production and found 24 Uneven Loop sewing fault, but all pieces are altering and no rejecting pieces found. Maximum Uneven Loop sewing fault occur 7-10th hour production time. Total D.H.U = 6.07%. This fault actually happened for the fabric is being pulled while sewing. Another cause for uneven Loop is not use proper handling. For this sewing fault of the MANS TR, We have taken lots of information from Q.A.D for actual causes and remedies of this type of fault. This fault actually happened for the fabric is being pulled while sewing. Another cause for uneven stitches is the older or inferior thread. When sewing it is important to remember to never pull the fabric - allow the fabric to be taken up by the sewing machine.

Graph 4.1.4 Table 3.7 End of the Line Inspection report 6 (18/02/2018)



After observation 3.3 we found Broken Stitch faults than other faults. We observed 10<sup>th</sup> hour's production and found 23 Broken Stitch sewing fault, but all pieces are altering and no rejecting pieces found. Maximum Broken Stitch sewing fault occur 1-4th hour production time. Total D.H.U = 5.38%. This fault actually happened for the fabric is being pulled while sewing. For this sewing fault of the MANS TR, We have taken lots of information from Q.A.D for actual causes and remedies of this type of fault. This fault actually happened for the fabric is being pulled while sewing. Another cause for uneven stitches is the older or inferior thread. When sewing it is important to remember to never pull the fabric - allow the fabric to be taken up by the sewing machine.

#### 4.2 Comment

End of the Line inspected 03 Days Report 6575pieces of sewing Pant & MANS TR and finally we got the followings faults which are more occurs than other faults,

Uneven Point	: 43
Bar Tack Missing	: 53
Skip Stitch	: 25
Missing Stitch	: 28
Down Stitch	: 19
Uneven Loop	: 46
Broken Stitch	: 42
Label Missing	: 9
Run OF Stitch	: 16
Uneven Stitch	: 30
Loop Slanted	: 4
Puckering	: 22
Incomplete Stitch	: 9
Open Stitch	: 20

End of the line inspected 03 Days Report 366 faults.

Major problem of this report is Bar Tack Displace, which End Of The Line inspected 03 Days Report got 366 fault out of 6575piece garments.

#### 4.2.1 Sewing Defects Percentage Measurement

<b>Defect name</b>	<b>Defect Number</b>	<b>Defect %</b>
<b>Uneven Point</b>	43	11.7
<b>Bar Tack Missing</b>	53	14.48
<b>Skip Stitch</b>	25	6.83
<b>Missing Stitch</b>	28	7.65
<b>Down Stitch</b>	19	5.19
<b>Uneven Loop</b>	46	12.56
<b>Broken Stitch</b>	42	11.47
<b>Label Missing</b>	9	2.45
<b>Run OF Stitch</b>	16	4.37
<b>Uneven Stitch</b>	30	8.19
<b>Puckering</b>	22	6.01
<b>Incomplete Stitch</b>	9	2.45
<b>Open Stitch</b>	20	5.46
<b>Loop Slanted</b>	4	1.09
<b>Total</b>	366	100%



#### 4.2.2 Different Sewing defects are shown in the pie chart

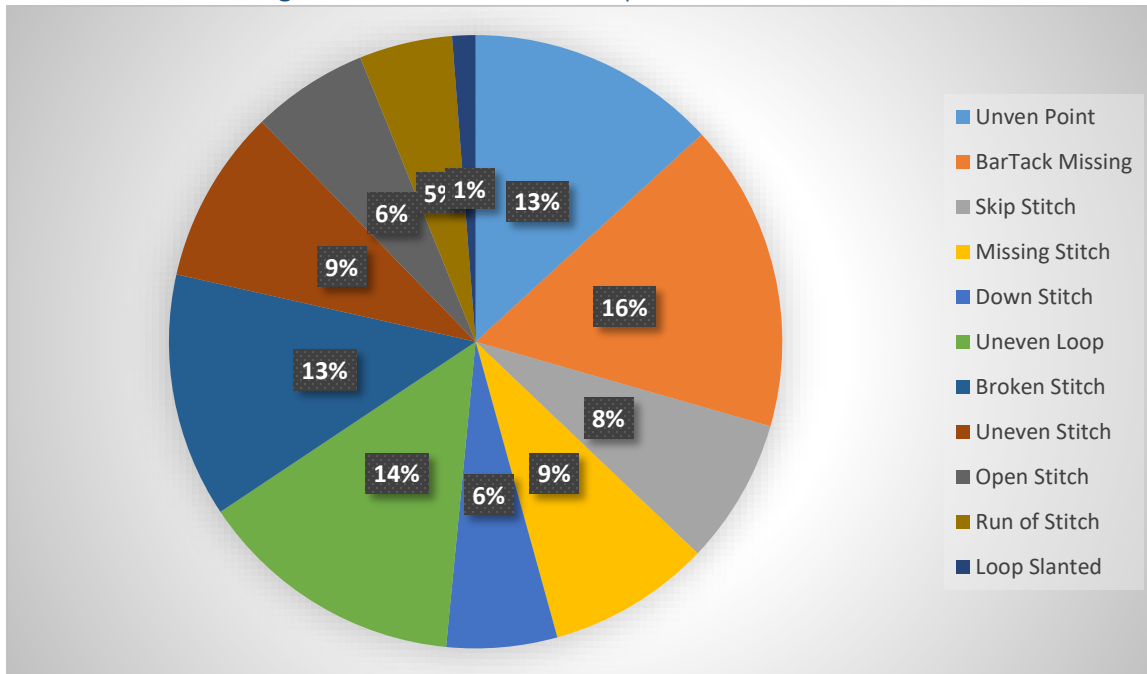
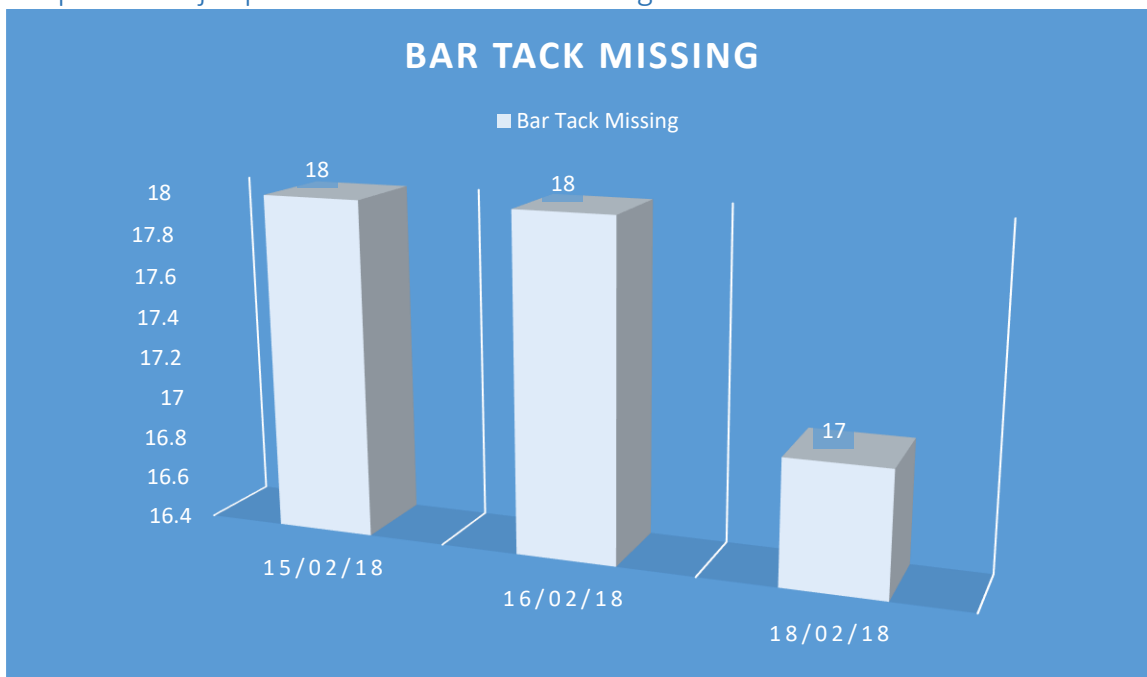


Figure 4.1 pie chart of graphical view

#### Graph 4.3 Major problems occur in the sewing section



## **Chapter-5 Conclusion**

## 5.1 Conclusion

Finally, we have completed our thesis after lots of inspection, experiment & discussion. We have gathered a large experience about this project. We have increased our knowledge about how sewing is done for making a garments, problems of sewing & how those problems are minimized. This thesis used a variety of garment samples which were grouped according to the end product categories. This study on sewing process in a ready-made clothing Enterprise, the reasons increasing quality faults and the priorities were determined for the improvement studies. To enable a good quality system in enterprises, there should be an adequate number of quality staff and the quality consciousness of workers should be increased. Material quality should be controlled by performing input controls, while the production quality should be provided by intermediary controls during production. Quality level should be constantly improved and for this purpose, regular trainings should be prepared in the enterprise.

## References

1. Published on Nov 4, 2015, Sewing problems by Habibur Rahman, Retrieved from <https://www.slideshare.net/Dollar800242/sewing-problems>
2. Garment Defects Causes and Remedies in Defects, Garments Production, Retrieved from <http://fashion2apparel.blogspot.com/2016/12/garment-defects-causes-remedies.html>
3. [www.rising-group.com](http://www.rising-group.com)
4. [www.vintage-denim-ltd](http://www.vintage-denim-ltd)
5. <http://sewing.about.com/od/sewingmachineindex>
6. <http://www.generations-quilt-patterns.com/sewing-machine-tension.html>
7. <http://www.fibre2fashion.com/industry-article/9/837/defects-in-garments1.asp>
8. <http://nisearch.com/files/pdf/garments-sewing-defects>
9. <http://sewing.about.com/library/weekly/blsuperior.htm>
10. <http://textileeducationtips.blogspot.com/2013/03/learn->