



Faculty of Engineering

Department of Textile Engineering

Title of the project

Study on Different Types of Sewing Fault & it's Remedies.

Course Title: project (Thesis)

Course code: TE-4214.

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A thesis submitted in partial fulfillment of the requirements for the degree of **Bachelor of Science in Textile Engineering.**

Advance in Apparel Manufacturing Technology

Fall-22



LETTER OF APPROVAL

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To

The Head

Department of Textile Engineering

Daffodil International University

Daffodil Smart City, Dhaka

Subject: Approved of Project (Thesis) Report of B.Sc. in TE Program.

Sir

I am just writing to let you know that this report titled as "Study on Different Types of Sewing Fault and its Remedies". it has been Prepared by the student bearing ID 191-23-657 and 191-23-647 is completed for final evaluation. The whole report is prepared based on the factory data with required belongings. The students were directly involved in their 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

Md. Abdullah Al Mamun

Soldlah

Associate Professor

Department of Textile Engineering

Faculty of Engineering

Daffodil International University



DECLARATION

we declared that this report "study on different types of Sewing faults & it's Remedies" is done by us under the supervision of Md. Abdullah Al Mamun, Associate professor of the department of Textile Engineering, Daffodil International University. which data is collected by us from factories with taking permission from the Authorities. This report is not presented before any other university. We also declared that our supervisor has the right to cancel this report.



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ACKNOWLEDGEMENT

In the name of Allah, the most merciful. We are thankful to Almighty Allah for giving us the ability and opportunity to work on the paper.

Then we would like to thanks our Respected teacher also our Supervisor Abdullah Al Mamun sir, Assistant professor, department of Textile Engineering, Daffodil International University, whose worthy guidance helps us and inspired us to complete the paper. we also very much thankful to magpie composite textile Ltd and SNOWTEX outwear ltd Authorities for gives us permission to collects data from there Factories for project work.

Also, thanks to all employee who help us to collect information and gives us knowledge about factory work environment which was very helpful for finish the paper.



DEDICATION

We Dedicate the paper to our loving parent who always support us in our good work.



ABSTRACT

Garments defect means the undesirable operation Happens during production in garments. This is big problem in RMG sector. The main reason of garments rejections is Sewing fault which is the main reason of low productivity. It is very necessary to know about sewing fault to increase productivity. The aim of the paper is to know Identifying different types of sewing fault like- puckering, uneven stitch, Raw edge, needle cut, stitch skip etc. without identifying it is not possible to produce good quality product. we have collected some end table inspection report from factories where we are doing our internship to Identify defects and after analyzation we found some defects. Then we choose some defects and start works to found its remedies. we successfully found those remedies which we present in this paper.



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1.0 INTRODUCTION:

1.1 Background:

Textile means those all process which is used to make a complete garment like, knitting, dyeing, printing, cutting and sewing. Sewing is a process of attaching fabric edge by using one or more Needle. In Apparel Industry sewing is a major thing. Sewing have some faults, In this paper we will explain about faults and its remedies.

1.2 Objectives:

- > To Observes the types of Sewing Faults Occur in Factory.
- To observes the reason of occurring Sewing Faults in factory.
- > To know the Remedies of those Sewing fault & improves product Quality by avoiding those Faults.

1.3 Importance of Study:

As a Textile engineer It is very important to know about sewing faults. Sewing fault is the main reason of production quantity loss. To improve production quantity and quality it is necessary to know the faults types those occurring reason and their remedies. Without knowing these thing a person who is connected with textile industry will be not success to identify production loss and the process where improvement is required. That's the reason the topic is important.



2.0 LITERATURE REVIEW

2.1 sewing:

Sewing is the process of attaching fabric one edge to another edge using one or more needle. The small unit of sewing is called stitch. More stitch density means more strength. In Apparel Industry sewing is must use for makes a complete-garments. After cutting fabric panels are send to sewing section and then those panels sewn according to sewing layout given by IE department. In sewing section different types of sewing machine according garments design. In industry most of the time polyester thread is used because its strength is good and cheaper than other thread.

2.2 Different types of sewing machine:

- > plain machine.
- Vertical machine.
- Overlock machine(4Thread).
- Overlock (5 thread)
- Flat lock machine (1,2,3 Needle).
- > Button hole Machine.
- > Button Attaching Machine.
- ➤ Bar-tack machine.
- Feed of the arm chain stitch machine.



2.2.1 Some pictures of Sewing Machine:



Figure:2.2.1-Plain Machine



Figure: 2.2.2-Overlock Machine.



Figure: 2.2.3-Bar Tack Machine.





2.2.4 Figure: feed of the Arm chain stitch machine

2.3 Garments Defect:

This is undesirable action occurred during sewing which decrease the marketability of garments. Producers main target is to produce fault free products to increase profit. They check garment during production in production line also in end of the line to reduce faults. If found any fault this garment sends for rectify, if rectify is not possible this count as a reject garment.

2.3.1 Types of Garments Defect:

Minor Defect: This can be defined as a defect which do not affect the usability of a garments.

Major Defect: This can be defined as a defect which decrease the marketability of a garments.

Critical Defect: This defect is a big defect which is not tolerable defect in Textile Industry.

This can be harmful for consumers. Like: broken Needle in finished garments, presence of insect etc. This defects measurements Standard can be different for different factories.

2.4 Some Sewing Faults:



- > Open seam.
- > Uneven stitch.
- ➤ Oil spot.
- > Dirty spot.
- > Broken stitch.
- ➤ Uncut thread.
- > Skip stitch.
- > Uneven hi-low.

Uncut thread:

Excess thread is hanging on garments after manufacturing. which is happened for unskilled workers. Workers training is required to avoid this problem.



Figure: 2.4.1 Uncut Thread.

Open stitch:

when a thread edge comes out after sewing is called open stitch.





Figure: 2.4.2 Open Stitch

Causes:

> Back stitch missing in sewing end edge.

Remedies:

> Proper back stitch should be used in sewing end edge.

Oil spot:

A spot is found in the garments surface which do not have any deep color is called oil spot. This decrease the quality of garments



Figure: 2.4.3 Oil Spot.

Causes:

- > If excess lubrication.
- > If machine part is not clean.



Remedies:

- ➤ Machine cleaning is required before use.
- > Should avoid Excess lubrication.
- > Should service the machine properly.



3.0 Experimental work

Methodology:

We work in different factory where work in different section like knitting, dyeing, cutting, sewing. In sewing work in end line inspection, where we watch many types of faults which is occurred for sewing. So, we took total 12 days end line inspection report to identify different types of defect, 7 Days from Magpie Composite Textile Ltd (MCTL) and 5 days Reports from Snowtex Outwear Ltd (SOL). After identifying we will try to reduce those problem.

DHU%:

Defect per hundred Unit Garments. To know the garments production quality this method is used In Textile Industry. The formula is

$$DHU = \frac{\textit{Total number of faults}}{\textit{total inspected pcs}} \times 100$$

3.1 Data collection:

We have collected all the data using in this project are from both factories where we complete our internship. We took permission for collecting all data from the factory authorities. This data is collected from end line quality inspection table.



3.2 End line table Inspection Report:

3.2.1 End Table inspection Report-1

we have collected some sewing end line report from Magpie composite textile ltd & SNOWTEX Outwear Ltd and this report is one of them which is collected from MCTL:

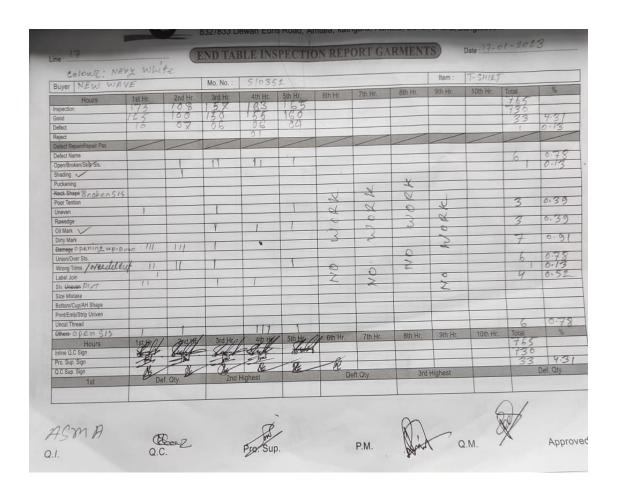


Figure:3.2.1 End Table Inspection Report-1



END LINE TABLE INSPECTION REPORT OF MCTL

| Date | | buyer | | | Color | | | Item | | | Line | |
|-------------|-----|-------|------|-----|--------|-------|-----|-------|-----|------|-------|------------|
| 17-01-23 | | NEW | WAVI | 3 | Navy v | vhite | | T-Shi | rt | | 17 | |
| Hours | 1hr | 2hr | 3hr | 4hr | 5hr | 6hr | 7hr | 8hr | 9hr | 10hr | total | DHU % |
| inspection | 175 | 108 | 157 | 165 | | | | | | | 765 | |
| Good | 165 | 100 | 150 | 160 | | | | | | | 730 | |
| Defect | 10 | 07 | 06 | 05 | | | | | | | 33 | 4.31 |
| reject | | | | | | | | | | | 1 | 0.13 |
| Defect | | | | | | | | | | | | |
| repair pas | | | | | | | | | | | | |
| Defect | | | | | | | | | | | | |
| Name | | 4 | | | - | | | | | | | 7 0 |
| Skip stitch | | 1 | 2 | 2 | 1 | | | | | | 6 | .78 |
| Broken | | | | | | | | | | | | |
| stitch | | | | | | | | | | | | |
| Shading | | 1 | | | | | | | | | 1 | .13 |
| Puckering | | | | | | | | | | | | |
| Poor | | | | | | | | | | | | |
| tension | | | | | | | | | | | | |
| Uneven | 1 | | 1 | | 1 | | | | | | 3 | .39 |
| stitch | | | | | | | | | | | | |
| Raw edge | | | | | | | | | | | | |
| Oil mark | | | 1 | 1 | 1 | | | | | | 3 | .39 |
| Dirty mark | _ | | | | | | | | | | | |
| Opening | 3 | 3 | | | | | | | | | 6 | .91 |
| up-down | | | | | | | | | | | | |
| Over stitch | | | | | | | | | | | | |
| Wrong | | | | | | | | | | | | |
| Trim | _ | | | | | | | | | | | |
| Needle cut | 2 | 2 | | | | | | | | | 4 | .78 |
| Sleeve | 2 | | 1 | 1 | | | | | | | 4 | .78 |
| Pleat | | | | | | | | | | | | |
| Wrong | | | | | | | | | | | | |
| trim | 1 | | | | 1 | | | | | | 1 | 10 |
| Label join | 1 | | | | | | | | | | 1 | .13 |
| Uncut | | | | | | | | | | | | |
| thread | | | | | 1 | | | | | | | |
| Size | | | | | | | | | | | | |
| mistake | 1 | 1 | | 2 | 1 | | | | | | 6 | 70 |
| Open | 1 | 1 | | 3 | 1 | | | | | | 6 | .78 |
| stitch | | | | | | | | | | | | |

Table:3.1 Line Inspection report -1

The report is collected in 17/01/23 from MCTL. The item type is T-shirt and color is Navy white and the buyer name is NEW WAVE. The line number is 17. From the report we can



see that total 765 garments is inspected and where 730 garments is good 30 defect item found and one item is rejected and the total DHU % is 4.31.

3.2.2 End Table inspection Report-2

we have collected some sewing end line report from Magpie composite textile ltd & SNOWTEX Outwear Ltd and this report is one of them which is collected from MCTL:

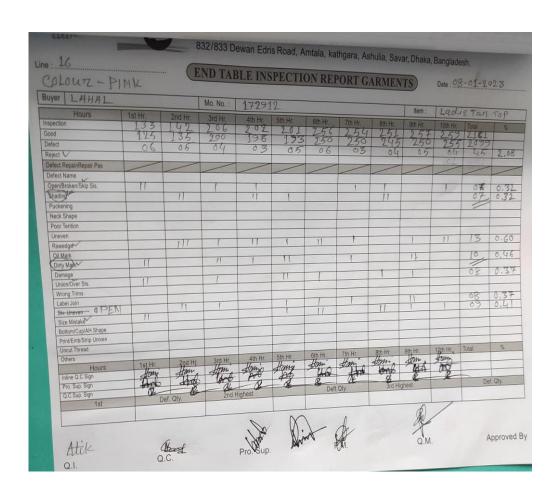


Figure:3.2.2-End Table inspection Report-2

END LINE TABLE INSPECTION REPORT OF MCTL



| Date | buyer | Color | Item | Line |
|----------|--------|-------|------------|------|
| 08-01-23 | LA-HAL | Pink | Ladies top | 16 |

| Hours | 1hr | 2hr | 3hr | 4hr | 5hr | 6hr | 7hr | 8hr | 9hr | 10hr | total | DHU % |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|----------|
| inspection | 133 | 142 | 206 | 202 | 201 | 256 | 254 | 251 | 257 | 259 | 2161 | |
| Good | 125 | 135 | 200 | 196 | 193 | 250 | 250 | 245 | 256 | 255 | 2099 | |
| Defect | 6 | 05 | 04 | 03 | 05 | 06 | 03 | 04 | 05 | 04 | 45 | 2.08 |
| reject | | | | | | | | | | | | |
| Defect | | | | | | | | | | | | |
| repair pas | | | | | | | | | | | | |
| Defect | | | | | | | | | | | | |
| Name | | | | | | | | | | | | |
| Skip stitch | 2 | | 1 | 1 | | | 1 | 1 | | 1 | 7 | 0.32 |
| Broken | | | | | | | | | | | | |
| stitch | | | | | | | | | | | | |
| Shading | | 2 | | 2 | 1 | | | 2 | | | 7 | 0.32 |
| Puckering | | | | | | | | | | | | |
| Poor | | | | | | | | | | | | |
| tension | | | | | | | | | | | | |
| Uneven | | | | | | | | | | | | |
| stitch | | | | | | | | | | | | |
| Raw edge | | 3 | 1 | 2 | 1 | 2 | 1 | | 1 | 2 | 13 | 0.60 |
| Oil mark | | | | | | | | | | | | |
| Dirty | 2 | | 2 | 1 | 2 | | 1 | | 2 | | 10 | 0.46 |
| mark | | | | | | | | | | | | |
| Opening | | | | | | | | | | | | |
| up-down | | | | | | | | | | | | |
| Over | 2 | | 1 | | 2 | 1 | | 1 | 1 | | 8 | 0.37 |
| stitch | | | | | | | | | | | | |
| Open | | 2 | 1 | | 1 | 1 | | | 2 | | 8 | 0.37 |
| stitch | | | | | | | | | | | | |
| Needle cut | | | | | | | | | | | | |
| Sleeve | | | | | | | | | | | | |
| Pleat | | | | | | | | | | | | |
| Wrong | | | | | | | | | | | | |
| trim | | | | | | | | | | | | |
| Label join | | | | | | | | | | | | |
| Uncut | | | | | | | | | | | | |
| thread | | | | | | | | | | | | |
| Size | 2 | | | | 1 | 2 | | 2 | 1 | 1 | 9 | 0.41 |
| mistake | | | | | | | | | | | | |
| Wrong | | | | | | | | | | | | |
| trim | | | | | | | | | | | | |



Table:3.2 Line Inspection report -2

The report is collected in 08/01/23 from MCTL. The item type is ladies Top and color is pink and the buyer name is LA-HAL. The line number is 16. From the report we can see that total 2161 garments is inspected and where 2099 garments is good 45 defect item found and no item is rejected and the total DHU % is 2.08.

3.2.3 End Table inspection Report-3

we have collected some sewing end line report from Magpie composite textile ltd & SNOWTEX Outwear Ltd and this report is one of them which is collected from MCTL:

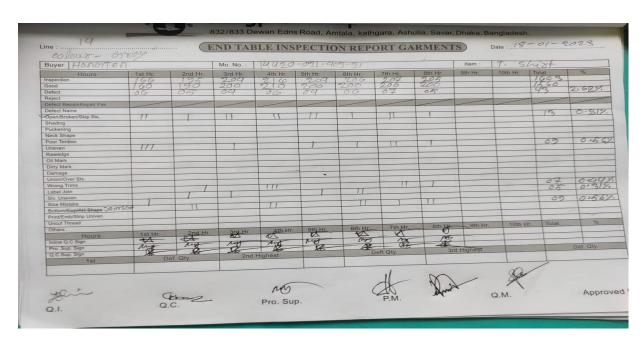


Figure: 3.2.3 End Table inspection Report-3

END LINE TABLE INSPECTION REPORT OF MCTL

| Date | buyer | Color | Item | Line |
|------|-------|-------|------|------|



| 18-01-23 | HANGTENG | Grey | T-shirt | 14 |
|----------|----------|------|-----------|----|
| 10-01-23 | HANGIENG | Grey | 1-SIIII t | 14 |

| Hours | 1hr | 2hr | 3hr | 4hr | 5hr | 6hr | 7hr | 8hr | 9hr | 10hr | total | DHU % |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|----------|
| inspection | 166 | 195 | 204 | 216 | 204 | 206 | 207 | 205 | | | 1603 | |
| Good | 160 | 190 | 200 | 210 | 200 | 200 | 200 | 200 | | | 200 | 2.68% |
| Defect | 06 | 05 | 04 | 06 | 04 | 06 | 07 | 05 | | | 43 | |
| reject | | | | | | | | | | | | |
| Defect | | | | | | | | | | | | |
| repair pas | | | | | | | | | | | | |
| Defect | | | | | | | | | | | | |
| Name | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | | | 10 | 0.01 |
| Skip stitch | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | | | 13 | 0.81 |
| Broken | | | | | | | | | | | | |
| stitch | | | | | | | | | | | | |
| Shading | | | | | | | | | | | | |
| Puckering | | | | | | | | | | | | |
| Poor | | | | | | | | | | | | |
| tension | | | | | | | | | | | | |
| Uneven | 3 | | 1 | | 1 | 1 | 2 | 1 | | | 9 | 0.56 |
| stitch | | | | | | | | | | | | |
| Uneven | | 1 | 1 | | 1 | 2 | | | | | 05 | 0.31 |
| sleeve | | | | | | | | | | | | |
| Raw edge | | | | | | | | | | | | |
| Oil mark | | | | | | | | | | | | |
| Dirty mark | | | | | | | | | | | | |
| Opening | | | | | | | | | | | | |
| up-down | | | | | | | | | | | | |
| Over stitch | | | | | | | | | | | | |
| Open stitch | | | | | | | | | | | | |
| Needle cut | | | | | | | | | | | | |
| Sleeve | | | | | | | | | | | | |
| Pleat | | | | | | | | | | | | |
| Wrong | | | | | | | | | | | | |
| trim | | 1 | | 2 | | - | 2 | 1 | | | 7 | 0.44 |
| Label join | | 1 | | 3 | | - | 2 | 1 | | | 7 | 0.44 |
| Uncut | | | | | | | | | | | | |
| thread | | | | | | | | | | | | |
| Size mistake | | | | | | | | | | | | |
| | | | | | | - | | | | | | |
| Wrong trim | | | | | | | | | | | | |
| Bottom | | 2 | | 2 | | 2 | 1 | 2 | | | 9 | 0.56 |
| join stich | | | | | | | 1 | | | |] | 0.50 |
| John Such | | | I | I | I | l | | | I | | | <u> </u> |



Table:3.3 Line Inspection report -3

The report is collected in 18/01/23 from MCTL. The item type is T-shirt and color is grey and the buyer name is HANGTENG. The line number is 14. From the report we can see that total 2161 garments is inspected and where 2099 garments is good 45 defect item found and no item is rejected and the total DHU % is 2.68.

3.2.4 End Table inspection Report-4

we have collected some sewing end line report from Magpie composite textile ltd & SNOWTEX Outwear Ltd and this report is one of them which is collected from MCTL:



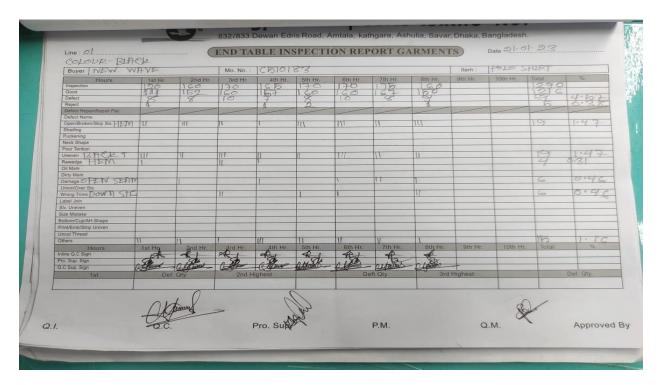


Figure: 3.2.4 End Table inspection Report-4.



END LINE TABLE INSPECTION REPORT OF MCTL

| Date | buyer | Color | Item | Line |
|----------|----------|-------|------------|------|
| 21-01-23 | NEW WAVE | Black | POLO-shirt | 01 |

| Hours | 1hr | 2hr | 3hr | 4hr | 5hr | 6hr | 7hr | 8hr | 9hr | 10hr | total | DHU % |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|----------|
| Inspection | 120 | 160 | 170 | 165 | 170 | 170 | 175 | 160 | | | 1290 | |
| Good | 111 | 152 | 160 | 157 | 160 | 160 | 167 | 150 | | | 1216 | |
| Defect | 8 | 08 | 10 | 07 | 08 | 10 | 08 | 09 | | | 69 | 4.57 |
| reject | 01 | | | 01 | 02 | | | 01 | | | 05 | 0.38 |
| Defect repair pas | | | | | | | | | | | | |
| Defect Name | | | | | | | | | | | | |
| Skip stitch(Hem) | 2 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | | | 19 | 1.47 |
| Broken stitch | | | | | | | | | | | | |
| Shading | | | | | | | | | | | | |
| Puckering | | | | | | | | | | | | |
| Poor tension | | | | | | | | | | | | |
| Uneven stitch | | | | | | | | | | | | |
| Uneven back | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | | | 19 | 1.47 |
| tape | | | | | | | | | | | | |
| Raw edge | 1 | | 2 | 1 | | | | | | | 04 | 0.31 |
| (HEM) | | | | | | | | | | | | |
| Oil mark | | | | | | | | | | | | |
| Dirty mark | | | | | | | | | | | | |
| Opening up- | | | | | | | | | | | | |
| down | | | | | | | | | | | | |
| Over stitch | | | | | | | | | | | | |
| Open stitch | | 1 | | 1 | | 1 | 2 | 1 | | | 06 | 0.46 |
| /seam | | | | | | | | | | | | |
| Needle cut | | | | | | | | | | | | |
| Sleeve Pleat | | | | | | | | | | | | |
| Wrong trim | | | | | | | | | | | | |
| Label join | | | | | | | | | | | | |
| Uncut thread | | | | | | | | | | | | |
| Size mistake | | | | | | | | | | | | |
| Wrong trims | | | 2 | | 1 | 1 | | 2 | | | 06 | 0.46 |
| down stitch | | | | | | | | | | | | |
| others | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 1 | | | 15 | 1.16 |

Table:3.4 Line Inspection report -4



The report is collected in 21/01/23 from MCTL. The item type is POLO-shirt and color is black and the buyer name is NEW WAVE. The line number is 1. From the report we can see that total 1290 garments is inspected and where 1216 garments is good 69 defect item found and 05 item is rejected and the total DHU % is 4.57

3.2.5 End Table inspection Report 5

we have collected some sewing end line report from Magpie composite textile ltd & SNOWTEX Outwear Ltd and this report is one of them which is collected from MCTL:

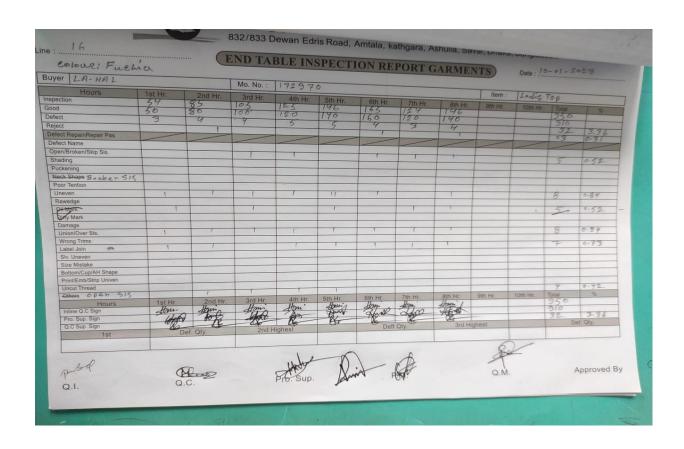


Figure: 3.2.5 End Table inspection Report-5



END LINE TABLE INSPECTION REPORT OF MCTL

| Date | buyer | Color | Item | Line |
|----------|--------|---------|------------|------|
| 10-01-23 | LA-HAL | Fuchsia | Ladies Top | 16 |

| | | | | | | | | 100 | | | | <u> </u> |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|----------|
| Hours | 1hr | 2hr | 3hr | 4hr | 5hr | 6hr | 7hr | 8hr | 9hr | 10hr | total | DHU % |
| Inspection | 54 | 85 | 105 | 125 | 146 | 165 | 124 | 146 | | | 950 | |
| Good | 50 | 80 | 100 | 120 | 140 | 160 | 120 | 140 | | | 910 | |
| Defect | 3 | 04 | 4 | 05 | 05 | 04 | 03 | 4 | | | 32 | 3.36 |
| reject | | 1 | | | | | | 01 | | | 2 | 0.31 |
| Defect repair pas | | | | | | | | | | | | |
| Defect Name | | | | | | | | | | | | |
| Skip stitch(Hem) | | | 1 | 1 | | 1 | 1 | 1 | | | 05 | 0.52 |
| Broken stitch | | | | | | | | | | | | |
| Shading | | | | | | | | | | | | |
| Puckering | | | | | | | | | | | | |
| Poor tension | | | | | | | | | | | | |
| Uneven stitch | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | | | 08 | 0.84 |
| Uneven back | | | | | | | | | | | | |
| tape | | | | | | | | | | | | |
| Raw edge | | | | | | | | | | | | |
| (HEM) | | | | | | | | | | | | |
| Oil mark | 1 | | 1 | | 1 | | 1 | 1 | | | 05 | 0.52 |
| Dirty mark | | | | | | | | | | | | |
| Opening up- | | | | | | | | | | | | |
| down | | | | | | | | | | | | |
| Over stitch | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 08 | 0.84 |
| Open | | 1 | 1 | 1 | 1 | | | | | | 04 | 0.72 |
| stitch/seam | | | | | | | | | | | | |
| Needle cut | | | | | | | | | | | | |
| Sleeve Pleat | | | | | | | | | | | | |
| Wrong trim | | | | | | | | | | | | |
| Label join | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | | 07 | 0.73 |
| Uncut thread | | | | | | | | | | | | |
| Size mistake | | | | | | | | | | | | |
| Wrong trims | | | | | | | | | | | | |
| down stitch | | | | | | | | | | | | |
| others | | | | | | | | | | | | |

Table:3.5 Line Inspection report -5



The report is collected in 10/01/23 from MCTL. The item type is Ladies Top and color is Fuchsia and the buyer name is LA-HAL. The line number is 16. From the report we can see that total 950 garment is inspected and where 910 garments is good 32 defect item found and 02 item is rejected and the total DHU is 3.36%.



3.2.6 End Table inspection Report-6

we have collected some sewing end line report from Magpie composite textile ltd & SNOWTEX Outwear Ltd and this report is one of them which is collected from MCTL:

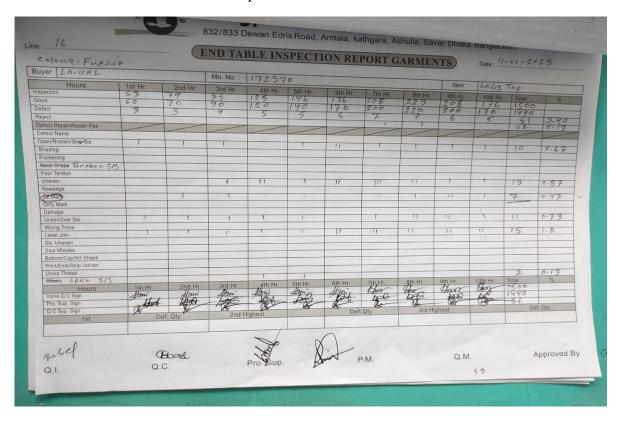


Figure: 3.2.6 End Table inspection Report-6.



END LINE TABLE INSPECTION REPORT OF MCTL

| Date | buyer | Color | Item | Line |
|----------|--------|---------|------------|------|
| 11-01-23 | LA-HAL | Fuchsia | Ladies Top | 01 |

| HOURS | 1hr | 2hr | 3hr | 4hr | 5hr | 6hr | 7hr | 8hr | 9hr | 10hr | total | DHU % |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|----------|
| Inspection | 63 | 74 | 95 | 125 | 146 | 176 | 208 | 229 | 208 | 176 | 1500 | |
| Good | 60 | 70 | 90 | 120 | 140 | 170 | 200 | 220 | 200 | 170 | 1440 | |
| Defect | 03 | 3 | 4 | 5 | 5 | 6 | 7 | 7 | 6 | 5 | 51 | 3.40 |
| reject | | | | | | | 1 | 1 | | | 2 | .13 |
| Defect repair pas | | | | | | | | | | | | |
| Defect Name | | | | | | | | | | | | |
| Skip stitch (Hem) | 1 | 1 | 1 | | 1 | 2 | 1 | 1 | 1 | 1 | 10 | 0.67 |
| Broken stitch | | | | | | | | | | | | |
| Shading | | | | | | | | | | | | |
| Puckering | | | | | | | | | | | | |
| Poor tension | | | | | | | | | | | | |
| Uneven stitch | | | 1 | 2 | 1 | 2 | 3 | 2 | 1 | 1 | 13 | 0.87 |
| Uneven back | | | | | | | | | | | | |
| tape | | | | | | | | | | | | |
| Raw edge | | | | | | | | | | | | |
| (HEM) | | | | | | | | | | | | |
| Oil mark | | 1 | 1 | | 1 | | | 1 | 2 | 1 | 7 | 0.47 |
| Dirty mark | | | | | | | | | | | | |
| Opening up- | | | | | | | | | | | | |
| down | | | | | | | | | | | | |
| Over stitch | 1 | 1 | 1 | 1 | 1 | | 1 | 2 | 2 | 1 | 11 | .73 |
| Open stitch | | | | 1 | 1 | | | | | | 2 | .13 |
| /seam | | | | | | | | | | | | |
| Needle cut | | | | | | | | | | | | |
| Sleeve Pleat | | | | | | | | | | | | |
| Wrong trim | | | | | | | | | | | | |
| Label join | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 15 | 1.0 |
| Uncut thread | | | | | | | | | | | | |
| Size mistake | | | | | | | | | | | | |
| Wrong trims | | | | | | | | | | | | |
| down stitch | | | | | | | | | | | | |
| others | | | | | | | | | | | | |



The report is collected in 11/01/23 from MCTL. The item type is Ladies top and color is Fuchsia and the buyer name is LA-HAL. The line number is 1. From the report we can see that total 1500 garments is inspected and where 1440 garment is good 51 defect item found and 02 item is rejected and the total DHU is 3.40%.



3.2.7 End Table inspection Report-7

we have collected some sewing end line report from Magpie composite textile ltd & SNOWTEX Outwear Ltd and this report is one of them which is collected from MCTL:

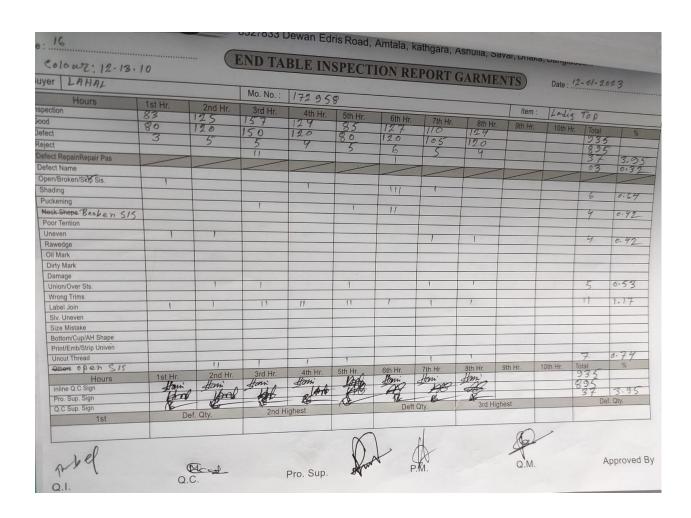


Figure: 3.2.7 End Table inspection Report-7



END LINE TABLE INSPECTION REPORT OF MCTL

| Date | buyer | Color | Item | Line |
|----------|--------|----------|------------|------|
| 12-01-23 | LA-HAL | 12.13.10 | Ladies Top | 16 |

| HOURS | 1hr | 2hr | 3hr | 4hr | 5hr | 6hr | 7hr | 8hr | 9hr | 10hr | total | DHU % |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|----------|
| Inspection | 83 | 125 | 157 | 124 | 85 | 127 | 110 | 124 | | | 935 | |
| Good | 80 | 120 | 150 | 120 | 80 | 120 | 105 | 120 | | | 895 | |
| Defect | 3 | 5 | 5 | 4 | 5 | 6 | 5 | 4 | | | 37 | 3.95 |
| reject | | | 2 | | | 1 | | | | | 2 | .32 |
| Defect repair pas | | | | | | | | | | | | |
| Defect Name | | | | | | | | | | | | |
| Skip stitch | 1 | | | 1 | | 3 | 1 | | | | 6 | .64 |
| (Hem) | | | | | | | | | | | | |
| Broken stitch | | | | | | | | | | | | |
| Shading | | | | | | | | | | | | |
| Puckering | | | 1 | | 1 | 2 | | | | | 4 | .42 |
| Poor tension | | | | | | | | | | | | |
| Uneven stitch | 1 | 1 | | | | | 1 | 1 | | | 4 | .42 |
| Uneven back | | | | | | | | | | | | |
| tape | | | | | | | | | | | | |
| Raw edge | | | | | | | | | | | | |
| (HEM) | | | | | | | | | | | | |
| Oil mark | | | | | | | | | | | | |
| Dirty mark | | | | | | | | | | | | |
| Opening up- | | | | | | | | | | | | |
| down | | | | | | | | | | | | |
| Over stitch | | 1 | 1 | | 1 | | 1 | 1 | | | 5 | .53 |
| Open | | 2 | 1 | 1 | 1 | | 1 | 1 | | | 7 | .74 |
| stitch/seam | | | | | | | | | | | | |
| Needle cut | | | | | | | | | | | | |
| Sleeve Pleat | | | | | | | | | | | | |
| Wrong trim | | | | | | | | | | | | |
| Label join | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | | | 11 | 1.17 |
| Uncut thread | | | | | | | | | | | | |
| Size mistake | | | | | | | | | | | | |
| Wrong trims | | | | | | | | | | | | |
| down stitch | | | | | | | | | | | | |
| others | | | | | | | | | | | | |

Table: 3.7 Line Inspection report -7



The report is collected in 12/01/23 from MCTL. The item type is Ladies top and color is 12.13.10 and the buyer name is LA-HAL. The line number is 1. From the report we can see that total 935 garment is inspected and where 895 garment is good 37 defect item found and 02 item is rejected and the total DHU is 4.17%.



3.3 Sewing Garments Inspection Report of MCTL (7 days)

| Date | Check pcs | Skip Stitch | shading | Uneven | Uneven Back tape | Raw edge (HEM) | Dirty Mark | Oil Stain | Opening up down | Over Stitch | Needle Cut | Sleeve pleat | Label join | Size mistake | Wong- Trim | other | puckering | Open stitch | Total |
|------------------|-----------|-------------|---------|--------|---------------------|-------------------|------------|-----------|--------------------|-------------|------------|--------------|------------|--------------|------------|-------|-----------|-------------|-------|
| 08/ 01/ 23 | 216 1 | 7 | 7 | 0 | 0 | 13 | 10 | 8 | | 8 | | | | 9 | | | | | 62 |
| 10/ 01/ 23 | 950 | 5 | | 8 | | | | 5 | | 8 | | | 7 | | | | | 7 | 40 |
| 11/ 01/ 23 | 150 0 | 10 | | 13 | | | | 7 | | 11 | | | 15 | | | | | 2 | 58 |
| 12/ 01/ 23 | 935 | 6 | | | | | | | | 5 | | | 11 | | | | 4 | 7 | 33 |
| 17/ 1/2 3 | 765 | 6 | 1 | 3 | | | | 3 | 6 | | 4 | 4 | 1 | | | | | 6 | 34 |
| 18 | 160 3 | 13 | | 9 | | | | | | | | | 7 | | | 15 | | | 44 |
| 21 | 129 0 | 19 | | | 19 | 4 | | | | | | | | | 6 | 15 | | 6 | 69 |
| | 920 4 | 66 | 8 | 33 | 19 | 17 | 10 | 23 | 6 | 32 | 4 | 4 | 41 | 9 | 6 | 30 | 4 | 28 | 340 |
| Total | | 19.41% | 2.35% | %02'6 | 5.59% | 2% | 2.94% | 6.76% | 1.76% | 9.41% | 1.17% | 1.17% | 12.05 | 2.64% | 1.74% | 8.82% | 1.18 | 8.24 | |

Table: 3.8 Sewing Garments Inspection Report of MCTL (7 days)

This the summary of 7day garments inspection report which is collected from MCTL. From the report we can see the total number of inspected garments and total defect in garment also the rejected garments quantity. we can see the most occurring fault is skip stitch in MCTL which is 19.41% and second is uneven stitch and the last is puckering which is 1.18 % and DHU=3.69%.



3.4 End line table Inspection Report of SNOWTEX Outwear Ltd.

3.4.1 End Table inspection Report-1

we have collected some sewing end line report from Magpie composite textile ltd & SNOWTEX Outwear Ltd and this report is one of them which is collected from SNOWTEX Outwear Ltd:

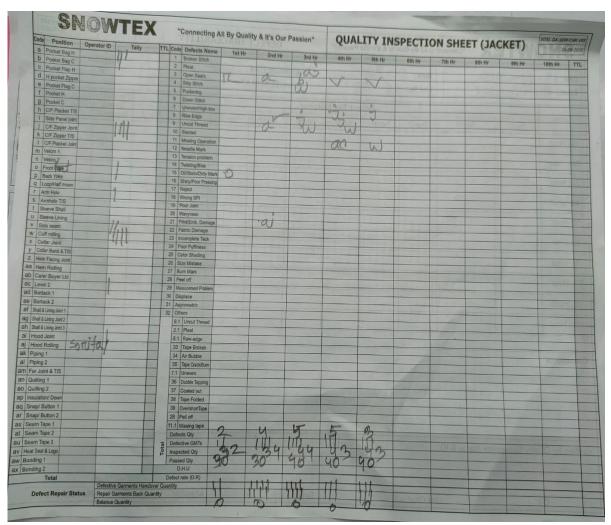


Figure: 3.4.1 End Table inspection Report-1.



END LINE TABLE INSPECTION REPORT OF SNOWTEX Outwear Ltd.

| Date | buyer | Color | Item | Line |
|----------|-------|--------|--------|-------|
| 08/01/23 | BERNE | YELLOW | JACKET | 2d 06 |

| HOURS | 1hr | 2hr | 3hr | 4hr | 5hr | 6hr | 7hr | 8hr | 9hr | 10hr | total |
|--------------|-----|-----|-----|-----|-----|-----|---------|----------|--------|------|-------|
| Inspection | 32 | 34 | 44 | 43 | 43 | | | | | | 196 |
| Good | 30 | 30 | 40 | 40 | 40 | | | | | | 180 |
| defect | 2 | 4 | 5 | 5 | 3 | | | | | | 19 |
| Defect Name | | | | | | | | | | | |
| pleat | | | 1 | | | | | | | | 1 |
| skip stitch | | | 1 | | | | | | | | 1 |
| Open seam | 1 | 1 | 1 | 1 | 1 | | | | | | 5 |
| Uneven high- | | | | 1 | 1 | | | | | | 2 |
| low | | | | | | | | | | | |
| Raw edge | | | 1 | 1 | | | | | | | 2 |
| Oil mark | 1 | | | | | | | | | | 1 |
| Uncut thread | | 2 | 1 | 1 | | | | | | | 4 |
| Missing | | | | | | | | | | | |
| operation | | | | | | | | | | | |
| Embroidery | | | | | | | | | | | |
| damage | | | | | | | | | | | |
| Open stitch | | | | | | | | | | | |
| /seam | | | | | | | | | | | |
| Needle cut | | | | | | | | | | | |
| Sleeve Pleat | | | | | | | | | | | |
| | | | | | | | | | | | |
| Label join | | | | | | | | | | | |
| Uncut thread | | | | | | | | | | | |
| Size mistake | | | | | | | | | | | |
| Wrong trims | | | | | | | | | | | |
| down stitch | | | | | | | | | | | |
| Others | | | | | | | | | | | |
| | | | | | | | Total o | defect 1 | numbei | r=16 | |

Table: 3.9 End table inspection report of SOL-1



The report is collected in 08/01/23 from SOL. The item type is jacket and color is yellow and the buyer name is BERNE. The line number is 2D06. From the report we can see that total 196 garment is inspected and where 180 garments good 19 defect item found and no item is rejected. Which DHU=8.16%

3.4.1 End Table inspection Report-2

we have collected some sewing end line report from Magpie composite textile ltd & SNOWTEX Outwear Ltd and this report is one of them which is collected from SNOWTEX Outwear Ltd:

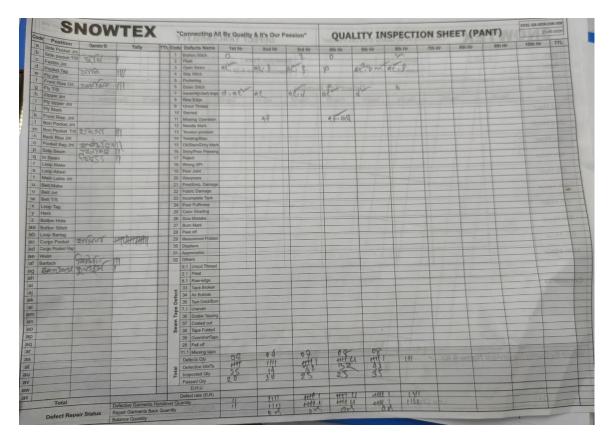


Figure:3.4.2 End Table inspection Report-2



END LINE TABLE INSPECTION REPORT OF SOL

Table: 3.10 End table inspection report of SOL-2

| Date | buyer | Color | Item | Line |
|----------|---------|-------|-------|-------|
| 17/01/23 | Kontoor | black | pants | 2d 09 |

| HOURS | 1hr | 2hr | 3hr | 4hr | 5hr | 6hr | 7hr | 8hr | 9hr | 10hr | total |
|---------------|-----|-----|-----|-----|-----|-----|---------|---------|-------|------|-------|
| Inspection | 25 | 14 | 31 | 32 | 41 | | | | | | 143 |
| Good | 20 | 10 | 25 | 25 | 35 | | | | | | 105 |
| Defect GMTs | 6 | 4 | 7 | 8 | 8 | | | | | | 33 |
| Defect Name | | | | | | | | | | | |
| pleat | | | | | | | | | | | |
| skip stitch | | | 1 | | | | | | | | 1 |
| Open seam | 2 | 2 | 3 | 3 | 6 | 3 | | | | | 19 |
| Uneven high- | 3 | 1 | 3 | 3 | 2 | | | | | | 12 |
| low | | | | | | | | | | | |
| Raw edge | | | | | | | | | | | |
| Oil mark | | | | | | | | | | | |
| Uncut thread | | | | | | | | | | | |
| Missing | | 1 | | 3 | | | | | | | 4 |
| operation | | | | | | | | | | | |
| Embroidery | | | | | | | | | | | |
| damage | | | | | | | | | | | |
| Open | | | | | | | | | | | |
| stitch/seam | | | | | | | | | | | |
| Needle cut | | | | | | | | | | | |
| Sleeve Pleat | | | | | | | | | | | |
| Broken stitch | 1 | | 1 | 1 | | 1 | | | | | 4 |
| Label join | | | | | | | | | | | |
| Uncut thread | | | | | | | | | | | |
| Size mistake | | | | | | | | | | | |
| Wrong trims | | | | | | | | | | | |
| down stitch | | | | | | | | | | | |
| others | | | | | | | | | | | |
| | | | | | | T | otal de | fect nu | mber= | 40 | |

The report is collected in 17/01/23 from SOL. The item type is Pants and color is BLACK and the buyer name is Kontoor. The line number is 2D09. From the report we can see that total 143 garment is inspected and where 105 garments good 33 defect item found and no item is rejected. Which DHU=27.97%



3.4.3 End Table inspection Report-3

we have collected some sewing end line report from Magpie composite textile ltd & SNOWTEX Outwear Ltd and this report is one of them which is collected from SNOWTEX Outwear Ltd:

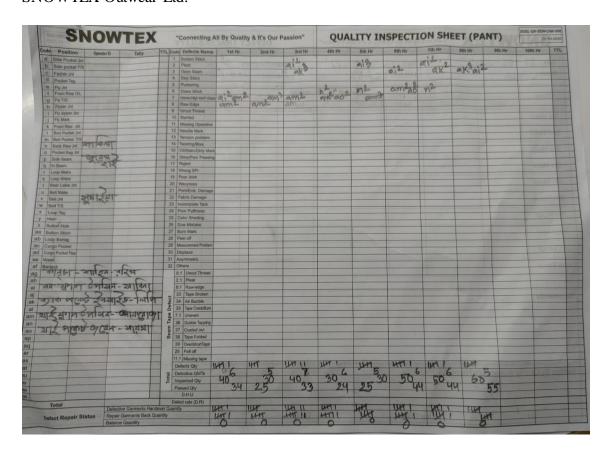


Figure:3.4.3 End Table inspection Report-3



END LINE TABLE INSPECTION REPORT OF SOL

Table: 3.10 End table inspection report of SOL-3

| Date | buye | r | | Colo | r | | | Iter | n | | Line | e |
|---------------|-------|-----|-----|-------|-----|-------|-----|------|-------|-------|------|-------|
| 17/01/23 | konto | oor | | black | | | | par | nts | | 2d1 | 1 |
| HOURS | 1hr | 2hr | 3hr | 4hr | 5hr | 6hr | 7h | ır | 8hr | 9hr | 10hr | total |
| Inspection | 40 | 30 | 40 | 30 | 30 | 50 | 50 |) | 60 | | | 330 |
| good | 34 | 25 | 33 | 24 | 25 | 44 | 44 | 1 | 55 | | | 284 |
| Defect GMTs | 6 | 5 | 7 | 6 | 5 | 6 | 6 | | 5 | | | 46 |
| Defect Name | | | | | | | | | | | | |
| pleat | | | 2 | | | | 2 | | | | | 4 |
| skip stitch | | | | | | | | | | | | |
| Open seam | | | 3 | | | 2 | 2 | | 5 | | | 12 |
| Uneven high- | 4 | 3 | 2 | 4 | | | | | | | | 13 |
| low | | | | | | | | | | | | |
| Raw edge | 2 | 2 | | | | | | | | | | 4 |
| Oil mark | | | | | | | | | | | | |
| Uncut thread | | | | | | | | | | | | |
| Missing | | | | | | | | | | | | |
| operation | | | | | | | | | | | | |
| Embroidery | | | | | | | | | | | | |
| damage | | | | | | | | | | | | |
| Needle cut | | | | | | | | | | | | |
| Sleeve Pleat | | | | | | | | | | | | |
| Broken stitch | | | | | | | | | | | | |
| Label join | | | | | | | | | | | | |
| Uncut thread | | | | | | | | | | | | |
| Size mistake | | | | | | | | | | | | |
| Wrong trims | | | | | | | | | | | | |
| down stitch | | | | | | | | | | | | |
| others | | | | | | | | | | | | |
| | | | | | | Total | def | fect | numbe | er=33 | | |
| | | | | | | | | | | | | |

The report is collected in 17/01/23 from SOL. The item type is pants and color is black and the buyer name is kontoor. The line number is 2D 11. From the report we can see that total 330 garment is inspected and where 284 garments good 46 defect item found. Which

DHU=10%



3.4.4 End Table inspection Report-4

we have collected some sewing end line report from Magpie composite textile ltd & SNOWTEX Outwear Ltd and this report is one of them which is collected from SNOWTEX Outwear Ltd:



Figure: 3.4.4 End Table inspection Report-4



END LINE TABLE INSPECTION REPORT OF SOL

Table:3.11 End table inspection report of SOL-4

| Date | buyer | Color | Item | Line |
|----------|---------|-------|-------|------|
| 18/01/23 | kontoor | black | Pants | 2d04 |

| HOURS | 1hr | 2hr | 3hr | 4hr | 5hr | 6hr | 7hr | 8hr | 9hr | 10hr | total |
|---------------|-----|-----|-----|-----|-----|-----|-----|--------|---------|---------|-------|
| Inspection | 60 | 58 | 60 | 60 | 58 | 60 | 60 | 60 | 60 | 60 | 596 |
| Good | 50 | 50 | 50 | 50 | 50 | 53 | 51 | 52 | 51 | 50 | 507 |
| Defect | 10 | 8 | 10 | 10 | 8 | 7 | 9 | 8 | 9 | 10 | 89 |
| Defect Name | | | | | | | | | | | |
| pleat | | | | 2 | 2 | 1 | 1 | | | | 6 |
| skip stitch | | | | | | | | | | | |
| Open seam | 2 | 3 | 3 | 3 | | 4 | 2 | 2 | 2 | 2 | 23 |
| Uneven high- | 3 | 3 | 3 | 2 | 2 | | | | | | 13 |
| low | | | | | | | | | | | |
| Raw edge | | | | | | | | | | | |
| Oil mark | | | | | | | | | | | |
| Uncut thread | | | | | | | | | | | |
| Missing | | | | | | | 2 | 2 | 2 | 2 | 8 |
| operation | | | | | | | | | | | |
| Embroidery | | | | | | | | | | | |
| damage | | | | | | | | | | | |
| Sleeve Pleat | | | | | | | | | | | |
| Broken stitch | | | | | | | | | | | |
| Label join | | | | | | | | | | | |
| Uncut thread | | | | | | | | 2 | | 2 | 4 |
| Size mistake | | | | | | | | | | | |
| down stitch | 2 | | 4 | 3 | 3 | 4 | 1 | 3 | 2 | 2 | 24 |
| | | | | | | | T | otal d | efect 1 | number: | =72 |

The report is collected in 18/01/23 from SOL. The item type is pants and color is black and the buyer name is kontoor. The line number is 2D04. From the report we can see that total 596 garment is inspected and where 507 garments good 89 defect item found. Which

DHU=12.02%



3.4.6 End Table inspection Report-5

we have collected some sewing end line report from Magpie composite textile ltd & SNOWTEX Outwear Ltd and this report is one of them which is collected from SNOWTEX Outwear Ltd:

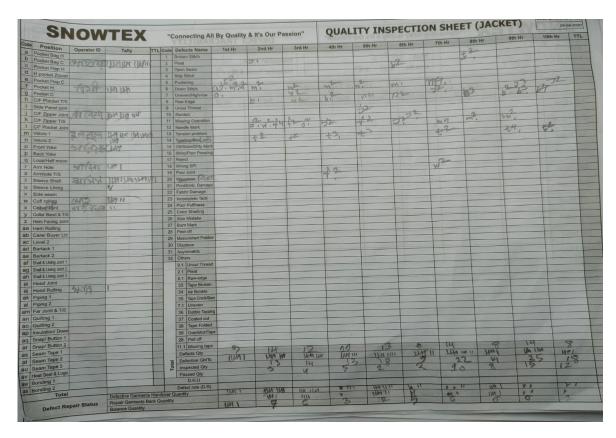


Figure: 3.4.5 End Table inspection Report-5



END LINE TABLE INSPECTION REPORT OF SOL

we have collected some sewing end line report from Magpie composite textile ltd & SNOWTEX Outwear Ltd and this report is one of them which is collected from SOL

| Date | buyer | Color | Item | Line |
|----------|-------|-------|--------|------|
| 19/01/23 | BERNE | GREY | Jacket | 2D03 |

| HOURS | 1hr | 2hr | 3hr | 4hr | 5hr | 6hr | 7hr | 8hr | 9hr | 10hr | total |
|---------------|-----|-----|-----|-----|-----|-----|-------|--------|-------|------|-------|
| Inspection | 13 | 14 | 13 | 18 | 18 | 9 | 22 | 14 | 25 | 18 | 164 |
| Good | 3 | 4 | 5 | 2 | 2 | 2 | 10 | 8 | 15 | 12 | 63 |
| Defective | | | | | | | | | | | |
| GMTs | | | | | | | | | | | |
| Defect Name | | | | | | | | | | | |
| pleat | | 1 | | | | | | 2 | | | 3 |
| skip stitch | | | | | | | | | | | |
| Open seam | | | | | | | | | | | |
| Uneven high- | 1 | | 2 | | | | 2 | | 3 | 2 | 10 |
| low | | | | | | | | | | | |
| Raw edge | 1 | 2 | 2 | 2 | 2 | | | | 5 | 4 | 18 |
| Oil mark | | | | | | | | | | | |
| Uncut thread | | | | | | | | | | | |
| Missing | | | | | | | | | | | |
| operation | | | | | | | | | | | |
| Embroidery | | | | | | | | | | | |
| damage | | | | | | | | | | | |
| Needle cut | | | | | | | | | | | |
| PUCKERING | 2 | | | | | | | | | | 2 |
| Broken stitch | | | | | | | | | | | |
| Label join | | | | | | | | | | | |
| Uncut thread | | | | | | | | 2 | | 2 | 4 |
| Size mistake | | | | | | | | | | | |
| down stitch | 6 | 2 | 2 | 2 | 2 | 1 | 4 | | | | 19 |
| Needle mark | | 8 | 4 | 2 | 2 | 2 | 4 | 3 | 2 | | 27 |
| | | | | | | | Total | defect | numbe | r=63 | |

Table: 3.12 End table inspection report of SOL-5

The report is collected in 19/01/23 from SOL. The item type is jacket and color is grey and the buyer name is BERNE. The line number is 2d03. From the report we can see that total 164 garment is inspected and where 63 garments good.

And DHU= 50.67%



3.5 Sewing Garments Inspection Report of SOL (5 days)

| Date | Check pcs | pleat | skip stitch | Open | Uneven high-low | Raw edge | Oil mark | Uncut thread | Missing operation | Embroide ry damage | puckering | Broken stitch | Label join | Uncut thread | down stitch | Needle mark | Total |
|------------------|-----------|-------|-------------|---------|--------------------|----------|----------|-----------------|-------------------|-----------------------|-----------|------------------|------------|-----------------|----------------|----------------|-------|
| 08/ 01/ 23 | 19 6 | 1 | 1 | 5 | 2 | 2 | 1 | 4 | | 1 | | | | | | | 17 |
| 11/ 01/ 23 | 14 3 | | | 17 | 12 | | | | 4 | | | 4 | | | | | 37 |
| 17/ 01/ 23 | 33 0 | 2 | | 14 | 13 | 4 | | | | | | | | | | | 33 |
| 18/ 01/ 23 | 59 6 | 6 | | 23 | 13 | | | 4 | 8 | | | 11 | | | 24 | | 89 |
| 19/ 1/2 3 | 14 6 | 3 | | | 10 | 18 | | | | | 2 | | | | 19 | 27 | 79 |
| | 14 11 | 12 | 1 | 59 | 50 | 24 | 1 | 8 | 12 | 1 | 2 | 15 | | | 43 | 27 | 255 |
| Total | pcs | 4.70% | %68.0 | 23.14 % | % 09'61 | 9.41% | 39% | 3.14% | 4.70 % | % 68.0 | % 82.0 | %68.5 | | | 16.86 % | %65.01 | |

Table: 3.13 Sewing Garments Inspection Report of SOL (5 days).

DHU=18.07%

This is the summary of SOL 5day Garments Inspection Report. From the report we can see that total garments inspection quantity of each day and total fault amount in percentage. Here the most occurring faults is open seam which is 23.24% and second is uneven high low 19.60% and the minimum amount is skip stitch in SOL which is 0.39%.



CHAPTER 4

4.0 RESULT AND DISCUSSION

4.1 Sewing End Line Inspection Report of MCTL (Summary)

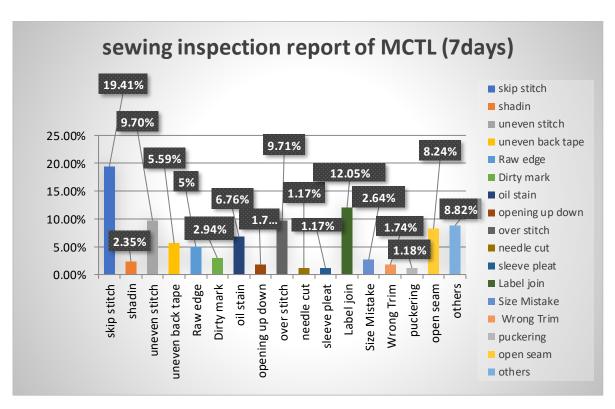


Figure:4.1 sewing inspection report of MCTL (7days)

This is the summary of End Line Inspection Report which we have collected from Magpie Composite Textile Limited. We have collected 7 days reports from different Line and Different Buyers Products. And the Result is visible in the pie chart, which are 21% skip stitch, 11% Uneven Stitch, 11% puckering, 9% open seam, Label Join 13%, 2% shading, 2% Needle cut, 2% wrong trim, 7% sleeve Pleat, 3% Raw edge, 2% Uneven Back Tape, 7% sleeve Pleat, 3% Dirty Mark and 5% others.

So, most occurring Fault in Magpie composite Textile ltd is skip stitch uneven stitch and Label Join.



4.2 Sewing End Line Inspection Report of SOL(Summary)

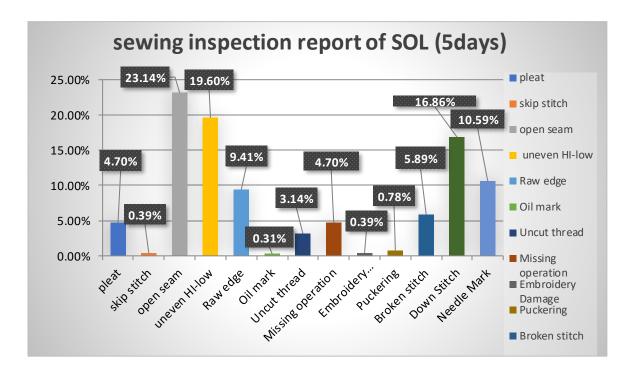


Figure: 4.2 sewing inspection report of SOL (5days)

This the Summary of End Line Inspection report which is collected by us from SNOWTEX outwear ltd. We have collected 5 days report from different production line. And the result is visible in the pie chart. Where 23% Open Seam, 16.86% Down Stitch, 20% uneven HI Low, 10.59% Needle Mark, 5.89% broken Stitch, 4.70% Missing Operation, 0.39% Skip Stitch4.70% pleat. From the report we can see that the highest amount of fault is Open Seam which is 23.14% and the Lowest occurring fault is skip stitch in SNOWTEX outwear ltd.



4.3 Comparison of Sewing Defects Percentage between 2 factories:

| SL | Defects | Magpie composite Textile | Snowtex Outwear Ltd. |
|----|-------------------|--------------------------|----------------------|
| | | Ltd. | |
| 1 | Skip stitch | 19.41% | 0.39% |
| 2 | Uneven stitch | 9.70% | 0% |
| 3 | Raw-edge | 5% | 9.41% |
| 4 | Dirty Mark | 2.94% | 0% |
| 5 | Oil Stain | 6.76% | 0.39% |
| 6 | Over stitch | 9.41% | 0% |
| 7 | Pleat | 1.17% | 4.70% |
| 8 | Label Join | 12.05% | 0% |
| 9 | Puckering | 1.18% | 0.78% |
| 10 | Open Seam | 8.24% | 23.14% |
| 11 | Down Stitch | 0% | 16.86% |
| 12 | Size mistake | 2.64% | 0% |
| 13 | Uncut thread | 0% | 3.14% |
| 14 | Missing operation | 0% | 4.70% |
| 15 | Uneven hi-low | 0% | 19.6% |
| 16 | Needle mark | 0% | 10.59% |
| 17 | Broken stitch | 0% | 5.89% |

Table: 4.1 Comparison of Sewing Defects Percentage between 2 factories

This is the comparison Table of sewing Defects in percentage between 2 factories those factories are Magpie composite textile Ltd (MCTL) and Snowtex Outwear Ltd (SOL). From the table we can see that defects are varied for different factories. Skip stitch is 19.41% in MCTL but 0.39% in SOL, uneven stitch is 9.70% in MCTL & 0% in SOL, Raw-edge is 5% in MCTL and 9.41% in SOL, Dirty Mark is 2.94 in MCTL & 0% in SOL, oil stain is 6.76% in MCTL & 0.39% in SOL, over stitch is 9.41% in MCTL & 0% in SOL, pleat is 1.17% in MCTL & 4.70% in SOL, Label join is 12.05% in MCTL & 0% in SOL, puckering is 1.18% in MCTL &0.78% in



SOL, Down Stitch is 16.86% in SOL but 0% in MCTL, size mistake is 2.64% in MCTL and 0% in SOL, uncut thread is 0% in MCTL & 3.14% in SOL missing operation is)5 in MCTL and 4.70% in SOL, uneven hi- Low is 0% in MCTL but 19.6% in SOL, Needle Mark is 0% in MCTL but 10.59% in SOL. here defect percentage are different for different factories. From upper information found some defects which are common in both Factories those are Skip stitch, Open seam, Uneven stitch, Raw edge, Down stitch.

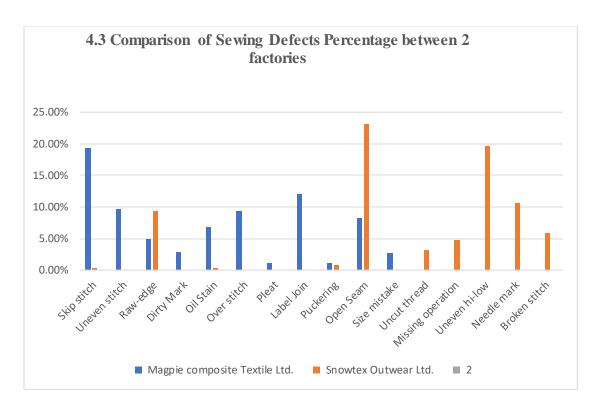


Figure: 4.3 Comparison of Sewing Defects Percentage between 2 factories



4.4 Major 5 Defect found from two factories:

- > Skip stitch.
- Open seam.
- ➤ Uneven stitch.
- Raw edge.
- > Down stitch

Discussion:

4.4.1 Skip stitch:

This is a sewing fault Occurred for machine defect.



Figure: 4.4.1 Skip Stitch.

Causes:

- > Shorts needle loop.
- > Hight tension in needle thread.
- > Wrong needle size.

Remedies:

- > Thread tension should be perfect.
- Accurate size needle must be used.
- ➤ Machine should be service timely.



4.4.2 Open seam:

This is the sewing problem where two edge of fabric not attached completely after sewing.



Figure: 4.4.2 Open Seam

Causes:

- > Needle and looper timing mismatch.
- > Improper parts handling of garments.

Remedies:

- > Machine Service for needle and looper.
- > Start Operators training.
- > Proper thread tension should be used.



4.4.3 Uneven stitch:

The stitch line is not even or not straight is called uneven stitch.



Figure: 4.4.3 Uneven Stitch

Cause:

- > Operators poor sewing skill.
- > Too much pulling garments during sewing.
- For poor quality thread.
- > For soft Fabric

Remedies:

- > By Avoiding excess pulling garments during sewing.
- > By using good quality thread.
- > By operators training.
- > By using right Needles according to fabric types.

4.4.4 Down stitch: Down stitch can be defined as a fault where stitch line did not place in the right path.





Figure: 4.4.4 Down stitch

Causes:

- > For unskilled operator.
- > Carelessness in work.
- > Improper machine speed.

Remedies:

- > By setting proper guide.
- > By using skilled operators.
- > By maintain machine speed.



4.4.5 Row-edge: Excess fabric is shown in sewing line after sewing is raw-edge.



Figure: 4.4.5 Raw- edge.

Causes:

- > For unskilled operator.
- > Improper panels cutting.

Remedies:

- > By proper panels cutting in cutting section.
- > By using skilled operators.



CHAPTER-5

5.1 Conclusion:

The project is all about sewing fault and its remedies. We have completed our project using two factories information, those are Magpie composite textile ltd another one is SNOWTEX outwear ltd. For the project we have collected many ends line table quality inspection report. After analysis those report we found some major faults which Remedies we found from factories. SNOWTEX outwear ltd 5day DHU= 18.07% and Magpie composite textile ltd 7day DHU=3.69%. sewing should be controlled to improve production. Most common 3 Faults in SNOWTEX outwear ltd is open seam, uneven HI Low, Down stitch and for Magpie composite textile ltd skip stitch, uneven stitch, and label join. We choose 3 faults from all faults and found those remedies in this project and this will be very helpful to reduce those problem.



Reference: GARMENTS & TECHNOLOGY by prof. M A kashem, granthanir prokashoni.



Sewing Faults

| 878303 | RITY INDEX | INTERNET SOURCES | PUBLICATIONS | STUDENT P. | APERS |
|---------|--------------------------|-------------------|----------------|------------|-------|
| PRIMARI | Submitt Student Pape | ed to Daffodil Ir | nternational U | niversity | 6 |
| 2 | dspace. | daffodilvarsity.e | edu.bd:8080 | | 6 |
| 3 | southea Internet Sour | stseafishing.co | m | | 2 |
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| 5 | www.sli | deshare.net | | | <1 |