



Daffodil
International
University

Faculty of Engineering

Department of Textile Engineering

Thesis Title: Study on Quality Issues in Cutting Section.

Submitted by: Anik Sorker

Student's Name: Anik Sorker

Student's ID: 173-32-350

Supervised by: Prof. Dr. Md. Mahbubul Haque

Supervisor's name: Prof. Dr. Md. Mahbubul Haque

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

June, 2023

ACKNOWLEDGEMENT

At first I am thankful to the Almighty who gave me the strength and determination to carry on. It has been a great experience for me and I believe that this project will surely help us for Study on cutting section in quality issues.

I would like to express my special thanks of gratitude to my respected and supervising teacher Prof. Dr. Md. Mahbubul Haque, PhD (UK) CText FTI, for his exemplary guidance, constant encouragement and support in completing my project. He has enriched me with necessary ideas and concept for incessant improvement of the report.

I express my indebtedness to the Honorable Vice Chancellor, Chairman, Register and every Department of Daffodil International University for providing me the working facility for my project.

I thank you all from the core of my heart.

DECLARATION

I hereby declare that, this project has been done by me under the supervision of Prof. Dr. Md. Mahbubul Haque, Professor, Department of Textile Engineering, Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

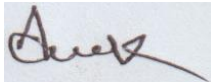
Submitted by:

Anik Sorker

ID: 173-32-350

Department of Textile Engineering

Daffodil International University



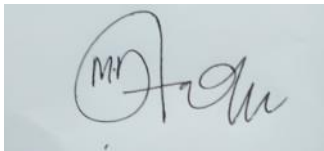
Supervised by:

Prof. Dr. Md. Mahbubul Haque,

Professor,

Department of Textile Engineering,

Daffodil International University.



ABSTRACT

My Thesis Topic is Study On "Quality on quality issues in cutting section" for the collecting Fabric inspection data of Meghna executive Holding ltd. In this project I prepared based Fabric Cutting procedure, Fabric Inspection, fabric relaxation Manually or steam relaxation machine. According to plan send to cutting table, table preparation, then ratio chart Marker Making, Marker placing all body and parts on the laying , shade and batch wise laying confirm by quality, fabric cutting, Sorting & bundling, then cut panel inspection found the fabric falt,there are different types of fault and their remedies which is done before assembled into a completed a product. Here is I what on the three buyer. Buyer M&S, Stanley stella, Matalan. Buyer M&S Total check goods 55216 pcs & ok goods 53650 pcs , panel check 189125 ok panel 183628.total defect goods,1566 pcs. Buyer Stanley stella check goods 87632 pcs, ok goods 84731 pcs & panel check 322818 ok panel 32049, total defective goods 2900 pcs, buyer Matalan check goods 65223 pcs ok goods 93853 pcs, & panel check 259168 ok panel 368351.

The main point of garments industry is that the fabric cutting section, all types of defects in the fabric must be identified, Otherwise production cost would be rise which causes a great damage for the industry

To produce a quality product, the fabric must be first be properly inspected. Proper Cutting could be save more production damage.

Contents

| | |
|---|---|
| CHAPTER-1..... | 1 |
| 1.1 Introduction..... | 2 |
| CHAPTER-02 | 3 |
| Literature Review..... | 3 |
| 2.1 Cutting..... | 4 |
| 2.2 The Following are the main Objective of the Cutting Section..... | 4 |
| 2.3 Types of quality cutting section..... | 4 |
| 2.4 Objective of cutting | 4 |
| 2.5 fabric Cutting..... | 5 |
| 2.6 Quality Control of the cutting section mainly divided into four point , these are | 5 |
| 2.7 Marker Inspection following are inspected | 5 |
| 2.8 Following work in Spreading quality Control..... | 5 |
| 2.9 Cutting quality Control..... | 5 |
| CHAPTER-03 | |
| Methodology..... | 6 |
| 3.1 Methodology..... | 7 |
| 3.2 It can be also defined | 7 |
| 3.3 Fabric Relaxation..... | 7 |
| 3.4 Fabric Relaxation Procedure..... | 7 |
| 3.5 FabricRelaxation | 9 |
| Study on measurement of test finish sample garments..... | 9 |
| 3.6 Marker Making..... | 9 |

| | |
|--|----|
| 3.7 Marker Accuracy Inspection..... | 10 |
| 3.9 Arrangements of marker making..... | 10 |
| 3.10 Advantage and Disadvantage of the marker making..... | 10 |
| 3.11 Numbering..... | 11 |
| 3.12 Bundling..... | 12 |
| 3.13 Cut panel Inspection..... | 12 |
| 3.14 Table Observation..... | 15 |
| Study on first Cutting cut panel..... | 16 |
| 3.15 Table Observation..... | 17 |
| 3.16 Observation of finish garments measurement..... | 18 |
| 3.17 Table Observation..... | 19 |
| Empirical Details..... | 21 |
| 3 Days Cut panel Inspection Report Buyer M&S..... | 21 |
| 3.18 Table Observation..... | 22 |
| 3.19 Table Observation..... | 23 |
| 3.20 Cumulative Observation..... | 23 |
| 3 Days Cut panel Inspection Report Buyer Stanley Stella..... | 24 |
| 3.21 Table Observation..... | 25 |
| 3.22 Table Observation Summary..... | 26 |
| 3.23 Cumulative Observation..... | 26 |
| 3 Days Cut panel Inspection Report Buyer Matalan..... | 28 |
| 3.24 Table Observation..... | 29 |
| 3.25 Table Observatio..... | 29 |
| 3.26 Table Observation..... | 30 |
| 3.27 Cumulative Observation..... | 30 |
| Buyer: M&S..... | 31 |
| Buyer: Stanley Stella..... | 33 |
| Buyer: Matalan..... | 35 |
| Cumulative Observation..... | 38 |

List of Figure:

| | |
|---|----|
| FIGURE: 5.1 Fabric Relaxation trolley..... | 8 |
| FIGURE: 5.2 Fabric Relaxation Chart..... | 8 |
| FIGURE: 5.3 Finish Garments Test Measurement Analysis Report..... | 9 |
| FIGURE: 5.4 Marker Accuracy Check Quality..... | 10 |
| FIGURE: 5.5 Panel Numbering..... | 12 |
| FIGURE: 5.6 Panel Bundling..... | 13 |
| FIGURE: 5.7 Cut panel inspection (CPI)..... | 14 |
| FIGURE : 5.8 Fabric relaxation chart..... | 19 |
| FIGURE : Finish garments chart..... | 20 |
| BUYER M&S | |
| FIGURE: 5.10 Cut Panel Defect Chart..... | 32 |
| FIGURE: 5.11 Final Cut panel inspection report..... | 32 |
| BUYER: Stanley stella | |
| FIGURE: 5.12 Cut Panel Defect Chart..... | 34 |

| | |
|--|----|
| FIGURE: 5.13 Cut Panel Defect Chart | 34 |
| BUYER: Matalan | |
| FIGURE: 5.14 Cut Panel Defect Chart | 36 |
| FIGURE: 5.15 Cut Panel Defect Chart..... | 36 |
| FIGURE: 5.16 High Defect % | 37 |
| List of Table: | |
| Table: 6.1 Fabric Relaxation chart..... | 15 |
| Table: 6.2 Pattern Check For Frist Cutting | 17 |
| Table: 6.3 Finish Garments Measurements | 18 |
| 3 Days Cut panel Inspection Report Buyer M&S | |
| Table: 6.4 Cut Panel Inspection 1 st day..... | 22 |
| Table: 6.5 Cut Panel Inspection 2 nd day | 22 |
| Table: 6.6 Cut Panel Inspection 3 rd day | 23 |
| 3 Days Cut panel Inspection Report Buyer Stanley Stella | |
| Table: 6.7 Cut Panel Inspection 1 st day | 25 |
| Table: 6.8 Cut Panel Inspection 2 nd day | 25 |
| Table: 6.9 Cut Panel Inspection 3 rd day | 26 |
| 3 Days Cut panel Inspection Report Buyer Matalan. | |
| Table: 6.10 Cut Panel Inspection 1 st day | 28 |
| Table: 6.11 Cut Panel Inspection 2 nd day..... | 28 |
| Table: 6.12 Cut Panel Inspection 2 nd day | 29 |
| Cumulative Observation..... | 38 |
| CHAPTER-04 | |
| Reference..... | 39 |

CHAPTER- 01
INTTRODUCTION

1.1 Introduction:

The topic that I have chosen for my thesis is that of a study on cutting section quality issues. One first learns how to make a quality garment by inspecting fabric and receiving cutting, relaxation, test cutting panel measurement, marker measurement, and finish garment measurements. After bulk cutting, fabric spreading, cutting sorting and bundling, and final cut panel inspection, these operations are in the cutting section of Meghna Group Industries, a 100% export-oriented garments company. How to defect fabric and cut panel defects is discussed in the cutting section. A skilled cutter is required to cut the cloth. It is cut manually and automatically. No matter how the cloth is cut, the quality must be taken care of. First of all, check if the table is right, and according to the length of the fabric, if there is any problem, Then the length of the marker measurement The length of the table is measured according to the length in markers, fast thin paper laid, and fabric laid, one by one quality check. During automatic laying, you must pay attention to the spreading machine speed of the machine is not too low or too high, and you must pay attention to the machine tension according to the fabric, otherwise wrinkling may occur. A study on the quality of the cutting section has shown that to make a garment, one should know what quality to look for and how to find out the cutting defects and control them in the cutting section to produce a good-quality garment. If so, what aspects have to be considered are highlighted through this research. the cutting section's point-to-point quality reaches.

CHAPTER: 02
Literature Review

2.1- Cutting

Cutting is one off the major department of garments section. Garments section main work has been cutting section Fabric received from to cutting and fabric cutting, If the fabric is not properly in the cutting, then the quality of the fabric not to be good. is called the main point of the garments department. A study on the quality of the cutting section has shown that to make a garment one should know what a quality to look for a how to find out the cutting defects and control them from the cutting Section to procedure a good quality Garments. if so, what aspects have to be considered are highlighted through this research. the cutting section point to point quality reaches.

2.2 The following are the main objective of cutting quality section.

- i. Must have good knowledge Cutting Quality.
- ii. Must have good knowledge marker CAD.
- iii. Must have good knowledge Fabric GSM and spreading Quality.

2.3 Types of quality control cutting section

- i. Fabric Inspection
- ii. Fabric GSM & Shrinkage test.
- iii. Relaxation for fabric as per fabric composition.
- iv. Style Buyer Po check.
- v. Marker check.
- vi. Shade band check

2.4 Objective of cutting.

- i. Fast the cloth will be brought from the to the cutting section.
- ii. Then style buyer color should be separately kept the rack.
- iii. The fabric should be relaxed according to plan.
- iv. Before fabric cutting, have to fabric test shrinkage, GSM.
- v. To make the fabric to the marker and check that the layout is correct.
- vi. To make garments according the shape and the required design.
- vii. At fast fabric up to cutting from store Then keep it separate.
- viii. Then according to the consumption of the fabric, you have to relax and separate put in the tolly.
- ix. To make the fabric according to the marker and check that the layout is correct.
- x. To make garments according the shape and the required design.
- xi. After cutting, the cutting parts & body properly numbering bundling and checked.

2.5 Fabric cutting:

After the fabric Spreading done, Marker paper is laid on the fabric and marker checked by quality and prepared by cutting Manual or Auto cutter selected the. machine speed should be control. fabric cutting is very important things of cutting section. Cutting is first working department of the garments.

2.6 Quality control of the cutting section mainly divided into four points.

Those are:

- i. Marker Inspection
- ii. Spreading Control
- iii. Cutting Quality control
- iv. Spreading Machine tension check.
- v. Piece Goods Inspect

2.7 marker Inspection Following are inspected

- i. Marker Length
- ii. Marker width
- iii. Lay quantity
- iv. Style/Lot
- v. Ratio
- vi. The measure of all individual parts marked in marker.

2.8 Following work in Spreading Quality control

- i. Buyer, style
- ii. Ends bits Roll or Shade wise.
- iii. Machine Tension
- iv. Machine Speed
- v. Machine sensor check minimum 2 meter.
- vi. Fabric wise ply height
- vii. Fabric Fault

2.9 Cutting Quality Control.

- i. Number of parts
- ii. Miss cut
- iii. Ragged cutting
- iv. Notches
- v. Matching plies

CHAPTER- 03
Methodology

3.1 Methodology:

Methodology is the conceptual and systematic evaluation of the method applied to a research field. This involves the systematic study of the body of knowledge related approaches and concepts. This typically includes terms such as theory, theoretical model, stage, and techniques of quantitative nature.

3.2 It can be also defined as below:

The analysis of the principle of method, rules, and condition employed a discipline the systematic study of methods that are can be or have been applied within a discipline. The study or description method.

3.3 Fabric Relaxation:

Rolling And Folding Fabric Comes from Cutting Section Relaxation Area. Generally, Steam is used for fabric relaxation. Any fabric relaxation for steam relaxation machine. Single jersey fabric After relaxation and cutting, viscose fabric steam relaxation after 4- 6 cutting, Viscose fabric generally Shrinkage and GSM are control by relaxation. No need of any steam.

3.4 Fabric relaxation procedure:

- i. 100% cotton has to relaxed Time -12 hours
- ii. 50% cotton & 50% spandex has to relaxed -24 hours.
- iii. 95 % above spandex has to be relaxed -48 hours.
- iv. 100% maintain roll to roll & batch to batch. date & time insure relaxation paper.



Figure: 5.1 Fabric Relaxation Trolley

EXECUTIVE GREENTEX LTD.
FABRIC RELAXATION REPORT
CUTTING SECTION

Start date: 3-2-22
End date: 3-2-22

| SL NO: | Buyer | Style | Supplier | Fab. Type | GSM | Color | Batch No | Roll No | Shade | Qty(Mtr)/K G | Start Time | End Time | Remarks |
|--------|-------|-------|----------|-----------|-----|--------|----------|---------|-------|--------------|------------|----------|---------|
| 1 | mgs | 1210 | m kcl | 100%/c/w | 250 | Blonde | 27366 | 26 | A | 20 | 11:20A | 11:24P | |
| 2 | ' | ' | ' | ' | ' | ' | ' | 27 | A | 20 | 11:26A | 11:29P | |
| 3 | ' | ' | ' | ' | ' | ' | ' | 28 | A | 66 | 11:30A | 11:34P | |
| 4 | ' | ' | ' | ' | ' | ' | ' | 29 | A | 20 | 11:35A | 11:39P | |
| 5 | ' | ' | ' | ' | ' | ' | ' | 30 | A | 32 | 11:40A | 11:44P | |
| 6 | ' | ' | ' | ' | ' | ' | ' | 31 | A | 11 | 11:46A | 11:49P | |
| 7 | ' | ' | ' | ' | ' | ' | ' | 32 | A | 22 | 11:50A | 11:54P | |
| 8 | ' | ' | ' | ' | ' | ' | ' | 33 | A | 23 | 11:55A | 11:59P | =12 H |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |

SUPERVISOR _____ EXECUTIVE _____ IE _____ Manager _____

Figure: 5.2 Fabric relaxation chart

3.5 Fabric Relaxation:

After fabric relaxation completed keeping the relaxation trolley, according to fabric composition It keep the trolley according to the fabric section time. Keeping trolley. Single jersey fabric on time cutting, others fabric minimum 6 to 12 hour keep the trolley after steam relaxation machine used. Without Steam relaxation machine, Manually Fabric relaxation as per fabric composition.

| Description | | XS | S | M | L | XL |
|-------------|-------------------------------|------|------|------|------|------|
| A10 | Back Length Shoulder>Bottom | 55 | 57 | 58.5 | 60 | 61.5 |
| A11 | Back length>Waist | 35.3 | 36.3 | 37.3 | 38.3 | 39.3 |
| A10 | Front Length Shoulder>Bottom | 54.5 | 57 | 58.5 | 60 | 61.5 |
| C* | 1/2 Chest (2cm below armhole) | 31.5 | 35.5 | 38.5 | 41.5 | 44.5 |
| D* | 1/2 Waist | 30.5 | 34.5 | 37.5 | 40.5 | 43.5 |
| E05* | 1/2 Bottom | 33.5 | 37.5 | 40.5 | 43.5 | 46.5 |
| C* | Back neck width across | 18.5 | 19 | 19.5 | 20 | 20.5 |
| G01 | Neck drop back | 14 | 14 | 14 | 14 | 14.5 |
| G02* | Neck drop front | 14.5 | 15 | 15.5 | 16 | 16.5 |
| A11 | Binding height | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| A11 | Shoulder Length | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| A11 | Shoulder>Armhole at back | 18.5 | 19.5 | 20.5 | 21.5 | 22.5 |
| A11 | 1/2 Armhole | 20.2 | 22.2 | 23.6 | 25 | 26.4 |

Figur: 5.3 Finish Garments Test Meaurments Analysis Report.

STUDY ON MEASURMENT OF THE TEST FINISH SAMPLE GARMENTS.

A finished garments is basically attached the body , that is buyer requirement all garments parts are measured. All parts of the garments are measured then when order is made a sample garments is attached the garments with measurments .then when fabric quality is done the , 15 to 20 pieces of garments made, first pattern is measured then the cut panel measurd , then the cut panel making a garments.then they complete garments and part with measurement sheet.

3.6 Marker Making.

Marker making is an important issue to ensure maximum utilization of fabric is ready made garments industry. Marker & spreading Quality Control. Executive Greentex Ltd, Markers are created through Garber Software. The marker Efficiency maximum 85% to 87%. One important thing is that the marker is created by properly utilized the fabric wastage. The marker is usually a thin piece of paper on which all parts of a Garment are placed in such a way to make completed using the least amount of fabric which is done through HARBER SOFTWARE So the marker Efficiency is to be 85 % TO 87%.

3.10 Advantage and Disadvantage of marker making.

Advantages:

- i. Marker can be made quickly with this method
- ii. Waste of clothes is reduced.
- iii. Wrong marker making can be solved quickly.

Disadvantages:

- i. Initial investment is higher than manual.
- ii. More skilled operator is needed than manual. I think everything has its positive and negative sides. But in comparison, the advantages of computerized marker are more than the manual. It increases the efficiency, workability and production of the factory. It saves valuable time and least fabric wastage. Thus, saves money too. Moreover, it attracts buyers with its modern facilities. So, I think, it would be better to use computerized marker making system i.e., Computer Aided Design (CAD) instead of manual method. So, the factory can think about it.

3.11 Numbering:

After Cutting the Fabrics, each part of different style fabric should be numbered to avoid mixing with the other color and fabric parts. Mainly number code maintain and style maintain size (e.g. small, medium, large, xl, xxl etc) Marker and layer number sequence. This is also called as layer making by numbering. If there is layer number n each component then at the time of stitching only correct component will be stitched together.



Figure: 5.5 Panel Numbering

3.12 Bundling:

After cutting the fabrics numbering then bundling must be serial wise bundle, bundle quantity 20 pcs to 30 pcs, should be style, po , flow up after bundle, basically flowered by garments size(eq, small ,medium, large, xl,) actually marker and ply sequence accurate , all number parts make by formed by worker, buyer, style, size, color, quantity all process.



Figure: 5.6 Panel Bundling

Figure: 5.7 Cut Panel Inspection (CPI)

According to CPI (cut panel inspection) system Make through, growing bundle or one-piece flow system. Check all part for CPI and found the defect , such as shedding, hole, spot Yarn missing knot ,slub, pin hole, measurement missing, Cush mark, line mark etc. Cut component are inspection is very important. Before send sewing section all component check ,there is every cut panel is checked thoroughly.100% defect part of the Check.

| Executive Greentex Ltd | | | | | | | |
|-------------------------|----------------|----------|--------------------------------|-----|------------|-----------------|------------------|
| Fabric Relaxation Chart | | | | | | | |
| | | | | | | | Date: 12-11-2022 |
| S.N | Buyer | Style | Fabric Type | GSM | Batch No | Relaxation Time | Qty.Meter |
| 1 | M&S | 4193 | 95% Poly-5% Ctn | 210 | 27828 | 48 | 12 |
| 2 | M&S | 7877 | 75%Ctn 20% Spandex 5 % Elastic | 250 | 30278 | 48 | 21 |
| 3 | M&S | 3110 | 85% Spandex 15 % Ctn | 200 | 27828 | 48 | 9 |
| 4 | Stanley Stella | Stsu-868 | 95% Elastic 5%ctn | 360 | P0T22-0253 | 48 | 18 |
| 5 | M&S | 7035 | 50%ctn 50 % Spandex | 180 | 22680 | 24 | 41 |
| 6 | M&S | 2046 | 100% Ctn | 140 | 22867 | 12 | 28 |

Table: 6.1 Fabric Relaxation Chart.

3.14 Table observation:

This Relaxation is an important factor after receiving the fabric in the cutting section, different types of fabric are relaxed in different ways. Here is the fabric relaxation time, batch no, GSM, Qty meter, is shown. Its fabric relaxation is not done correctly then the fabric measurement after cutting will be not be correct. Here is the 95% polyester 5% cotton relaxation time 48 hour, 75% cotton 20% spandex 5% elastic relaxation time 48-hour, 85% spandex 15% cotton relaxation time 48 hours, 95% elastic 5% cotton relaxation time 48 hours, 59% cotton 50% spandex relaxation time 24 hour, and 100% cotton relaxation time 12 hour, so fabric relaxation time is very important, if we without relaxation fabric cutting after garments making but garments measurement not be correct.

Study on Frist cutting cut panel, pattern & finish sample garments measurement.

| Cut Panel Measurement for size set (Frist cutting or test Cutting) | | | | | | | | | | | | | | | |
|---|------------|-------------|------|------|------|------------|-----|-----|------------|-------------|------------|----|-----|-----|-------------|
| Measurement Point | Size | 10 | | | Size | | | 12 | Size | | | 14 | | | |
| 1/2 WAIST LENGTH | BACK PAART | FRONNT PART | √ | √ | √ | BACK PAART | 0.6 | 0.6 | | FRONNT PART | BACK PAART | √ | √ | √ | FRONNT PART |
| BODY LENGTH CHEST | | | √ | √ | √ | | √ | √ | √ | | | √ | 0.5 | 0.5 | |
| CENTRE FRONT BOTTM | | | -0.5 | -0.5 | -0.5 | | √ | √ | √ | | | √ | √ | √ | |
| Jr. Supervisor QA | | DPM/APM | | | | | | | Manager QA | | | | | | |

Table: 6.2 Pattern Check for First Cutting

Table observation: 3.15

Before Cutting the Big Cutting in The Garment Section. Small cuttings are cut for testing and each size has to be measured. It Has been seen that, body size 10, Measurement point, 1/2Waist Length Back & Front part measured is ok, and size 12 Back part plus (+.6) and front part ok. Size 14 back and front part also ok. Body Length Chest size 10 & 12 back & Front part measured ok but size 14 front part measured plus (+.5). Center fronts bottom size 10 back part measured ok, but front part measured minus (-.05) Size 12 & 14 back & front part measured are ok. The main reason of 1st cutting, if the fabric relaxation is not proper, if the Fabric spreading machine tension is too low during fabric trial.

| Executive Greentex Ltd | | | | | | | | | | | | |
|--|------|-------|--------------|------|-------|------|-------|---------|-------|-------|-------|-------|
| Finished Garments Measurements Variation chart | | | | | | | | | | | | |
| Measurement point | SIZE | | | | | | | | | | | |
| | XS | 1 | S | 1 | M | 1 | L | 1 | XL | 1 | XXL | 1 |
| Sholder Point to point | 37.8 | -.1.5 | 38.4 | -0.5 | 39.2 | -0.5 | 40.0 | +.5 | 40.8 | -.8 | 41.6 | -.1.5 |
| Front Neck Drop-HPS | 8.7 | ✓ | 8.8 | +.5 | 8.9 | -.2 | 9.0 | ✓ | 9.4 | ✓ | 9.8 | ✓ |
| Back Neck Drop-Hps | 3.0 | ✓ | 3.0 | ✓ | 3.0 | -0.5 | 3.0 | ✓ | 3.0 | -.1.3 | 3.0 | ✓ |
| Back Neck Width -Seam to Seam | 33.8 | -1.0 | 34.4 | -0.5 | 35.2 | -0.5 | 36.0 | -.1 | 36.8 | -.1.5 | 37.6 | -.1.5 |
| across Front 13cm down From SNP | 35.8 | -1.0 | 36.4 | -0.6 | 37.2 | ✓ | 38.0 | -0.2 | 39.0 | ✓ | 40.0 | -2 |
| across Back 13cm down From SNP | 61.4 | -3.0 | 62.2 | -0.8 | 63.1 | -0.5 | 64.0 | -0.5 | 64.9 | ✓ | 65.8 | -1 |
| Back Length -SnP To Hem | 87.0 | -1.0 | 91.0 | ✓ | 96.0 | -1.5 | 101.0 | -0.6 | 107.0 | -.2 | 113.0 | -.5 |
| Bust circumference -2.5 cm Down from | 92.0 | ✓ | 96.0 | -0.1 | 101.0 | -0.2 | 106.0 | -0.8 | 112.0 | -.2 | 118.0 | -2 |
| Hem Circumference -Measured Straght Across | 22.9 | -2.0 | 23.1 | -0.1 | 23.3 | -2.5 | 23.5 | ✓ | 23.7 | +.1 | 23.9 | 1.5 |
| Sleeve Length Overarm | 20.5 | ✓ | 21.0 | +.8 | 21.5 | ✓ | 22.0 | -0.1 | 22.6 | ✓ | 23.2 | +.8 |
| Armhole Straght | 31.6 | ✓ | 32.8 | ✓ | 34.4 | -0.5 | 36.0 | -0.1 | 38.2 | -.5 | 40.4 | ✓ |
| BliceP Chcumference | 28.4 | -6.0 | 29.6 | -0.8 | 30.8 | -0.1 | 32.0 | +.8 | 33.6 | +.5 | 35.2 | -.1.5 |
| Cuff Circumference Short Sleeve | 1.8 | -5.0 | 1.8 | -0.1 | 1.8 | +.5 | 1.8 | ✓ | 1.8 | ✓ | 1.8 | -.8 |
| Neck rib Height | 2.0 | ✓ | 2.0 | ✓ | 2.0 | ✓ | 2.0 | -0.8 | 2.0 | ✓ | 2.0 | ✓ |
| Hem /cuff Depth | 63.4 | ✓ | 64.2 | ✓ | 65.1 | ✓ | 66.0 | +.5 | 66.9 | ✓ | 67.8 | ✓ |
| Back Wearling Length from SNP to hem | 62.0 | ✓ | 62.0 | ✓ | 62.0 | ✓ | 62.0 | -0.2 | 62.0 | ✓ | 62.0 | ✓ |
| Jr. Supervisor QA | | | Executive QA | | | | | DPM/APM | | | | |

Table: 6.3 Finished Garments Measurements

3.16 Observation of Finish Garments Measurement.

Finish Garments Measurement Show Garments Measurement, Some Size Garments Measurements are, X Small, Small, Medium, Large, Extra Large, etc. In most cases it was found that the Measurement was plus. X small Garment Actual Measurement of Shoulder punt 37.8 But Make a Sample Finish garments Measurement (- 1.5) and (-0.8) Front Neck Drop. 8.7 ok, Back Neck Drop 3.0 Is ok, Back Neck Width Seam To Seam (33.8) and (-.10) Across Front 13 cm down from SNP (38.8) (-1.0) Across Back 13 cm down from SNP Actual measurement 61.4 cm after (-3.0) Back length (87.0) after (-1.0) Hem (22.9) after (-2.0) Sleeve , Bust, Neck rib high, Armhole , measurement is ok , thus ach measurement is shown through the table.

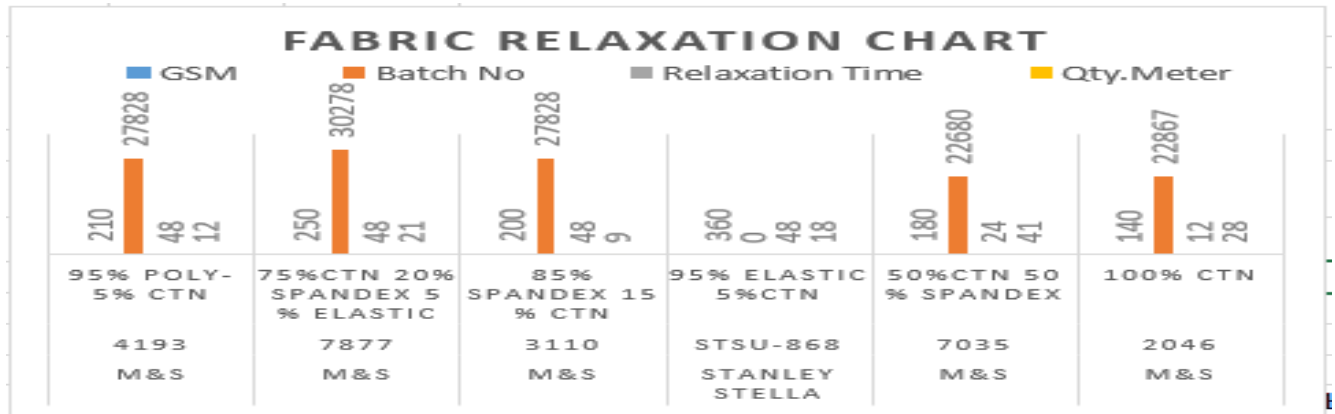


Figure: 5.8 Fabric relaxation Chart.

3.17 Table observation:

I am an IE Executive of Executive Greentex Ltd, Here Fabric Relaxation Various Categories of fabric and informed the qualities of the here I will discuss them. Here 100% cotton fabric relaxation time 12-hour, 95% polyester 5 % cotton fabric relaxation time 48 hour, if the fabric is not relaxed properly, the measurements will not be accurate after cutting the fabric and the garments measurement will not be accurate even after making the garment with the fabric. Fabric Relaxation is an important factor. Here is a discussion about the relaxation of different types of fabrics, from this learned that if the fabric is not relaxed then the measurement of the garment will never be correct if the fabric s not relaxed

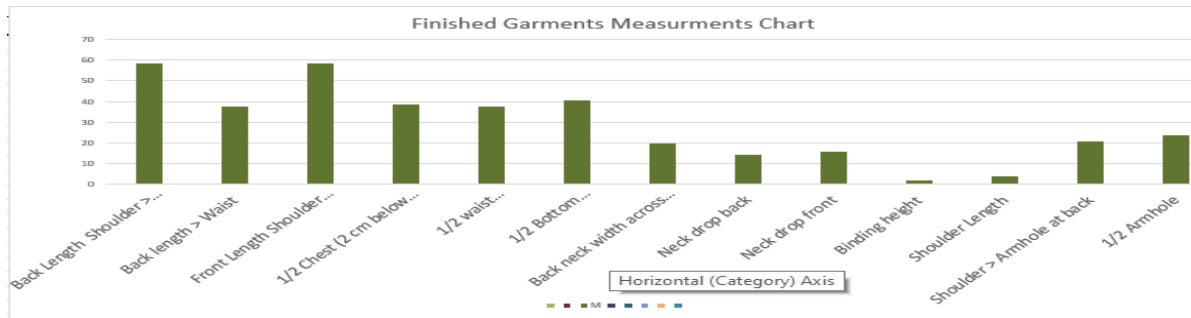


Figure: 5.9 Finished Garments Measurement Chart.

Empirical Details

3 days Cut panel Inspection Report.

Buyer -M&S

| Executive Greentex Ltd Gilarchala , Sreepur Gazipur Quality Assurance Department 100 % Cut Panal Check Report Summary | | | | | | | | | | | | | | | |
|--|---------|-------------|---------|---------------|------------------|--------------|-------------|-------------|------|------|-------|-------------|------------|--------------------|----------|
| Buyer : M&S | | | | | | | | | | | | | | | |
| Style | Colour | Total Parts | Cut Qty | Goods qua.pcs | Check Qty, Panel | Ok qty panel | YarnMissing | Needle mark | Slub | Hole | Patta | Dyeing Mark | Dirty Spot | G. total Rejection | Reject % |
| 9895 | Khaki | 4 | 3209 | 3160 | 12836 | 12640 | 18 | 5 | 7 | | 3 | 10 | 6 | 49 | 1.53% |
| 9895 | Blue | 4 | 1820 | 1744 | 7280 | 6976 | 21 | 5 | 7 | 21 | 7 | 10 | 5 | 76 | 4.18% |
| 6380 | ivory | 2 | 2432 | 2350 | 4864 | 4700 | 9 | 3 | 5 | 25 | 10 | 25 | 5 | 82 | 3.37% |
| 4193 | White | 6 | 910 | 844 | 5460 | 5064 | 1 | 7 | 5 | 31 | 10 | 0 | 12 | 66 | 7.25% |
| 6133 | navy | 4 | 2145 | 2089 | 8580 | 8356 | 18 | 7 | 12 | 1 | 8 | 8 | 2 | 56 | 2.61% |
| 6134 | dk.blue | 2 | 2700 | 2658 | 5400 | 5316 | 11 | 5 | 7 | 12 | 2 | 3 | 2 | 42 | 1.56% |
| 3893 | Grey | 4 | 1267 | 1247 | 5068 | 4988 | 3 | 1 | 2 | 5 | 3 | 1 | 5 | 20 | 1.58% |
| 5419 | Indigo | 3 | 1062 | 1044 | 3186 | 3132 | 5 | 1 | 2 | 1 | 4 | 3 | 2 | 18 | 1.69% |
| | | | 15545 | 15136 | 52674 | 51172 | 86 | 34 | 47 | 96 | 47 | 60 | 39 | 409 | 2.63% |

Must Be Check 100 Cut Panal Inspection (PI)

Table- 6.4 Cut panel Inspection (1st Day)

3.18 Table observation:

Here checked by M&S Buyer, m&s Total goods quantity 15545pcs ,ok quantity 15135pcs, & total panel 52675 pcs, good panel 51172pcs, the name of defects Yarn missing 49, ok quantity Needle mark 22,Slub 34, hole 78, patta35, total defect found 261, Most defect found fabric hole, and yarn missing 49. Such a defects mainly originate from where the fabric is made.

| Executive Greentex Ltd Gilarchala , Sreepur Gazipur Quality Assurance Department 100 % Cut Panal Check Report Summary | | | | | | | | | | | | | | | | | | |
|--|--------|-------------|---------|---------------|------------------|--------------|-------------|-------------|------|------|-------|------------|------------|-------------|------------|------------------|-----------|----------|
| Buyer:M&S | | | | | | | | | | | | | | | | Date::24.09.2022 | | |
| Style | Colour | Total Parts | Cut Qty | Goods qua.pcs | Check Qty, Panel | Ok qty panel | YarnMissing | Needle mark | Slub | Hole | Patta | Cress Mark | Shine Mark | Dyeing Mark | Dirty Spot | cut mark | Rejection | Reject % |
| 4731 | Khaki | 4 | 3209 | 3108 | 12836 | 12432 | 0 | 26 | 9 | 12 | 9 | 45 | 9 | 0 | 9 | 9 | 101 | 3.15% |
| 1265 | Blue | 4 | 3978 | 3884 | 15912 | 15536 | 12 | 5 | 3 | 32 | 12 | 20 | 5 | 12 | 22 | 0 | 94 | 2.36% |
| 3312 | Grey | 4 | 1267 | 1208 | 5068 | 4832 | 19 | 1 | 0 | 25 | 56 | 2 | 9 | 2 | 12 | 6 | 59 | 4.66% |
| 5419 | Indigo | 3 | 4523 | 4476 | 13569 | 13428 | 5 | 0 | 23 | 2 | 2 | 5 | 7 | 20 | 12 | 4 | 47 | 1.04% |
| 5466 | Navy | 3 | 2839 | 2678 | 8517 | 8034 | 0 | 56 | 0 | 5 | 19 | 96 | 8 | 21 | 4 | | 161 | 5.67% |
| 4198 | Black | 2 | 1263 | 1169 | 2526 | 2338 | 0 | 3 | 13 | 9 | 20 | 6 | 55 | 12 | 63 | | 94 | 7.44% |
| 6133 | Blue | 4 | 2145 | 2084 | 8580 | 8336 | 9 | 0 | 0 | 12 | 54 | 8 | 9 | 21 | 32 | | 61 | 2.84% |
| 9890 | Grey | 4 | 3546 | 3483 | 14184 | 13932 | 19 | 3 | 3 | 20 | 13 | 9 | 6 | 39 | 9 | | 63 | 1.78% |
| | | | 22770 | 22090 | 81192 | 78868 | 64 | 94 | 51 | 117 | 185 | 191 | 108 | 127 | 163 | 19 | 1119 | 4.91% |

Table- 6.5 Cut panel Inspection (2nd Day)

Here checked by M&S Buyer, m&s Total goods quantity 15545pcs ,ok quantity 15135pcs, & total panel 52675 pcs, good panel 51172pcs, the name of defects Yarn missing 49, ok quantity Needle mark 22,Slub 34, hole 78, patta35, total defect found 261, Most defect found fabric hole, and yarn missing 49. Such a defects mainly originate from where the fabric is made.

| Executive Greentex Ltd Gilarchala, Sreepur Gazipur Quality Assurance Department 100 % Cut Panal Check Report Summary | | | | | | | | | | | | | | | | | | |
|---|---------|---------|---------|---------------|-----------------|--------------|-------------|-------------|------|------|-------|------------------|------------|-------------|------------|----------|-----------------|----------|
| Buyer: M&S | | | | | | | | | | | | Date: 23.09-2022 | | | | | | |
| Style | Colour | Part no | Cut Qty | Goods qua.pcs | Total qty panel | Ok qty panel | YarnMissing | Needle mark | Slub | Hole | Patta | Cress Mark | Shine Mark | Dyeing Mark | Dirty Spot | Over out | G. total Reject | Reject % |
| 6380 | ivory | 2 | 2432 | 2346 | 4864 | 4692 | 8 | 12 | 12 | 25 | 12 | 23 | 2 | 25 | 6 | | 86 | 3.54% |
| 4193 | White | 6 | 910 | 836 | 5460 | 5016 | 9 | 9 | 14 | 31 | 3 | 2 | 5 | 0 | 9 | 8 | 74 | 8.13% |
| 6133 | navy | 4 | 2145 | 2106 | 8580 | 8424 | 7 | 6 | 15 | 1 | 5 | 5 | 20 | 8 | 5 | 2 | 39 | 1.82% |
| 6134 | dk.blue | 2 | 2700 | 2649 | 5400 | 5298 | 12 | 2 | 9 | 12 | 9 | 9 | 32 | 3 | 7 | 1 | 51 | 1.89% |
| 3893 | Grey | 4 | 1267 | 1204 | 5068 | 4816 | 5 | 12 | 21 | 5 | 8 | 8 | 2 | 1 | 12 | 6 | 63 | 4.97% |
| 5419 | Indigo | 3 | 1062 | 999 | 3186 | 2997 | 19 | 21 | 6 | 1 | 2 | 12 | 5 | 3 | 4 | 4 | 63 | 5.93% |
| 5466 | Navy | 3 | 2839 | 2791 | 8517 | 8373 | 5 | 21 | 8 | 7 | 12 | 2 | 9 | 10 | 5 | | 48 | 1.69% |
| 9890 | Grey | 4 | 3546 | 3493 | 14184 | 13972 | 19 | 3 | 8 | 5 | 13 | 9 | 6 | 10 | 9 | | 53 | 1.49% |
| | | | 16901 | 16424 | 55259 | 53588 | 84 | 86 | 93 | 87 | 64 | 70 | 81 | 60 | 57 | 21 | 703 | 4.16% |

Must Be Check, 100 Cut Panal Inspection(CPI)

Table- 6.6 Cut panel Inspection (3rd Day)

3.19 Table observation:

Here checked by M&S Buyer, total goods check 16901pcs, ok goods 16424 pcs & total panel 55259 total good panel 53588pcs. the name of defects Yarn missing 41, Needle mark 54, Slub, 53, hole 62, patta 25, Dyeing mark 29, total defect found 340, Most defect found fabric Needle mark, 54 and yarn hole 62. and others defects are explained, such defects mainly originate from where the fabric is made.

3.20 Cumulative Observation:

The cut Parts of the Fabric must be checked before sewing. The cut pieces of fabric required by M&S buyer are checked on the first day, second day and third day. total goods Check quantity 55216 pcs & ok quantity goods 53650pcs, total panel 189125. ok panel 183628 the defect found 703 pcs, 2nd day Goods check 22770 pcs, panel 181192. found the defects. 1119. and 3rd day total goods check 15545, and panel check 52674, found the defects 491. Average of Defects 3 days, slub, is 65, pieces, hole is 182 pieces, shine marks is 73 pieces, dirty spot is 57 pieces, cress mark is 118 pieces, 3 days total Average defect found .All Defects found finally 4.17%

Formula of defects %

Defects % = Total Defects Quantity / Total goods Quantity * 100

3 days Cut panel Inspection Report.
Buyer – Stanley Stella

| Executive Greentex Ltd Gilarchala , Sreepur Gazipur Quality Assurance Department 100 % Cut Panel Check Report Summary | | | | | | | | | | | | | | | | |
|--|--------|---------|---------|---------------|------------------|--------------|-------------|-------------|------|------|------------|------------|---------------|---------------|--------------------|----------|
| Buyer: Stanley Stella | | | | | | | | | | | | | | | | |
| Style | Colour | Part no | Cut Qty | Goods qua.pcs | Check Qty. Panel | Ok qty panel | YarnMissing | Needle mark | Slub | Hole | Cress Mark | Dirty Spot | Print Problem | Over cut mark | G. total Rejection | Reject % |
| 823 | Black | 4 | 3209 | 3020 | 12836 | 12080 | 24 | 10 | 15 | 120 | 10 | 10 | | 9 | 189 | 5.89% |
| 868 | Grey | 4 | 3978 | 3934 | 15912 | 15912 | 14 | 5 | 5 | 10 | 0 | 10 | | 0 | 44 | 1.11% |
| 918 | Green | 2 | 5641 | 5548 | 11282 | 11282 | 17 | 10 | 6 | 40 | 10 | 10 | 5 | 1 | 93 | 1.65% |
| 822 | Black | 6 | 4512 | 4407 | 27072 | 27072 | 15 | 10 | 10 | 40 | 20 | 10 | | 9 | 105 | 2.33% |
| 913 | F.navy | 4 | 5212 | 5123 | 20848 | 20848 | 17 | 0 | 0 | 60 | 0 | 12 | | 2 | 89 | 1.71% |
| 828 | Black | 2 | 1263 | 1091 | 2526 | 2526 | 36 | 6 | 20 | 50 | 40 | 20 | 9 | | 172 | 13.62% |
| 928 | Green | 4 | 2145 | 2032 | 8580 | 8580 | 28 | 15 | 10 | 30 | 10 | 20 | | | 113 | 5.27% |
| 913 | White | 2 | 3546 | 3451 | 7092 | 7092 | 25 | 10 | 10 | 20 | 10 | 20 | | | 95 | 2.68% |
| | | | 29506 | 28606 | 106148 | 105392 | 176 | 66 | 76 | 370 | 100 | 112 | 14 | 21 | 935 | 3.17% |

Table: 6.7 Cut panel Inspection (1st Day)

3.21 Table Observation:

Here checked by Stanley Stela Buyer, 29506 pcs & ok goods 28606 pcs & total panel 106148, ok panel 105392, the name of defects ,Hole 220, Yarn missing 113, Ceases mark 70, total defect found 569, Most defect found fabric Hole 220, Yarn missing 113 .and Dirty spot 70 others defects are explain ,Such a defects mainly originate from where the fabric is made.

| Executive Greentex Ltd Gilarchala , Sreepur Gazipur Quality Assurance Department 100 % Cut Panel Check Report Summary | | | | | | | | | | | | | | | | | | |
|--|--------|---------|---------|---------------|------------------|--------------|-------------|-------------|------|------|------|-------|------------|------------|------------|---------------|--------------------|----------|
| Buyer: Steenley Steela | | | | | | | | | | | | | | | | | | |
| 23-11-2022 | | | | | | | | | | | | | | | | | | |
| Style | Colour | Part no | Cut Qty | Goods qua.pcs | Check Qty. Panel | Ok qty panel | YarnMissing | Needle mark | Knot | Slub | Hole | Patta | Cress Mark | Shine Mark | Dirty Spot | Over cut mark | G. total Rejection | Reject % |
| 823 | Black | 4 | 2363 | 2315 | 9452 | 9260 | 5 | 3 | | | 20 | | 10 | | 10 | 9 | 48 | 2.03% |
| 868 | Grey | 4 | 2145 | 2074 | 8580 | 8580 | 5 | 2 | 11 | 29 | 25 | 8 | 0 | | 10 | 0 | 71 | 3.31% |
| 918 | Green | 2 | 3689 | 3549 | 7378 | 7378 | 20 | 8 | | | 92 | | 10 | 9 | 10 | 1 | 140 | 3.80% |
| 822 | Black | 6 | 4520 | 4481 | 27120 | 27120 | 3 | 1 | | | 5 | | 20 | | 10 | 9 | 39 | 0.86% |
| 558 | Blue | 4 | 3565 | 3408 | 14260 | 14260 | 25 | | | | 90 | | 30 | | 12 | | 157 | 4.40% |
| 828 | Black | 2 | 2159 | 1934 | 4318 | 4318 | 55 | | | | 110 | 19 | 40 | 29 | 20 | | 225 | 10.42% |
| 928 | Green | 4 | 4523 | 4471 | 18092 | 18092 | 6 | | | | 16 | | 10 | | 20 | | 52 | 1.15% |
| 913 | White | 4 | 3546 | 3486 | 14184 | 14184 | 20 | | | | 10 | | 10 | | 20 | | 60 | 1.69% |
| | | | 26510 | 25718 | 103384 | 103192 | 139 | 14 | 11 | 29 | 368 | 27 | 130 | 38 | 112 | 19 | 887 | 3.35% |

Table: 6.8 Cut panel Inspection (2nd Day)

| Executive Greentex Ltd | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--------|----------|---------|----------------|------------------|--------------|--------------|-------------|------|------|------|----------------|------------|------------|------------|---------------|----------------|----------|
| Gilarchala , Sreepur Gazipur | | | | | | | | | | | | | | | | | | |
| Quality Assurance Department | | | | | | | | | | | | | | | | | | |
| 100 % Cut Panel Check Report Summary | | | | | | | | | | | | | | | | | | |
| Buyer: Steenly Steela | | | | | | | | | | | | | 13-11-2022 | | | | | |
| Style | Colour | Parts no | Cut Qty | Goods qua. pcs | Check Qty. Panel | Ok qty panel | Yarn Missing | Needle mark | Knot | Slub | Hole | Yarn Contamina | Cress Mark | Shine Mark | Dirty Spot | Over cut mark | U. total Rejec | Reject % |
| 828 | Green | 6 | 3645 | 3416 | 21870 | 20496 | 24 | 20 | 13 | 15 | 120 | | 40 | | 10 | 9 | 229 | 6.28% |
| 822 | Grey | 3 | 3215 | 3155 | 9645 | 9645 | 14 | 1 | | 5 | 10 | | 10 | | 20 | 0 | 60 | 1.87% |
| 478 | F.Navy | 4 | 7854 | 7755 | 31416 | 31416 | 18 | 0 | 3 | 11 | 50 | 29 | 10 | | 10 | 6 | 99 | 1.26% |
| 125 | White | 2 | 4563 | 4463 | 9126 | 9126 | 24 | 0 | | 6 | 30 | | 20 | 1 | 20 | 4 | 100 | 2.19% |
| 868 | Blue | 3 | 4785 | 4593 | 14355 | 14355 | 26 | 10 | 9 | 6 | 120 | | 10 | 2 | 20 | | 192 | 4.01% |
| 868 | Green | 2 | 4521 | 4323 | 9042 | 9042 | 79 | 9 | | 20 | 20 | | 50 | 1 | 20 | | 198 | 4.38% |
| 822 | Blue | 6 | 1520 | 1353 | 9120 | 9120 | 20 | 15 | | 52 | 40 | 1 | 30 | | 10 | | 167 | 10.99% |
| 913 | White | 6 | 1452 | 1349 | 8712 | 8712 | 12 | 6 | 5 | 15 | 20 | | 20 | | 30 | | 103 | 7.09% |
| | | | 31555 | 30407 | 113286 | 111912 | 217 | 61 | 30 | 130 | 410 | 30 | 190 | 4 | 140 | 19 | 1231 | 3.90% |

Table: 6.9 Cut panel Inspection (3rd Day

3.22 Observation Summary:

Here checked by Stanley Stela Buyer, 26510 pcs , ok total panel 25718pcs & total panel 103192 ok panel 103192,the name of defects ,Fabric hole 320, Yarn missing 161, Cress mark 150,Slub 108 ,Dirty spot 90 total defect found 829, Most defect found fabric Yarn hole 320,yarn missing 161 and cress mark 150, others defects are explain ,Such a defects mainly originate from where the fabric is made.

3.28 Cumulative Observation:

The cut Parts of the Fabric must be checked before sewing. The cut pieces of fabric required by Stanley Stela buyer are checked on the first day, second day and third day. total goods Check quantity 1st day 29506 pcs & ok 28606pcs,panel 105392 & ok panel 105392 the defect found 935 pcs, 2nd day Goods check 26510pcs,ok goods 25718pcs. Panel 103384 & panel 103192 found the defects. 910. and 3rd day total goods check 31555pcs, ok goods 30407pcs & panel 111912 ok panel 111912.3days total goods check 87631pcs, ok goods 84731pcs & total panel 322818 ok panel 320496 ok. found the Defects 1201. Average Defects 3 days, Yarn missing 177 pieces, hole is 382 pieces, shine marks is 73pieces, dirty spot is 121 pieces, cress mark is 140 pieces,3 days total Average defect found. All Defects found finally 3.57%

Formula of defects %

Defects %= Total Defects Quantity/Total goods Quantity*100

3 days Cut panel Inspection Report.
Buyer – Matalan

| Executive Greentex Ltd Gilarchala , Sreepur Gazipur Quality Assurance Department 100 % Cut Panel Check Report Summary Buyer: Matalan | | | | | | | | | | | | | | | | | |
|--|--------|---------|---------|---------------|------------------|--------------|--------------|-------------|------|------|---------------|------------|------------|------------|---------------|-----------------|----------|
| Style | Colour | Part no | Cut Qty | Goods qua.pcs | Check Qty. Panel | Ok qty panel | Yarn Missing | Needle mark | Slub | Hole | Yarn Contamin | Cress Mark | Shine Mark | Dirty Spot | Over cut mark | G. total Reject | Reject % |
| Tp-552 | Green | 4 | 3645 | 3567 | 14580 | 14268 | 35 | 15 | 25 | 1 | 5 | 2 | 5 | | 1 | 78 | 2.14% |
| Hs-225 | White | 2 | 3215 | 3058 | 6430 | 6430 | 25 | 42 | 32 | 55 | 6 | 3 | 6 | | 1 | 157 | 4.88% |
| Hs-001 | Navy | 2 | 4523 | 4426 | 9046 | 9046 | 1 | 5 | 23 | 5 | 23 | 63 | 9 | | 1 | 97 | 2.14% |
| Hs-225 | Navy | 4 | 4785 | 4748 | 19140 | 19140 | 2 | 5 | 23 | 5 | 2 | 2 | 12 | | 1 | 37 | 0.77% |
| Hs-002 | Black | 4 | 1263 | 1092 | 5052 | 5052 | 12 | 25 | 63 | 69 | 1 | 2 | 5 | | 1 | 171 | 13.54% |
| Hs-001 | White | 4 | 4521 | 4439 | 18084 | 18084 | 55 | 5 | 15 | 1 | | 2 | | 4 | | 82 | 1.81% |
| Hs-094 | White | 4 | 1520 | 1464 | 6080 | 6080 | 21 | 15 | 11 | 2 | | 2 | | 5 | | 56 | 3.68% |
| Hs-112 | White | 4 | 1452 | 1405 | 5808 | 5808 | 2 | 6 | 5 | 1 | | 3 | | 30 | | 47 | 3.24% |
| | | | 24924 | 24199 | 84220 | 83908 | 153 | 118 | 197 | 139 | 37 | 79 | 37 | 39 | 5 | 804 | 3.23% |

Table: 6.10 Cut panel Inspection (1st Day

3.24 Observation Summary:

Here checked by Matalan Buyer, 1st Day goods check 24914pcs, ok goods 24199pcs & panel 84220 ok panel 83908, the name of defects found, Fabric, slub, 154, Yarn hole 132, Needle mark 102, yarn missing 94, Cress mark 72, total defect found 554, Most defect found fabric Slub, 154, yarn Hole 132, Needle mark 102, others defects are explained, such defects mainly originate from where the fabric is made.

| Executive Greentex Ltd Gilarchala , Sreepur Gazipur Quality Assurance Department 100 % Cut Panel Check Report Summary Buyer: Matalan | | | | | | | | | | | | | | | | | |
|--|--------|---------|---------|---------------|------------------|--------------|--------------|-------------|------|------|------|-------|---------------|------------|------------|--------------------|----------|
| Style | Colour | Part no | Cut Qty | Goods qua.pcs | Check Qty. Panel | Ok qty panel | Yarn Missing | Needle mark | Keot | Slub | Hole | Patta | Yarn Contamin | Cress Mark | Dirty Spot | G. total Rejection | Reject % |
| Tp-552 | Green | 4 | 3645 | 3580 | 14580 | 14320 | 14 | 30 | 4 | 5 | 1 | 1 | 5 | 5 | 10 | 65 | 1.78% |
| Hs-225 | White | 2 | 3215 | 3083 | 6430 | 6430 | 3 | 20 | | 32 | 55 | 2 | 6 | 10 | 12 | 132 | 4.11% |
| Hs-001 | Navy | 2 | 4523 | 4470 | 9046 | 9046 | 3 | 1 | 21 | 36 | 5 | 3 | 23 | 3 | 5 | 53 | 1.17% |
| Hs-225 | Navy | 4 | 4785 | 4658 | 19140 | 19140 | 10 | 2 | 8 | 52 | 5 | 11 | 2 | 30 | 28 | 127 | 2.65% |
| Hs-002 | Black | 4 | 1263 | 1099 | 5052 | 5052 | 3 | 30 | | 52 | 69 | 15 | | 5 | 5 | 164 | 12.98% |
| Hs-004 | Navy | 4 | 4562 | 4504 | 18248 | 18248 | 3 | 21 | 3 | 12 | 9 | | | 5 | 8 | 58 | 1.27% |
| Hs-001 | White | 4 | 7854 | 7809 | 31416 | 31416 | 30 | 5 | 7 | 2 | 2 | | 11 | 3 | 3 | 45 | 0.57% |
| Hs-125 | Olive | 4 | 4563 | 4498 | 18252 | 18252 | 30 | 23 | | 1 | 5 | | | 3 | 3 | 65 | 1.42% |
| | | | 34410 | 33579 | 122164 | 121904 | 96 | 132 | 43 | 192 | 151 | 32 | 47 | 64 | 74 | 831 | 2.41% |

Table: 6.11 Cut panel Inspection (2nd Day

3.25 Observation Summary:

Here checked by Matalan Buyer, goods check 34410pcs & ok goods 33579 pcs & panel 12164 ok panel 121904 & total the name of defects found, Fabric Slub,148, Yarn hole 138, Needle mark 73, Dirty spot 53, yarn missing 19, Cress mark 35, total defect found 516, Most defect found fabric Slub,148, yarn Hole 138, others defects are explained, such defects mainly originate from where the fabric is made.

| Executive Greentex Ltd | | | | | | | | | | | | | | | | | |
|--------------------------------------|--------|---------|---------|---------------|------------------|--------------|--------------|-------------|------|------|-------|------------------|------------|------------|------------|-------------------|----------|
| Gilarchala , Sreepur Gazipur | | | | | | | | | | | | | | | | | |
| Quality Assurance Department | | | | | | | | | | | | | | | | | |
| 100 % Cut Panel Check Report Summary | | | | | | | | | | | | | | | | | |
| Buyer: Matalan | | | | | | | | | | | | Date: 09.11.2022 | | | | | |
| Style | Colour | Part no | Cut Qty | Goods qus.pcs | Check Qty. Panel | Ok qty panel | YaraMiss ing | Needle mark | Slab | Hole | Patta | Yara Conta miss | Cress Mark | Shine Mark | Dirty Spot | G. total Rejected | Reject % |
| Tp-552 | Green | 3 | 4585 | 4520 | 13755 | 13560 | 14 | 30 | 5 | 1 | 1 | 5 | 5 | 7 | 10 | 65 | 1.42% |
| Hs-225 | White | 5 | 6320 | 6188 | 31600 | 31600 | 3 | 20 | 32 | 55 | 2 | 6 | 10 | 5 | 12 | 132 | 2.09% |
| Hs-001 | Navy | 6 | 7850 | 7797 | 47100 | 47100 | 3 | 1 | 36 | 5 | 3 | 23 | 3 | 2 | 5 | 53 | 0.68% |
| Hs-225 | Navy | 4 | 1252 | 1078 | 5008 | 5008 | 10 | 49 | 52 | 5 | 11 | 2 | 30 | 20 | 28 | 174 | 13.90% |
| Hs-002 | Black | 4 | 1203 | 1039 | 4812 | 4812 | 3 | 30 | 52 | 69 | | | 5 | 3 | 5 | 164 | 13.63% |
| Hs-004 | Navy | 4 | 4563 | 4505 | 18252 | 18252 | 3 | 21 | 12 | 9 | | | 5 | 7 | 8 | 58 | 1.27% |
| Hs-001 | White | 4 | 8952 | 8880 | 35808 | 35808 | 30 | 5 | 2 | 29 | | 11 | 3 | 2 | 3 | 72 | 0.80% |
| Hs-125 | Olive | 3 | 2133 | 2068 | 6399 | 6399 | 30 | 23 | 1 | 5 | | | 3 | 2 | 3 | 65 | 3.05% |
| | | | 36858 | 36075 | 162734 | 162539 | 96 | 179 | 192 | 178 | 17 | 47 | 64 | 48 | 74 | 895 | 2.43% |

Table: 6.12 Cut panel Inspection (3rd Day

3.26 Observation Summary:

Here checked by Matalan Buyer, goods 36858 pcs & goods 36075pcs total panel 162734 & ok panel 162539. the name of defects found, Fabric slub 137, yarn hole 134, needle mark 122, dirty spot 48, cress mark 48, total defect found 535, Most defects found were fabric slub, 137, fabric hole, 134, and needle mark, 122; other defects are explained. Such defects mainly originate from where the fabric is made.

3.27 Cumulative Observation.

The cut parts of the fabric must be checked before sewing. The cut pieces of fabric required by the M&S buyer are checked on the first day, second day, and third day. total goods Check quantity 65223pcs & ok goods 93853pcs and panel 259168& ok panel 368351, The defect was found in 804 ,the defect in 890. the defects at 897. Average defect of 3 days. Slub is 135 pieces, hole is 149 pieces, shine marks are 48 pieces, dirty spot is 62 pieces, cress mark is 69 pieces, and 3 days total Average defect found. All defects were finally found at 2.78%.

Formula of defects %

Defects %= Total Defects Quantity/Total goods Quantity*100

Buyer: M&S

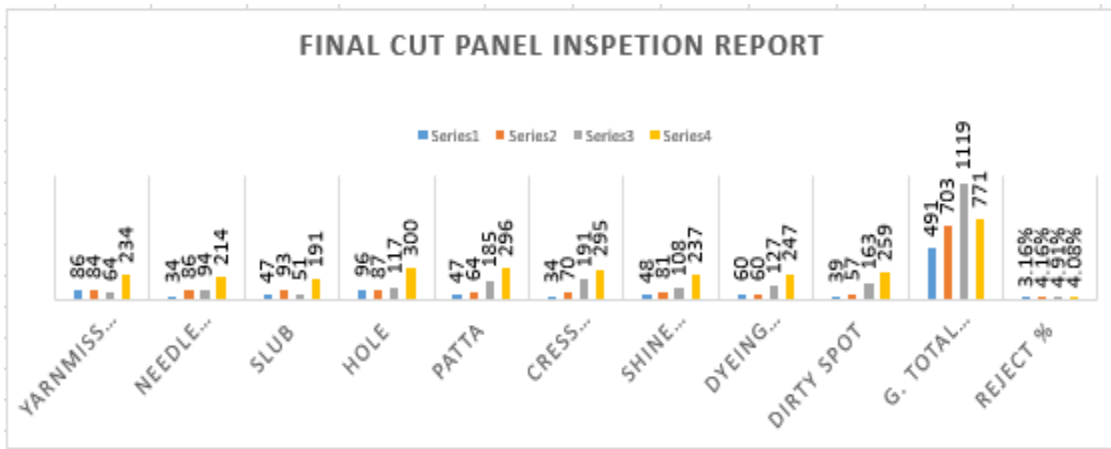


Figure: 5.10 Cut panel Defect chart

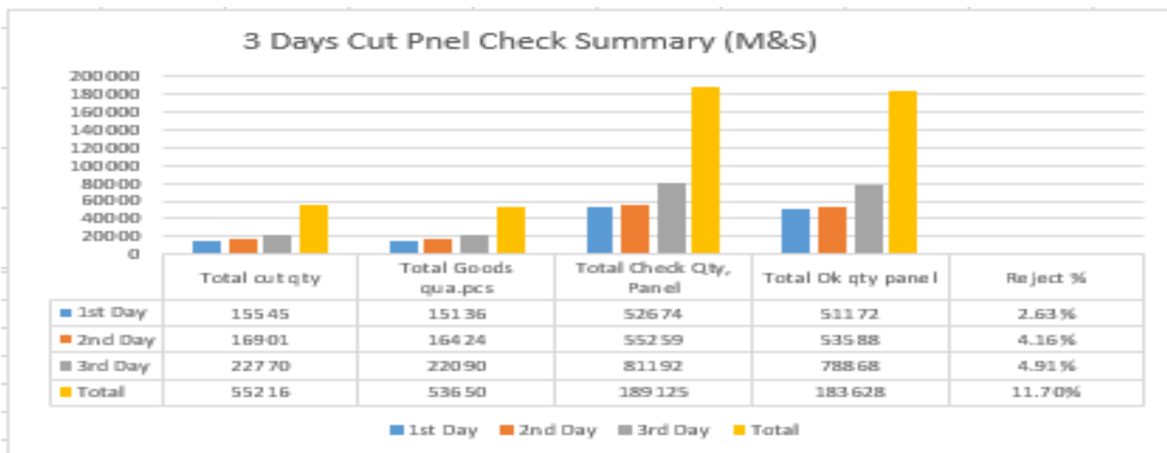


Figure: 5.11 Cut panel Defect chart

Buyer: Stanley stella

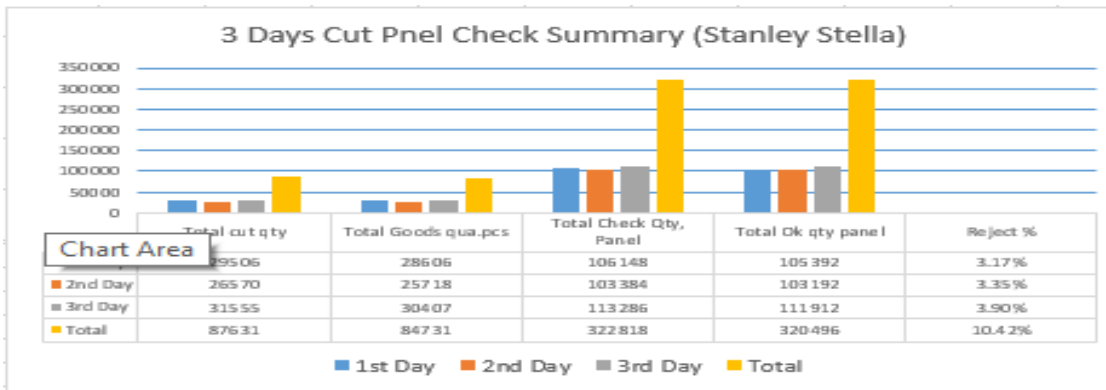


Figure 5.12 Cut panel Defect chart

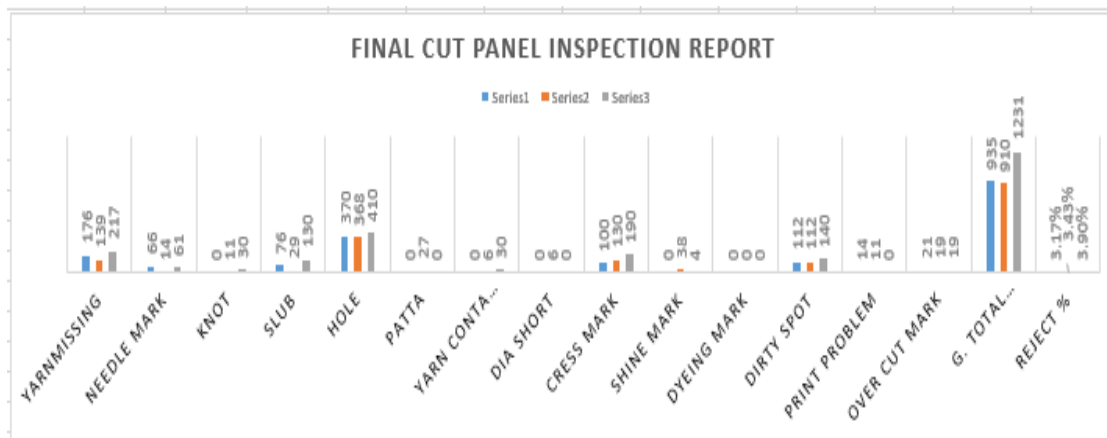


Figure: 5.13 Cut panel Defect chart

Buyer: Matalan

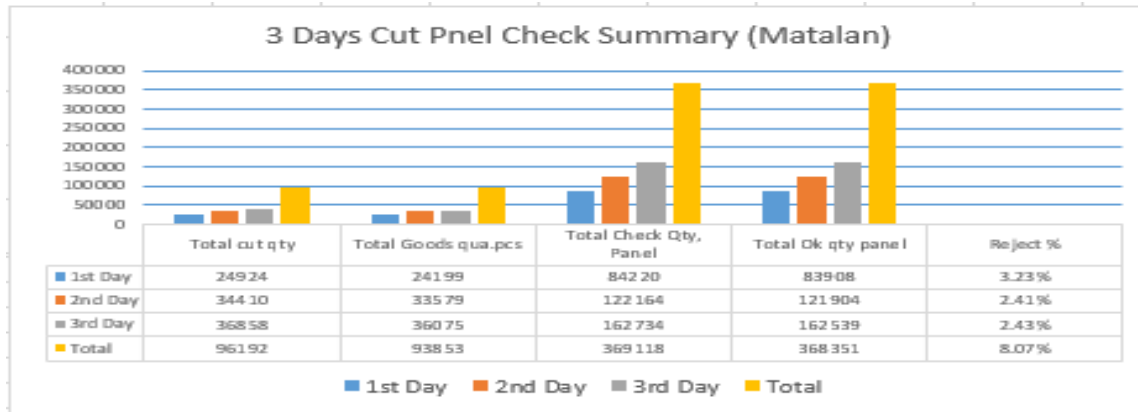


Figure: 5.14 Cut panel Defect chart

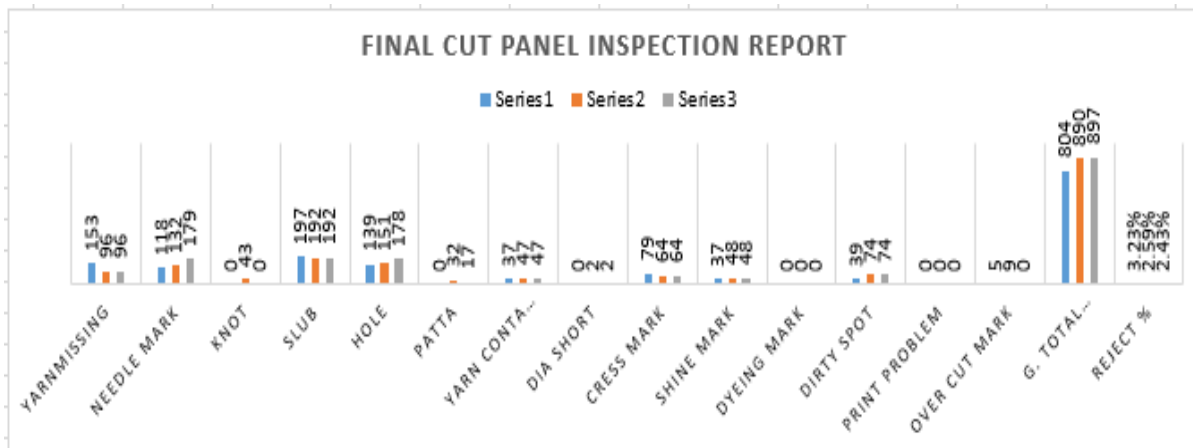


Figure: 5.15 Cut panel Defect chart.

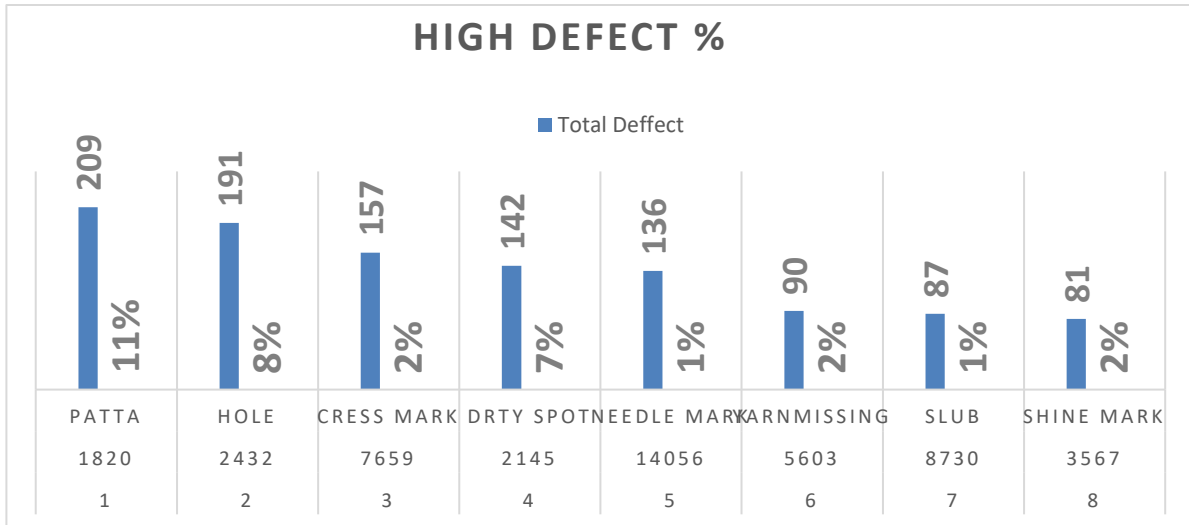


Figure: 5.16 High Defect %

Cumulative Observation.

Some problem in Cutting Section I found the highest defect fabric Patta,209,11%. And second fabric hole 191, present 8%, third Crush mark defect 157 present 2%. Dirty spot 142, Needle mark 136, Yarn missing 90, Fabric slob 87, Shine mark 81. Another cutting fault is no followed in cutting panel.

This Cutting is done Executive Green tex Ltd. Meghna Holding Ltd. Quality control in cutting section is very important in garments sector. Otherwise, cannot be help to increase sewing and finishing production or it's also a costly project but it maintains the standard of cutting section. its increase the sewing finishing production quality is bring the belief of the ultimate user on their product. I am very much thankful to our honorable teacher who has supervised us and help me to take a thesis topic loke Investigation on quality problem in cutting section, to do the job I have seen that major defect in finished fabric fabric Hole, Patta, crash mark, Dirty Spot, Needle mark, Yarn missing, Shine Mark. cutting section, I have found uneven marker making, and Cut panel measurement, Finished Garments Measurements (+-) Fabric spreading ply to ply Check, after cutting numbering, Bundling And 100% Cut panel check, I found major defect. So I am very much happy that I made the thesis on the STUDY ON QUALITY ISSUE CUTTING SETION. And I wish our work will be beneficiary to the garments cutting and they will be taking more care on their product to maintain Quality.

Chapter-4

Reference:

- i. <https://www.energysolveint.com/project/MEP/executive-greentex-ltd/>
- ii. <https://meghna-executive.com/>
- iii. <https://www.onlineclothingstudy.com/p/how-to-guide-quality.html>
- iv. <https://www.onlineclothingstudy.com/>
- v. Meghna Executive Greentex Ltd.