



# Faculty of Engineering Department of Textile Engineering

### **REPORT ON**

#### **Industrial Attachment**

At

KC Washing Plant, Nipa Group

Course Title: Industrial
Attachment Course Code:
TE-431

# **Submitted By**

Name_	<u>ID</u>
Muhammad Salah Ahmed Khan	151-23-4097
Zahid Hasan Pappu	151-23-4206
Sheikh Farid	151-23-4245

# Supervised By Mohammad Abdul Baset Assistant Professor Daffodil International University

This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Textile Engineering.

**Advance in Apparel Manufacturing Technology** 

Duration: From September 25, 2018 to November 20, 2018

#### Acknowledgement

At first my gratefulness goes to Almighty Allah to give me strength and ability to complete the industrial training and this report. You have made my life more bountiful. May you name be exalted, honored and glorified.

We are grateful to and wish our profound indebtedness to **Mohammad Abdul Baset**, **Assistant Professor**, **Department of Textile Engineering**. His endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts and correcting them at all stage have made it possible to complete this report.

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My gratitude also goes to all the employees of **KC Washing Plant Ltd.** for their sincere cooperation, support and valuable advice which they have provided us during the training period.

LETTER OF APPROVAL

To

The Head

Department of Textile Engineering

**Daffodil International University** 

102, Shukrabad, Mirpur Road, Dhaka 1207

Subject: Approval of Project Report of B.Sc. in Textile Engineering Program

Dear Sir

I am just writing to let you know that this report title as "Industrial Attachment "has been prepared by the students bearing ID 151-23-4097, 151-23-4206 and 151-23-4245 here is completed for final evaluation. The Whole report is prepared based on the proper investigation and interruption through critical analysis of empirical 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 project report and consider it

for final evaluation.

Yours Sincerely

Mohammad Abdul Baset

**Assistant Professor** 

Department Of Textile Engineering

Faculty of Engineering

**Daffodil International University** 

**DECLARATION** 

We hereby declare that, this project has been done by us under the supervision of Mohammad

Abdul Baset, Assistant Professor, Department of Textile Engineering, Faculty of

Engineering, Daffodil International University. We also declare that, neither this Industrial

Attachment nor any part of this Industrial Attachment has been submitted elsewhere for

award of any degree or diploma.

**Submitted By:** 

Muhammad Salah Ahmed Khan

ID: 151-23-4097

Department of Textile Engineering

ODaffodil International University

Zahid Hasan Pappu

ID: 151-23-4206

Department of Textile Engineering

**Daffodil International University** 

Sheikh Farid

ID: 151-23-4245

Department of TE

**Daffodil International University** 

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# CHAPTER-1 EXECUTIVE SUMMARY



#### 1. Executive Summary

Industrial attachment is the first step to professional life of student, especially of technical Side. It's an indispensable part of study a practically running processing technology of an industrial unit for a student. In our university, processing machines are not in continuous running condition, so it would only provide demonstration of mechanical features & processing technology of the material in accomplishment of the theory there of but not of the situational variables to achieve practical knowledge. So two months industrial attachment program in a dyeing mill was arranged for us.

Textile education can't be completed without industrial training. Because this industrial attachment program minimizes the gap between theoretical and practical knowledge and make me accustomed to industrial environment. I got an opportunity to complete two month long industrial training in **KC Washing Plant** a sister concern of **Nipa Group**. It has well planned & equipped Washing and Knit dyeing, finishing units in addition to facilitate Knitting and Knit wear manufacturing.

The rationale behind the existing structure and future expansion of **KC Washing Plant** is to capture value-added at each stage of the textile finishing process.



# CHAPTER-2 INFORMATION ABOUT THE FACTORY

#### 2.0 Basic Information

#### 2.1 Company Profile

Name of the company: KC Washing Plant, NIPA Group

Company Type: Washing Plant

Year of Establishment: January 2017

#### 2.2 Address

Location: Raturi, Katchkura, uttarkhan, Uttara Dhaka (North)-1230

Email: info@nipagroup.net

Website: www.nipagroup.com.bd

Telephone: (+88 02) 8924022, 8950493, 8911475, 8953510

#### 2.3 Head Office

slam Bag, Holand Road, Dhakhinkhan Uttara, Dhaka-1230

#### 2.4 Location Map

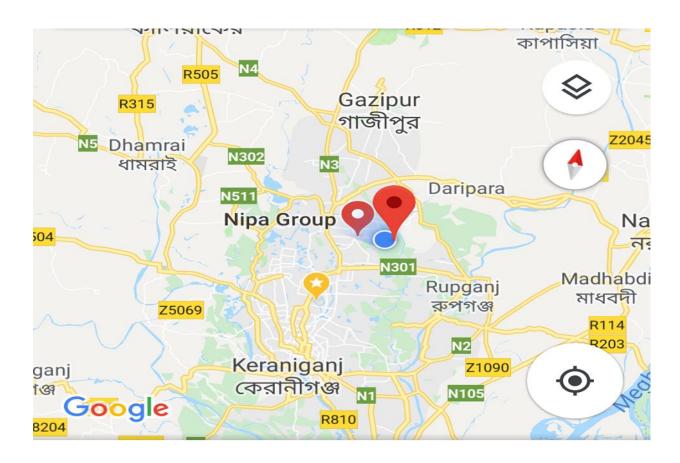


Fig: Location of KC Washing Plant, NIPA Group



#### 2.5 History

KC Washing Plant established January 2017 Washing plant with state of the art finishing Facilities and highly skilled washing experts From renowned worldwide washing facilities, This ensures consistently quality which can Provide customers satisfaction according to Customers' requirements. We used specialized machines to achieve various dry process effects and specialized detailed design. Our objective is not just to meet the growing demand in industry but our aim is to provide a quality services to the garment industry that continuously goes beyond this. We focus on building a long term partnership with our customers providing them not only with the highest levels of service but also continuously working with them to develop their creativity in terms of developing design according to customers' requirements. Our washing plant certified by GOTS,GRS. We have WTP,ETP for refining our water and refresh water from effluent.

#### 2.6 Objectives of KC Washing Plant

Our objective is not just to meet the growing demand in industry but our aim is to provide a quality services to the garment industry that continuously goes beyond this. We focus on building a long term partnership with our customers providing them not only with the highest levels of service but also continuously working with them to develop their creativity in terms of developing design according to customers' requirements.

#### 2.7 Main Buyers

Brand Name	Country of origin	Brand Logo
Walmart	USA	Walmart >
Next	United Kingdom	next
Primark	Ireland	PRIMARK
Jcpenny	USA	JCPenney
Lidl	Germany	<b>I</b> -3-10II.

#### 2.8 Vision

We instigated our journey 1993 with a vision of becoming the most recognized woven & knit manufacturer of the country as well as global clothing leader to a new high by offering the best quality and efficiency. We have expanded capacity, developed a skilled management team, workforce and integrated sophisticated technologies in order to become globally competitive. Our painstaking efforts to reengineer each steps of our value chain like-procurement, production process, planning, productivity, technologies. And turned them into centralized to get maximum outcome. Focusing solely in woven & knit apparel lines, we have adopted a structure by rearranging its value chain to deliver high quality products in shorter lead time with flexibility in order size. Moreover, having endless efforts to ensure internationally accepted employment practice, our clients recognize us as a partner to protect their value system and images among final consumers. It is a moment of celebrate for NIPAGROUP to introduce ourselves to our clients and patrons. We believe whatever we have achieved; its credits should be directed toward our clients.

#### 2.9 Bankers

Bank Name	Bank Logo
South East Bank Limited	Southeast Bank Limited a bank with vision
NCC Bank	NCC Bank With You. Always.

#### 2.10 Certification

ISO 9001:2000 GOTS Certified GRS Certified BSCI Certified



#### 2.11 Products

Product Name	Image
Denim Pant	
Non Denim Pant	
Jacket	

# 2.12 Other Information of KC Washing Plant

- 1. Fire Extinguisher -81
- 2. Fire house point-4
- 3. Fire alarm Bell-6
- 4. Fire Alarm Switch-8
- 5. Emergency Light-46
- 6. Emergency Light con. WITH IPS-yes
- 7. Fire Fighters-72
- 8. Trained Fire Fighters FSCD-40
- 9. First aid Box-3
- 10. First Aiders-8
- 11. Fire Bucket-12
- 12. Fire Water Bucket-12
- 13. Fire Blanket-6

- 14. Fire Gas Mask-6
- 15. Fire Hook-8
- 16. Lock Cutter-2
- 17. Lock Bitter-8
- 18. Stretcher-2
- 19. Toilets(male)-14
- 20. Toilet(women)-8

#### **2.13 Machine Information**

- 1. Industrial Washer (Production)(Tonello)-6
- 2. Industrial Washer (Production) (Belly)-5
- 3. Industrial Washer (sample) (belly)-1
- 4. Industrial Washer (sample) Tonello-2
- 5. Centrifugal Hydro-extractor(Production)-5
- 6. Centrifugal Hydro-Extractor(Sample)-3
- 7. Industrial Stream Dryer(Production)-10
- 8. Industrial Steam Dryer(Sample)-1
- 9. Gas Dryer(Production)-3
- 10. Full Crinkle Machine with stream and heat-4
- 11. Plastic Attaching Machine-5
- 12. Fabric Grinding Machine (local Made)-5
- 13. Hand Sanding Machine(Local Made)-20
- 14. Diesel Generator-1
- 15. Air Compressor-1
- 16. Vertical Centrifugal Pump-1
- 17. Centrifugal Water Pump(Extra Pump)-2
- 18. Submergible Water Pump-2 -1
- 19. Jute Boiler-1
- 20. Shaper Machine-1
- 21. Heavy Duty Drill Machine-1
- 22. Heavy Duty Bench Grinder-1
- 23. ETP-1



# **2.14** Machine Information of KC Washing Plant (Industrial Data)

n: Washing		
MODEL	CAPACITY	M/C'S QNTY.
420 LW2	150 kg	06 Units
120 2 11 2	130 Ng	oo omes
A/W-450(S)	250 kg	05 Units
	8	
A/W-450(S)	120 kg	01 Units
A/W-30 (S)	25 kg	01 Units
A/W-30 (S)	50 kg	01 Units
A/W-100 (S)	50 Kg	01 Units
A/W-100 (S)	25 Kg	01 Units
Hydro - Ext	ractor	
SHF-42	145 kg	03 Units
51112 42	143 Kg	05 Cints
SHE-25	35 Kg	02 Units
5112 23	33 116	02 Cints
SHE-25	30 Kg	01 Unit
	8	
Drayer		
LDS-300	136 Kg	5 Units
LDS 300	130 Kg	5 Omes
LDS-250	100Kg	1 Units
222 200	100128	1 Cinus
	76 pcs	03 Units
Crinkle M	-	
CFCM	500 Pcs/8 hrs.	
amononiama con	5 1	
S19000/S12-600a	_	
Caindin		
FGM(LM)		05 Units
	<u> </u>	
Hand Sandir	ng m/c	
		20 Units
Generat	or	
P300	450 KW	01 Units
*		
GA75 AP	245.7 Ltr./s	01 Units
Water Pu	mp	
MEGA G 80–250	50 m <sup>3</sup> /hr.	
	420 LW2  A/W-450(S)  A/W-30 (S)  A/W-30 (S)  A/W-100 (S)  A/W-100 (S)  Hydro - Ext  SHE-42  SHE-25  SHE-25  Drayer  LDS-300  LDS-250  Crinkle M  CFCM  ST9000/ST2-600a  Grinding  FGM(LM)  Hand Sandir  Generate  P300  Air Compress  GA75 AP  Water Pu  DPVF 65- 40	MODEL         CAPACITY           420 LW2         150 kg           A/W-450(S)         250 kg           A/W-450(S)         120 kg           A/W-30 (S)         25 kg           A/W-100 (S)         50 kg           A/W-100 (S)         25 kg           Hydro - Extractor           SHE-42         145 kg           SHE-25         35 Kg           SHE-25         30 Kg           Drayer           LDS-300         136 Kg           LDS-250         100Kg           76 pcs         Crinkle M/C           CFCM         500 Pcs/8 hrs.           ST9000/ST2-600a         Depends on design           Grinding m/c         FGM(LM)           Papends on design         Papends on design           Generator           P300         450 KW           Air Compressor           GA75 AP         245.7 Ltr./s           Water Pump         DPVF 65-40         18.0 Ltr./s

## 2.14.1 Picture of Machine



Figure-1: Belly Machine



Figure-2: Tonello Machine (Washing)





Figure-3: Hydro-extractor



Figure-4: Dryer (Bangla)



Figure -5: Dryer Machine (Triveneta)



Figure-6: Destroyer





Figure-7: Tagging Machine



Figure-8: Whisker



Figure-9: PP Spray

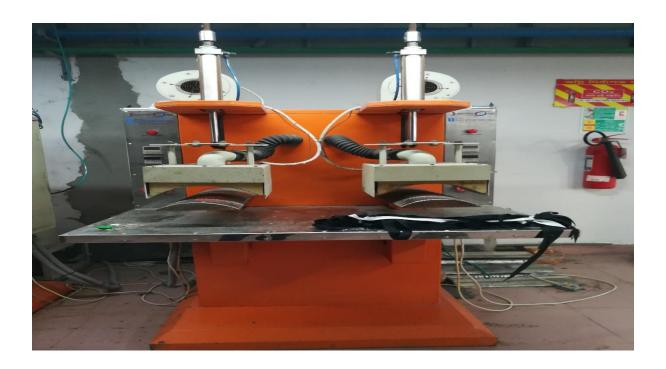


Figure-10: 3D Crinkle



Figure-11: Grinder



# 2.15 Shift of Washing Plant

Working S	Schedule: Shift - A		
Starting Time	<u> </u>	8:00 AM	
Break / Lunch Ti	ime:	1:00 PM - 2:00 PM	
Finish Time:	Finish Time: Normal Finish Time		
	8:00:00 Hrs.	2:00 Hrs.	
Starting Time	Starting Time:		
Break / Dinner T	Break / Dinner Time		
	Normal Finish Time	Normal Overtime Hours	
	8:00 Hrs.	2:00 Hrs	
Working Schedule	Working Schedule: General Shift ( If Applicable)		
Starting Time: 08:	Starting Time: 08 : 00 AM		
Break / Lunch Time : 01 - 02 PM			
Finish Time : 05: 00 PM	Normal Finish Time	Normal Overtime Hours	
	8:00 Hrs.	2:00 Hrs.	

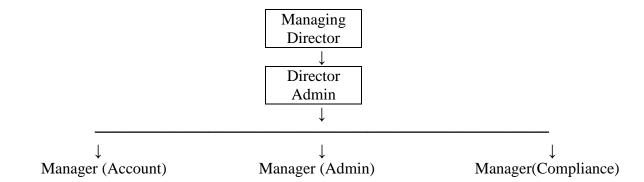
## 2.16 Layout of KC Washing Plant



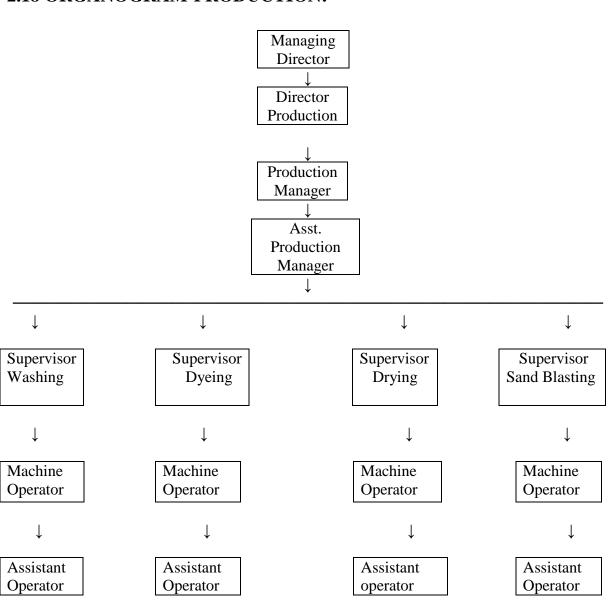
Figure: Layout of KC Washing Plant



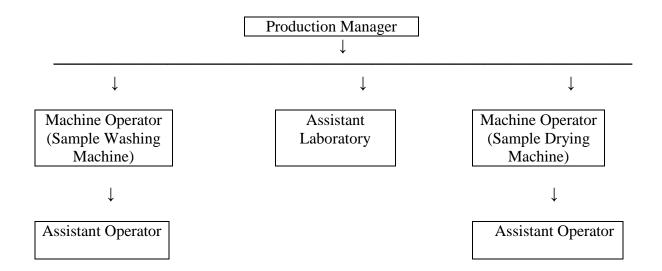
#### 2.17 ORGANOGRAM-ADMINISTRATION:



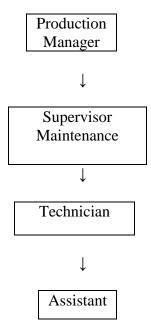
#### 2.18 ORGANOGRAM-PRODUCTION:



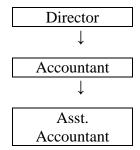
#### 2.19 Organogram Laboratory:



#### 2.20 Organogram Maintenance:



#### **2.21 ORGANOGRAM FINANCE:**





# CHAPTER-3 GARMENTS WASHING AND DYEING

#### 3.1 MACHINE DESCRIPTION

There are 5 sample machine and 11 industrial machine in kc washing plant. Here also 10 dryer and 5 hydro-extractor. In 5 sample washing machine 2 tonello and 3 belly machine and in 11 industrial washing machine 6 tonello and 5 belly machine. In 10 dryer there is 6 modern Dryer and 4 Bangla dryer.

#### 3.1.1 SAMPLE WASHING MACHINES

No of machine -3

Manufacturing company: Bengal Heavy Electric Engineering.

Manufacturing country: Bangladesh.

#### Features:

➤ Single door design for general washing, sample washing

Machine body and essential parts are made of stainless steel.

> Preset front and backward rotation.

> Conventional machine.

#### Specifications:

Capacity: 30kg

➤ Inner Cylinder: 28"X34"

> Thickness of inner drum: 3mm

➤ Motor (HP): 1HP, 0.75KW

➤ Power Consumption: 2.3 Amp

➤ Steam Consumption: 2 HP, 31 Kg

Water Inlet: 2", 1way in.

> Steam Inlet: 1", 1way in.

➤ Water Discharge: 3", 1 way out.



#### 3.1.2 INDUSTRIAL WASHING MACHINES

No of machine -5

Manufacturing company: Bengal Heavy Electric Engineering.

Manufacturing country: Bangladesh.

#### Features:

- > Single door design for general washing, sample washing.
- Machine body and essential parts are made of stainless steel.
- > Preset front and backward rotation.

#### Specifications:

Capacity: 200 kg

➤ Inner Cylinder: 42"X88"

> Thickness of inner drum: 3 mm

➤ Outer Cylinder: 54"X960"

➤ Motor (HP): 10HP, 7.5KW

➤ Power Consumption: 17 Amp

> Steam Consumption: 15 HP, 230 Kg

Water Inlet: 2", 2 ways in.

> Steam Inlet: 1", 2 ways in.

➤ Water Discharge: 3", 2 ways out

#### 3.1.3 Modern Industrial Washing Machine:

No. of machines: 6

Manufacturing Company: Tonello

Model no: G1 420 LW2

Manufacturing Country: Italy

#### Features:

They are particularly well-suited for the treatment of jeans, and are equipped with a basket with special beaters that speed up the process while at the same time guaranteeing uniform results every time. G1 LW2 / MW2 machines are fitted as standard with a B&R control system, a latest-generation microprocessor, as well as a touch screen. Tonello software optimises the functions of each machine, allowing the user to store a large number of automated programs. Recipes can be easily transferred from one machine using a USB drive, and a simple network connection enables control from a PC with the Tonello supervision system as well as interfacing with third-party management systems.

#### Specifications:

> Capacity: 150 kg (1:10)

➤ Inner cylinder: 1878 mm dial x 1490 mm

Wash motor: 7.5 KWExact speed: 110 RPM

➤ Main door opening: 300 mm dial

➤ Inspection door opening: 300 mm dial

Water consumption: 45 Liter/Kg

Drain: 115 mm dial, 2 ways outPower consumption: 0.127 kWh/kg

➤ Thermal fluid connection consumption: 1.5" X 1.5" BSP, 8000 KCAL/hr.

Overall dimension: 1950mm(W) X 2500mm(D) X 2100mm(H)

### 3.1.4 Hydro-Extractors:

No of machine: 5

Manufacturing Company: Tongxin Ltd

Manufacturing Country: China



#### Features:

- ➤ Due to solid connections it can be positioned onto firm floorings to operate.
- ➤ It has excellent electrical layout in prevention of electricity leakage, shock, which is important in wet conditions in the operations.
- ➤ Machine operations are made easy, with convenient start-stop operations for maximum efficiency.
- > The inner stainless steel is well balanced, thus achieving longer life span and assuming energy efficiency of machine.
- ➤ Shock absorbers are well paced in the three suspension points to reduce vibrations.
- > Stainless steel constructions in major parts ensure durability.

#### Specifications:

Model no: SHE-42Capacity: 145 kg

➤ Inner cylinder: 1067dial X 419mm

Over all dimensions: 2150 mm (W) X 1650 mm (D) X 1050 mm (H).

Wash motor: 7.5 KWExtract speed: 860 RPM

#### 3.1.6 SAMPLE DRYING MACHINES:

No. of machines: 01

Manufacturing company: TRIVENETA GRANDI

Manufacturing country: ITALY

#### Specifications:

Capacity: 18 Kg

➤ Basket size: 700 mm (dial) X 470 mm

➤ Volume: 180 Litres

> Dry clean motor: 0.37 KW

Extract motor: 1.5 KWExtract speed: 220 rpm

➤ Loading door opening: 400 mm (dial)

➤ Model: E/50V STEAM

➤ Volt:400

#### 3.1.7 INDUSTRIAL DRYING MACHINES:

No. of machines: 10

Manufacturing company: TRIVENETA GRANDI

Manufacturing country: ITALY

#### Specifications:

Capacity: 145 kgModel: E/250RV

➤ Volt: 400

Serial No: 16615Frequency: 50Hz

#### 3.2 Dry Process Section:

#### 3.2.1 Machine Name: 3D Wrinkle

No of machine: 07

Manufacturing Company: Method

Manufacturing Country: Turkey

Features:

#### Specifications:

• Model: 3D-CEF4

• Serial No: 16-160

• Date of Manufacturing: 2016

#### 3.2.2 Machine Name: Industrial Oven

Number of Machine: 01

Manufacturing Company: Triventa Grandi

Manufacturing Country: Italy



#### Specifications:

• Model: DTS380

• Serial No: 17608

• Manufacturing Date: 2017

Voltage: 400 KWFrequency: 50 HZ

#### 3.2.3 Machine Name: Circular 3D Machine

Number of Machine: 01

Manufacturing Country: Turkey

Manufacturing Company: Metod

#### Specifications:

• Model: DOC-3D-CRS

• Serial Number: MTD17039

• Frequency: 50HZ

• Voltage: 180V

• Weight: 10000 Kg

• Temperature: MAX 200 Degree Calcius

### 3.2.5 Machine Name: P.P Spray

Number of Machine: 12

Manufacturing Country: Turkey

Features:

### 3.2.6 Machine Name: Tag Gun

Number of Machine: 6
Manufacturing Country:
Manufacturing Company:

#### Features:

- Machine body are generally made of plastic.
- Inside the tag gun there is a pin which is made of metal.

#### 3.2.7 Machine Name: Grinding Machine

Number of Machine:05

Manufacturing Country:

Manufacturing Company:

#### Features:

- Machine body and essential parts are made of metal.
- Made for specially destroy garments material.
- There are two wheels which are used to destroy garments material.
- These two wheels are made of sand.



#### 3.3 Sample section

#### **3.3.1Sample Washing machine (belly)**

No of machine:01

Manufacturer: bangladesh

Manufacture Company: Bengal Heavy Electric Engineering.

#### Specification;

Capacity: 30kg

➤ Inner Cylinder: 28"X34"

➤ Thickness of inner drum: 3mm

➤ Motor (HP): 1HP, 0.75KW

➤ Power Consumption: 2.3 Amp

> Steam Consumption: 2 HP, 31 Kg

Water Inlet: 2", 1way in.

> Steam Inlet: 1", 1way in.

➤ Water Discharge: 3", 1 way out.

#### 3.3.2 Sample Washing Machine (tonello)

No of machine: 02

Manufacturer Company: Tonello

Manufacturer country: Italy

Specification;

Capacity:50 kg

**>** ]

#### 3.3.3 Sample Drying Machine (Modern)

No of machine: 01

Manufacturer Company: TRIVENATA GRANDI

Manufacturer country: ITALY

Specification

Capacity: 18 Kg

> Basket size: 700 mm (dial) X 470 mm

➤ Volume: 180 Litres

> Dry clean motor: 0.37 KW

- > Extract motor: 1.5 KW
- > Extract speed: 220 rpm
- ➤ Loading door opening: 400 mm (dial)
- ➤ Model: E/50V STEAM

#### 3.3.4 Lab machine

- > Electrical Balance
- Crock Meter
- > Sample washing machine
- ➤ Woven
- > Dryer
- > Rabing tester
- > PH tester
- ➤ Gray scale
- > Gayro-wash machine



# **CHAPTER-4**IMPACT OF INTERNSHIP

#### 4.0 Impact of the Internship

#### 4.1 Sample section/ R and D section

- ➤ To know about different types of testing such as rubbing test, ph test, Wash Fastness test, Light Fastness test, Water fastness test etc.
- ➤ How to Increase GSM of Fabric
- ➤ How to increase fastness of fabric
- ➤ How to make the recipe of washing

#### **4.2** Washing section (wet):

- > To know about chemical function and its implementation
- > To know about shade variation
- > To know about effect
- > To know about washing faults and its remadies
- > To know about different types of wash technics
- > To know how to drive tonello and belly machine
- > To know about different types of wash
- > To know how to match the shade and color ton

#### 4.3 Washing Section (dry)

- > To know about different type of dry wash
- > To see the whisker pattern
- > To know how to do pp spray
- > To know how to do grinding

#### 4.4 Chemical Store

- > To see different chemical for different wash
- > To know about chemical function



# **CHAPTER -5**

# CONCLUSION

#### **Conclusion**

Through the training we have learned about different types of washing such as acid wash, bleach wash, Enzyme wash, Stone enzyme wash, stone acid wash etc. This industrial training also gives us to enlarge our knowledge and to implement our theoretical knowledge practically for practical using our knowledge we can identify the variation between practical and theoretical learning. It also a big opportunity to cope with the industry environment .KC washing plant is a new plant which is established in 2017 we were the first intern of this plant for the first trainee we hope we got more opportunity to learn and gain practical knowledge.