

# Model Program Book



# SHORT TERM INTERNSHIP

(On-Site)

Designed & Developed by



**ANDHRA PRADESH  
STATE COUNCIL OF HIGHER EDUCATION**

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

PROGRAM BOOK FOR  
**SHORT-TERM INTERNSHIP**  
(On-site)

Name of the Student : B. Jayasree

Name of the College : SML Govt. Degree College (Yemmegalur)

Registration Number : 20358049007

Period of Internship : From: 01-10-2022

To: ~~03-11-2022~~

03/11/2022

Name & Address of the Intern Organization : NDBL COTTON GINNING &  
PRESSING INDUSTRIES LTD,  
MADIRE, ADONI.

RAYALASEEMA UNIVERSITY

NOVEMBER 2022

**An Internship Report on**  
**NDBL COTTON GINNING & PRESSING INDUSTRIES LTD,**  
**MADIRE, ADONI.**

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*Submitted in accordance with the requirement for the degree of*  
**B.Sc., B.Z.C. II Year 2021-2022**

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*Under the Faculty Guideship of*  
**Dr. S. Khadar Basha**

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*Department of Botany*  
**SML Govt. Degree College, Yemmiganur**

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Submitted by:

B. Jayasree

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Reg. No: 20358049007

*Department of Botany*

**SML Govt. Degree College, Yemmiganur**

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7<sup>TH</sup> November 2022

## Student's Declaration

I, R. Jayasree a student of II Year B. Sc. B.Z.C. Program, Reg. No. 20358049007 of the Department of BOTANY SML Govt. Degree College, Yemmiganur do hereby declare that I have completed the mandatory internship from **01-10-2022 to 05-11-2022** in **"NDBL COTTON GINNING & PRESSING INDUSTRIES LTD, MADIRE, ADONI"** under the Faculty Guideship of Dr. S. Khadar Basha, Department of Botany, SML Govt. Degree College, Yemmiganur.



(Signature and Date)

## Official Certification

This is to certify that B. Jayasree

Reg. No. 20358049007 has completed his/her Internship in **NDBL Cotton Ginning & Pressing Industries Ltd, Madire, Adoni** as Trainee under my supervision as a part of partial fulfillment of the requirement for the Degree of **B.Sc. B.Z.C. II year** in the Department of Botany, SML Government Degree College, Yemmiganur.

*This is accepted for evaluation.*

*(Signatory with Date and Seal)*

### Endorsements

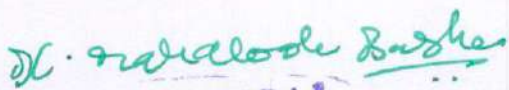
Faculty Guide



Head of the Department



Principal



**PRINCIPAL**  
S.M.L. Govt. Degree College  
YEMMIGANUR. Kurnool (Dist.)



## Acknowledgements

It gives me immense pleasure to express our gratitude towards my teacher and project guide, Dr. S. KHADAR BASHA, lecturer in Botany, Department of Botany, SML Government Degree college, Yemmiganur, Kurnool (Dt.) for his constructive criticism and inspiring guidance and concern in bringing out this piece of work.

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I extend my sincere thanks to the NDBL Cotton Ginning & Pressing Industries LTD. Madire. and

I would like to thank NDBL all workers for their support throughout the project work.

I would like to thank my parents for their support.

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## CHAPTER 1: EXECUTIVE SUMMARY

The internship report shall have a brief executive summary. It shall include five or more Learning Objectives and Outcomes achieved, a brief description of the sector of business and intern organization and summary of all the activities done by the intern during the period.

"The internship report contains six chapters in the following order; information about the organization exercising management of the internship, observation during internship, conclusions, Recommendations and way forward of the internship attachment.

The organization was suitable for internship attachment, because, it has use the future. They are so interactive and willing to be the consultant.

As an internship, the work under the basis of the cotton ginning process and Humidity Testing and how to work the machinery. As a part of the internship ~~report~~ I'm working on the internship report "well known" NDBL Cotton Ginning & Pressing LTD. Industry. During my course, I have gained valuable knowledge and experience in the industry.

It is advisable that student who will carry out the future field attachment, should be willing and interested respect to carer.

The report also explains the information of various business skills.

Overall the NDBL cotton industry useful the students. and Business knowledge to develop the internship part of the students in the society.

In This report, cotton weighing and cotton Ginning process, pressing the cotton and bales Humidity Testing, cotton bales Transportation and cotton industry advantages and disadvantages explained in this report.

\* Learning objectives and outcomes achieved :-

- \* Understand the cotton Ginning and pressing and Transportation of cotton bales.
- \* Appreciation of the practical life, real life situation challenges associated with application of the business knowledge acquired.
- \* I have developed business skills, self-awareness of the career and experience from this internship
- \* To learn about the functioning mechanism of cotton industry.
- \* To sell the seeds to oil industry for extraction of cotton seed oil.

## CHAPTER 2: OVERVIEW OF THE ORGANIZATION

### Suggestive contents

- A. Introduction of the Organization
- B. Vision, Mission, and Values of the Organization
- C. Policy of the Organization, in relation to the intern role
- D. Organizational Structure
- E. Roles and responsibilities of the employees in which the intern is placed.
- F. Performance of the Organization in terms of turnover, profits, market reach and market value.
- G. Future Plans of the Organization.

### A: Introduction of the Organization :-

NDBL Ginning and pressing industry was established in a serene environment and sprawls over 9 acres of land in the industrial area of Adoni at Madive village during the year 2021. SRI. B. KUBERNATH is the Managing Director of this Industry, many skilled workers and labour for carrying out various tasks in the industry.

NDBL buys raw cotton directly from the cotton farmers through the aegis of Agricultural produce Market Committees (APMCs) conducted auctions in the APMC yards.

Ginning, in its strictest sense, refers to the process of separating cotton fibers from the seeds. The cotton gin has as its principal function the conversion of a field crop into a saleable commodity. Thus, it is the bridge between cotton production and cotton manufacturing. At one time the sole purpose of cotton gin was to separate fibers from seed. But today's modern cotton gin is required to do much more. To convert mechanically harvested cotton into a saleable product, Gins of today have to dry and clean the seed cotton,

Separate the fiber from the seed, further clean the fibers and place the fibres in to an acceptable package for commerce.

The cotton Gin actually produces two products with cash value i.e. the fibre and the cotton seed.

The Fibre :- The fibres are the more valuable products, and the operation of cotton gins are usually oriented towards fibre production.

The Cotton Seed :- Cotton seeds are usually sold to cotton oil mills for conversion into a number of important and valuable products, but in some cases, they may be saved for planting purpose.

In essence, the modern cotton gin enhance the value of the cotton by separating the fibre from seed and by removing objectionable foreign matter, while preserving as nearly as possible the inherent qualities of the fibre. NDBL gin can separate and bale about 2,30,000 kilograms of cotton in one day.

### LEARNING OBJECTIVES & OUTCOMES ACHIEVED.

- \* To learn about the functioning mechanism of cotton industry
- \* To understand the knowledge of testing the quality of cotton
- \* To analyse the fibers viz. lint and luss fibres.
- \* To understand the Ginning and pressing process
- \* To remove all the foreign waste from the cotton.
- \* To test humidity in cotton.
- \* To sell the seeds to oil industry for extraction of cotton seed oil.

All the above-mentioned objectives are learned practically by handling the instruments and machinery in the industry.

## B. Vision, Mission and Values of the Organization :-

### ⇒ Vision :-

Achieving the twin visions of

- a) Rendering help to the cotton farmers by way of social services
- b) Endeavouring to attain commercial gain by sustained growth of the Ginning & Pressing industry.

### ⇒ Mission :-

- \* Helping cotton farmers by ensuring them remunerative price for their produce and thereby protect their interest.
- \* In the case of support price operations, procuring the entire quantity of kapas offered to prevent distress sale by the farmers.
- \* To improve the production, productivity, quality, marketing infrastructure and ginning capabilities.
- \* To provide the good quality, contamination free cotton for production of quality yarn to meet international competition.

### ⇒ Values of the Organization :-

- \* Acting with integrity and judiciousness with transparency and accountability with courtesy and understanding.
- \* Judiciously managing the NDBL's resources and doing so with the best use of modern knowledge and management practices and with the application of information technology.
- \* This charter is a declaration of our mission, values, activities and standards and our commitment as an industry to help, achieve a place of prominence in the country.

## C. Policy of the organization, in Relation to the Intern

### Role :-

NDBL train the interns in all aspects of maintaining a Ginning & Pressing unit.

## D. Organizational Structure :-

NDBL organization has the following structure managing Director, Executive Officers, Accountant, clerks, Mechanics, skilled workers and Labours.

## E. Roles and Responsibilities of the Employees in which the Intern is placed.

Above said employees are carrying out their respective works sensibly and punctuality.

## F. Performance of the organization in terms of turnover Profits, Market Reach and Market Value :-

In order to meet the growing demand of quality cotton of the textile mills at large, a stringent drill is followed through variety-wise purchases of kapas, its processing, packing, sample testing and scientific storage of cotton bales in the godowns.

To overcome the problem of contamination in cotton, maximum quantities of kapas are arranged to be processed in the modern ginning and pressing factories only.

All operations being sales driven, quality cotton of any specific grade and parameters, can be supplied to meet the specific demand of the Textile mills.

## G. Future plans of the organization :-

To train more interns so that skilled workers will be produced in short duration, expand the industry with one more unit, to provide more employability to the marginal people, gain more commercial value and profit.

### CHAPTER 3: INTERNSHIP PART

Description of the Activities/Responsibilities in the Intern Organization during Internship, which shall include - details of working conditions, weekly work schedule, equipment used, and tasks performed. This part could end by reflecting on what kind of skills the intern acquired.

#### \* Activities during Internship period :-

During the internship. I got to know the cotton Ginning working mechanism of the organization I got the knowledge to execute numerous business tasks and connect to the ~~internet~~. ~~to the~~ other tasks. I got the number of business tasks and business skills.

#### \* Weekly work schedule :-

The weekly work schedule in internship period is the follows :-

01 oct - 07 oct :- week - 1 :- Visited the company along with our faculty and my classmates. and interaction with company managing Director. NDBL Cotton Ginning & pressing LTD. industry Introduction and cotton introduction and Flow chart of working mechanism

10 oct - 15 oct :- week - 2 - weighing machine, quality check of the cotton, machinery used in industry, Processing.

17 Oct - 22 Oct - Week - 3 - Ginning of cotton, cotton Bales pressing, seeds transfer to the oil industry, Humidifications and Cotton bales Transportation.







24 Oct - 29 Oct: Week - 4 - Merits of the industry, Demerits of industry and Diseases to the workers and final Conclusion.

31 Oct - 05 Nov: Week - 5 - The Fifth week I write the final report record of the this internship project work.

### \* Acquired skills :-

- \* Problem - Solving skills
- \* Decision - making skills
- \* Communication skills.
- \* Self - confidence skills.
- \* ~~A~~ work Assembling and Dissembling skills
- \* machines operating skills and Technological skills.

### ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 01-10-2022 Saturday	visited the company along with our faculty and my classmates.	Got an overview of industry	
Day - 2 03-10-2022 Monday	Interaction with Company Managing Director	Administrative & Entrepreneurial skill	
Day - 3 04-10-2022 Tuesday	Interaction with Company Supervisor & staff	Employability skill & work skill	
Day - 4 05-10-2022 Wednesday	Introduction	over all knowledge on cotton Ginning & Pressing	
Day - 5 06-10-2022 Thursday	Cotton	Nature of cotton fibers Types of Cotton	
Day - 6 07/10/2022 Friday	Flow chart of working mechanism	Technical skills overall knowledge on Industry	



Week -1 (From date 01/10/2022 to Date 07/10/2022)

Detailed Report :- Introduction to NDBL Cotton Industry.

## INTRODUCTION :

NDBL COTTON GINNING & PRESSING INDUSTRIES LTD., was established in the area of 9 acres, year 2021 at Madive Village, Adoni Mandal, Kurnool dist. B. Kubernath is the Managing Director of this Company.



NDBL COTTON - GINNING & PRESSING INDUSTRIES LTD. PIC

Cotton is a soft, fluffy staple fiber that grows in a boll, or protective case, around the seeds of the cotton plants of the genus *Gossypium* in the mallow family Malvaceae. The fiber is almost pure cellulose, and can contain minor percentages of waxes, fats, pectins, and water.

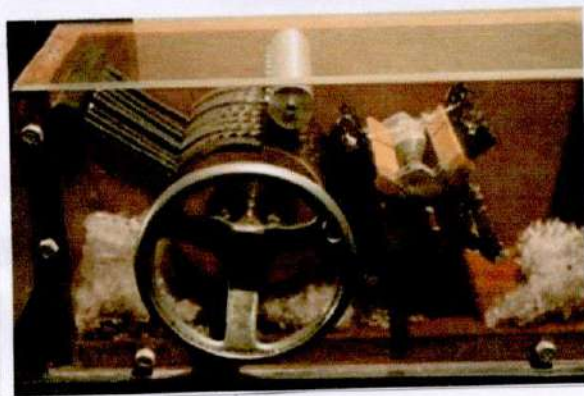
Cotton fibers are natural hollow fibers; they are soft, cool, known as breathable fibers and absorbent. Cotton fibers can hold water 24-27 times their own weight. They are strong, due absorbent and can stand up against abrasion wear and high temperature.

A cotton gin - meaning "cotton engine" - is a machine that quickly and easily separates cotton fibers from their seeds, enabling much greater productivity than manual cotton separation. The fibers are then processed into various cotton goods such as calico, while any undamaged cotton is used largely for textiles like clothing. The separated seeds may be used to grow more cotton or to produce cottonseed oil.

Handheld roller gins had been used in the Indian subcontinent since at earliest AD 500 and then in other regions. The Indian worm-gear roller gin, invented some time around the 16th century, has, according to Lakwete, remained virtually unchanged up to the present time. A modern mechanical cotton gin was created by American inventor Eli Whitney in 1793 and patented in 1794.









cotton fibers are produced in the seed pods ('bolls') of the cotton plant where the fibers ('lint') in the bolls are tightly interwoven with seeds. To make the fibers usable, the seeds and fiber must first be separated, a task which had been previously performed manually, with production of cotton requiring hours of labor for the separation. Many simple seed-removing devices had been invented, but until the innovation of the cotton gin, most required significant operator attention and worked only on a small scale.



A model of a 19<sup>th</sup> century cotton gin on display at the Eli Whitney Museum in Hamden, Connecticut.

**ACTIVITY LOG FOR THE SECOND WEEK**

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1 10-10-2022 Monday	Weighing Machine	Applicative skills	
Day -2 11-10-2022 Tuesday	Quality check of the cotton	observation skills	
Day -3 12-10-2022 Wednesday	Machinery used in Industry	Applicative and Technical skills	
Day -4 13-10-2022 Thursday	Machinery used in Industry	Applicative and Technical skills	
Day -5 14-10-2022 Friday	Processing	Applicative and Technical skills	
Day -6 15-10-2022 Saturday	Processing	Applicative and Technical skills	



Week - 2 (From Date 10/10/2022 to Date 15/10/2022)

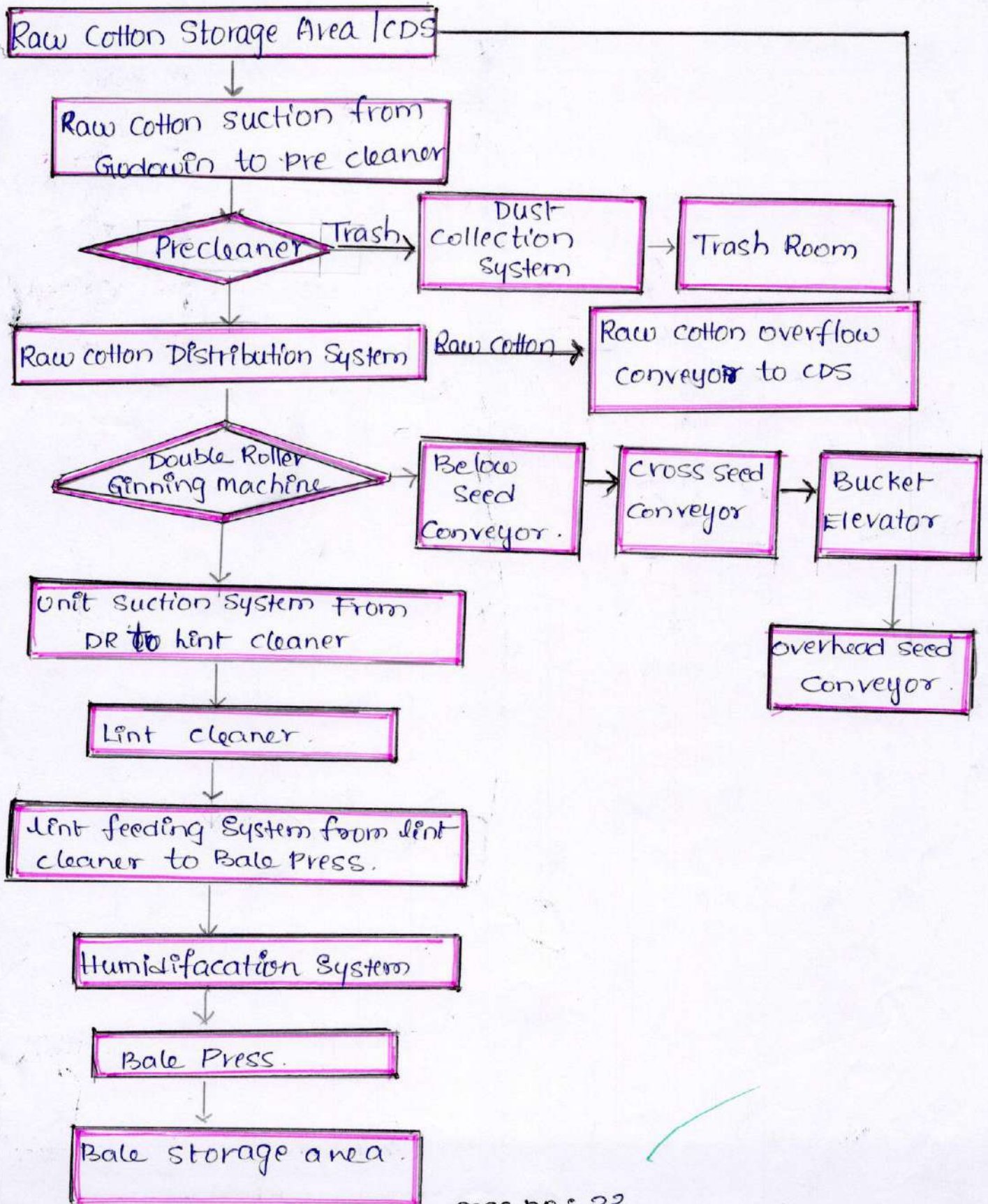
Detailed Report :- Weighing machine , processing .

## WEIGHING MACHINE :

Floor scales and heavy-duty scales are used for bulk weighing, logistics, and other manufacturing process across a variety of industries. Whether your process requires portability for flexible use, hygienic design for fast and easy cleaning, or rugged construction to accurately weigh heavy freight, we have industrial floor scales to meet your specific needs. with capacities from 300 kg up to 12,000 kg, achieve reliable measurements of your materials.



# \* Flow Process Chart for Double Roller Ginning and Pressing Unit.



## MACHINERY USED :

- Tractor attachment.
- Seed cotton dispenser & Heavy Contamination remover.
- Raw Cotton Air Separator.
- Pre-cleaner.
- screw conveyor.
- Double Roller Ginning Machine Magnum (1637 mm).
- Double Roller Ginning Machine Tejas (1477 mm).
- Bucket Elevator.
- ILSS (Intermittent Lint Suction System).
- Fire Detection & Diversion System.
- lint cleaner.
- Battery Condenser.
- Humidification System.
- Down packing cotton Bailing press.
- Up packing cotton Bailing press.
- cotton Boll Opener.
- Auto Indexing Ginning Roll Groover.



## PROCESSING :







Ginning is the first Mechanical process involved in processing cotton. Ginning machine separates cotton fibers from the seed bolls and dust particles, cotton fibers pressed to bales by using hydraulic pressing machine. The development of different varieties, fiber growth, Grading and Marketing.



## Objects of Ginning :

- \* Make the fiber - free from seeds without gin-cut fiber.
- \* Ensure the best quality of cotton and get the fair price of cotton in the market.
- \* To be confident that fiber does not contain excess and unexpected seeds or any other particles.
- \* To make the spinning process easier and effective.

### ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1 17-10-2022 Monday	Ginning of cotton	Applicative and Technical skills	
Day -2 18-10-2022 Tuesday	Ginning of cotton	Applicative and Technical skills	
Day -3 19-10-2022 Wednesday	Cotton Ball Pressing	Applicative and Technical skills	
Day -4 20-10-2022 Thursday	Seeds transfer to the oil	Applicative skills	
Day -5 21-10-2022 Friday	Humidification	Applicative skills	
Day -6 22-10-2022 Saturday	Transportation	Applicative skills	



Week - 3 (From Date 17/10/2022 To Date 22/10/2022)

Detailed Report :- Ginning of Cotton, Cotton Bale pressing, Transportation

## Cotton Ginning Process:

1. At first, the cotton will go through dryers to reduce moisture content.
2. Then the cotton is to go through cleaning equipment to remove foreign particles or materials.
3. The cotton is then sent to the air conveyed to gin stands where revolving circular saws pull the lint from the saw teeth by air blasts or by rotating brushes.
4. Then the cotton will compress into 500 pounds weigh contained bales.
5. Then the bales of cotton are shipped to the textile spinning mill for further processes.
6. A quality control team will monitor the overall process to ensure quality.



## Modern Cotton Ginning process:

In an automatic ginning process of cotton, a modern machine is preferable. Before cotton arrives at the spinning mill to spin into thread and woven into the fabric, it makes the journey from field to bale. Cotton needs about five months to grow from a planted seed to a ready plant.

- \* The harvesting machine named cotton picker plucks fluffy seed cotton out of the plant's boll and leaves a trail of burrs and sticks behind.
- \* The machine empties the pulled cotton into a tractor-drawn buggy.
- \* The machine builds the seed cotton into a humongous block called a module.

A truck transports the module to the processing plant, which is known as a cotton gin. Once the cotton arrives at the processing plant, and sticks and burrs are removed as well as any lingering debris and seeds. A truck dump the module into a feeder, which moves the packed seed cotton into a dispenser.

The ground seed cotton falls into a conveyor belt, which leads to the hot box, then the hot box mixes the seed cotton with hot air, which allows the moisture to evaporate, making the seed cotton easier to clean.

## Core Machine Used in Ginning:

- A machine called the Wad Buster up the clumps of seed cotton by tossing in against a screen. Loose remains fall through the screen openings down a narrow chute.
- Then the seed cotton moves through a machine called the Steady flow, which divides it equally between two processing lines.
- On each line, the seed cotton enters a Burr machine, which grabs the seed cotton with a circular saw and swings it against metal bars.

The centrifugal force snakes off the heavier debris. The seed cotton passes the machine through one pipe and the debris through another. A large auger transfers the debris to a waste drop and out of the plant. Then the seed cotton is ready for the final step of processing.

A network of pipes feeds a row of machines called Gin stands. The gin stand separates the seed from the fluffy stuff, called the lint. Each stand will arrange horizontally and separated by a steel rib. The saw teeth grab the seed cotton and pull the lint through the narrow gap between saw and rib. The seeds are too large to pass through, so it spins in front of the rib, then drops into a conveyor. The lint goes into a flue, which leads to the packaging area. And then use this cotton in the Spinning mill to make the thread.

### Types of Cotton Ginning

There are two basic types of ginning you may find. These are:

Saw Ginning

Roller Ginning

### Saw ginning of cotton

Saw ginning provides more clean cotton compared with manual or handheld separation process of seed from cotton.

### Advantage of Cotton Saw Ginning:

1. Saw ginned cotton is more uniform
2. Cotton is more clean than usual.

### The Disadvantage of cotton Saw Ginning:

1. Possibility of fiber breakage due to draw up the fiber from the surface of the seed.
2. Increase neps
3. Increase short fiber content

### Roller Ginning of cotton

Modern ginning is automatic ginning where productivity is maximized. For industrial purposes, this type of ginning technology is more preferable.

### Advantage of Roller Ginning of cotton:

1. Saw ginning ensures the quality of fiber is better which is better than the other process.
2. High production because of the use of advanced technology in the ginning process.

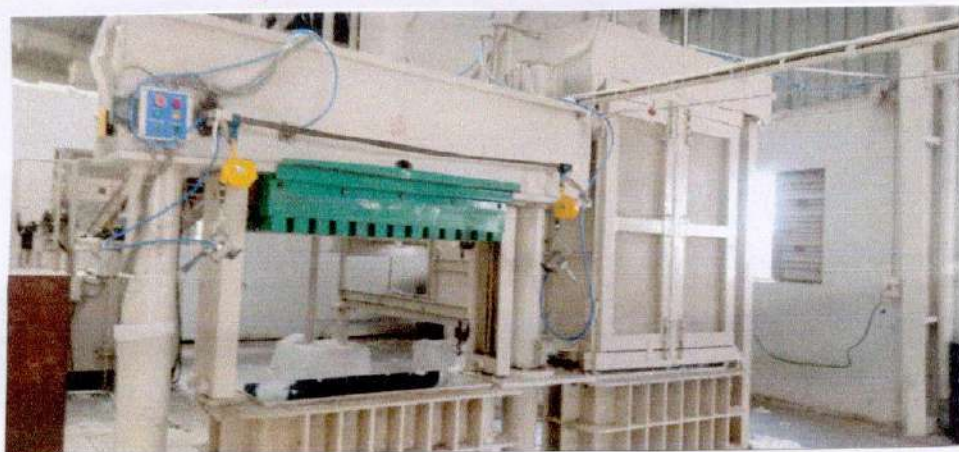
### The Disadvantage of Roller Ginning of cotton:

1. ~~Gen-cut fiber~~ The moisture of seed mixes up with fiber in processing which causes cake cotton fault.

### Faults in Ginning process of cotton:

1. Gen-cut fiber
2. Crushed seeds
3. Neps formation
4. Too much wastage.

## Cotton Bale Pressing Machine :



This cotton baling press machine compresses cotton on 30 ton - 40 ton and in this machine using ejection system for cotton bale. This is semi-automatic cotton baling machine in this machine using one heavy duty hydraulic jack for compress cotton and second mini hydraulic jack for ejection cotton bale.

Here we will describe 5 different types of hydraulic process and why you would need them.

- \* The Movable Table Hydraulic Press.
- \* The Movable Frame Hydraulic Press.
- \* The Air Operated Hydraulic Press.
- \* Double Acting Hydraulic Press.
- \* The Manual Hydraulic Press.
- \* The gin stand uses the teeth of rotating saws to pull the cotton through a series of "ginning ribs, which pull the fibers from the seeds which are too large to pass through the ribs.
- \* The cleaned seed is then removed from the gin via an auger conveyor system.
- \* The seed is reused for planting ~~or~~ is sent to an oil mill to be further processed into cottonseed oil and cottonseed meal.

\* The lint cleaners again use saws and grid bars, this time to separate immature seeds and any remaining foreign matter from the fibers.

\* The bale press then compresses the cotton into bales for storage and shipping.

\* Modern gin can process up to 15 tonnes (33,000 lb) of cotton per hour.

\* In Modern cotton production, cotton arrives at industrial cotton gins either in trailers, in compressed rectangular "modules" weighing up to 10 metric tons each or in polyethylene wrapped round modules similar to a bale of hay produced during the picking process by the most recent generation of cotton pickers.

\* Trailer cotton (i.e. cotton not compressed into modules) arriving at the gin is sucked in via a pipe, approximately 16 inches (41 cm) in diameter, that is swung over the cotton plants.

\* The need for trailers to haul the product to the gin has been drastically reduced since the introduction of modules.

\* If the cotton is shipped in modules, the module feeder breaks the modules apart using spiked rollers and extracts the largest pieces of foreign material from the cotton.

\* The cotton then enters a dryer, which removes excess moisture.

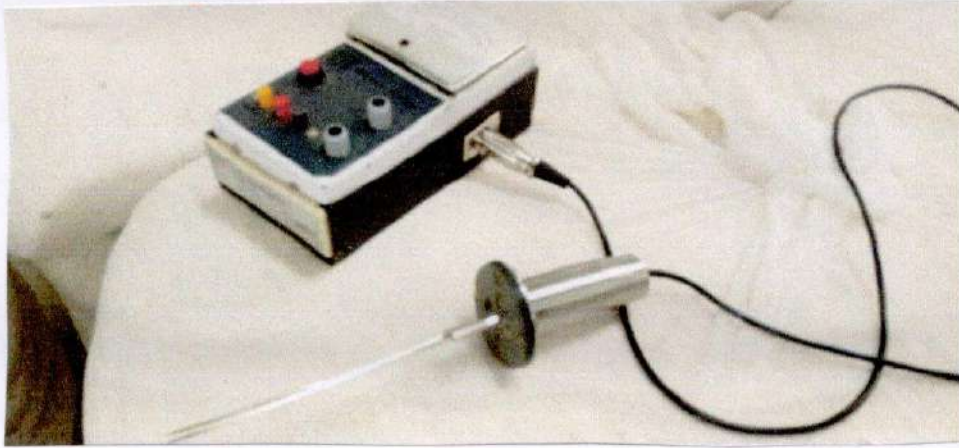
\* The cylinder cleaner uses six or seven rotating, spiked cylinders to break up large clumps of cotton.

\* Finger foreign material, such as soil and leaves, passes through rods or screens for removal.



## HUMIDIFICATION SYSTEM :

### Humidity Testing :



This moisture meter is microprocessor - based instrument; designed especially for moisture measurement of cotton and lint. It is a handheld meter and essential tool for cotton producers and suppliers helping them to measure the quality of the product.

### Details of Cotton Moisture Meter :

\* The Cotton Moisture Meter is a valuable testing instrument during the cotton collection, processing and when buying or selling cotton.

\* The newly designed Cotton Moisture Meter utilizes the relationship between moisture content and electrical resistance to effectively measure the moisture content of cotton, seed-cotton and lint quickly and accurately.

### Uses of Cotton Moisture Meter :

\* Cotton Moisture Meter used to check moisture in all kind of raw cotton to finished procedure, from farming to finished to finished yarn spinning stage.

## Working Mechanism of Moisture Meter:

Moisture Meter: Also called pin meter measures the moisture indirectly by measuring the resistance (conductance) with an electrical current that goes from one pin to the other. A pin meter measures the moisture as far as the pins are inserted.

## Using a Moisture Content Standard to Verify pin Moisture Meter Accuracy:

1. place the meter's pins on the moisture content standard's metal contacts.
2. Turn on the meter.
3. Check the reading & compare to value given in instruction (different standards may be calibrated for different values).

The best known humidity sensor is the capacitive type sensor, since water has an abnormally large dielectric constant and changes in relative humidity by adsorption of water provides a simple detection mechanism.

## Range of moisture meter:

High-quality moisture meters are accurate to within less than 0.1%. Low-end moisture meters can be very inaccurate, so multiple points of examination may be needed to confirm your findings. Readings of 5 to 12% are considered normal, and up to 17% is considered acceptable.







When measuring the moisture of cotton prior to ginning it, the ideal moisture content for cotton, according to information cited by the USDA, is between 6.5% and 8%.

## \* TRANSPORTATION:

After pressing Bales are transported to the Thread, cloth industries which are in Gujarat, Mumbai, Chennai etc.,



**ACTIVITY LOG FOR THE FORTH WEEK**

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 <del>24-10-2022</del> Monday	Merits of the Industry	Understanding and Applicative skills	
Day - 2 <del>25-10-2022</del> Tuesday	Merits of the Industry	Understanding and Applicative skills	
Day - 3 <del>26-10-2022</del> Wednesday	Demerits of the Industry	Understanding and Applicative skills	
Day - 4 <del>27-10-2022</del> Thursday	Demerits of the Industry	Understanding and Applicative skills	
Day - 5 <del>28-10-2022</del> Friday	Diseases to the workers	Understanding and Applicative skills	
Day - 6 <del>29-10-2022</del> Saturday	Conclusion	Reporting skills	



Week - 4 (From Date 24/10/2022 To Date 29/10/2022)

Detailed Report :- Merits and Demerits of Cotton Industry.

## MERITS :

- A bale of cotton weighs 480 pounds
- \* one bale produces enough oil to cook nearly 6,000 snack-size bags of potato chips.
- \* One bale of cotton can make 215 pairs of jeans; 249 bed sheets; 313,600 \$100 bills; 690 bath towels; or 1,217 T-shirts.

## COTTON SEED OIL :

Cottonseed oil is a commonly used vegetable oil that's derived from the seeds of cotton plants. A whole cotton seed contains about 15 to 20 percent oil.

Unrefined cottonseed oil contains a toxin called gossypol. This naturally occurring toxin gives the unprocessed oil its yellow color and protects the plant from insects. Unrefined cottonseed oil is sometimes used as a pesticide.

While gossypol been linked to infertility and liver damage, the toxin is removed during processing. Cottonseed oil goes through an extensive refining process which removes the threat of gossypol poisoning.

Cottonseed oil is used in cooking and is also used as a home remedy for certain skin conditions and ailments.

This oil is high in polyunsaturated fat which can help lower LDL ('bad' cholesterol) and increase HDL ('good' cholesterol).

It also contains saturated fat, which has the opposite effect on cholesterol and may increase the risk of heart disease.

one tablespoon (14 grams) of cottonseed oil contains 7 grams Trusted Source of polyunsaturated fat and 3.5 grams of saturated fat. According to American Heart Association Trusted Source guidelines, this is an acceptable amount of saturated fat in a vegetable oil.

### Cottonseed oil uses :

Cottonseed oil is commonly used in processed foods because of its ability to extend shelf life. Some of these products include:

- \* potato chips
- \* cookies and crackers
- \* margarine
- \* mayonnaise
- \* salad dressing

Cottonseed oil is also a popular ingredient for baking. It provides a solid fat index for shortening, making for baked goods that are moist and chewy. It also helps achieve a creamy consistency in icing and whipped toppings.

Cottonseed oil is also used by many fast-food chains for deep frying because it enhances the flavor of food instead of masking it. It's also less expensive than other vegetable oils.

Some processed foods may contain partially hydrogenated oils or trans fats, which raise your risk Trusted Source for cardiovascular disease and diabetes. Always read the label on packaged foods so that can limit your intake of these ingredients.

Cottonseed oil has many nonfood uses, too. In the 1800s, cottonseed oil was primarily used in oil lamps and to make candles. Nowadays, it's used in insecticides, laundry detergent, and cosmetics.

## Cottonseed oil for skin :

This is one use for cottonseed oil that isn't considered controversial. Cottonseed oil ~~that is~~ contains high concentrations of vitamin E, fatty acids, and antioxidants that have many benefits for your skin, including:

- \* moisturizing
- \* anti-aging
- \* anti-inflammatory properties

Certain fatty acids increase your skin's permeability. This allows your skin to better absorb other ingredients for better result.

linoleic acid, which is one of the fatty acids in cottonseed oil, is a common ingredient in skin care products. It's also used in antidandruff shampoos and after-sun creams because of its anti-inflammatory properties.

It's possible to be allergic to cottonseed oil. Place some oil about the size of a dime on your skin and rub in. If you have no reaction in 24 hours you should be able to use it.

## Cotton seed oil Benefits :-

There are dozens of unproven claims of benefits of the claims are purely anecdotal, but there's evidence to support others.

However, these are preliminary studies and more research is needed. As of yet, there's no science-backed reason to replace your other cooking oils with cottonseed oil.

## Anticancer effects :-

Gossypol is a toxic compound found in unrefined cottonseed oil. Its anticancer effects have been studied for years, and the research continues. Gossypol is removed from cottonseed oil during the refining process, so the amount that's left in cooking oil is almost none at all.

Animal and human studies Trusted source have found that gossypol prevented tumor growth and spread in some breast cancers.

Older animal studies found that gossypol improved the effects of radiation on prostate cancer cells. There's also evidence that cottonseed oil may suppress cancer cells that have been resistant to multiple drugs. One older study Trusted source also showed that gossypol reduced tumor growth and slowed or killed three prostate cancer cell lines.

Human trials have suggested potential benefits for slowing the progression of certain cancers, including gastroesophageal carcinoma.

## Lowers Inflammation :

Some research in animals Trusted Source has suggested that cottonseed oil may reduce inflammation. Specifically, rats injected with cottonseed oil had lower markers of inflammation after a stroke-like brain injury.

In humans, there's a lot of evidence that diets high in monounsaturated fats ~~have been~~ can reduce inflammation. People who eat a Mediterranean diet high in monounsaturated fats have been found to have significantly lower levels of inflammatory chemicals in their blood.

Inflammation has been linked to chronic disease, including heart disease. However, cottonseed oil contains only 18 percent monounsaturated fat. The Arthritis Foundation recommends other oils that have anti-inflammatory properties

## DEMERITS:

Cotton ginning factory is one of the dust releasing industries that is associated with a reduced pulmonary function tests and an increased prevalence of respiratory symptoms mainly dry cough, phlegm, chest tightness, chest wheezing, and breathlessness.

Cotton dust contains a complex mixture of ground-up plant matter, cotton fiber, bacteria, fungi, soil, or pesticides; all of which can affect the respiratory tract to cause reduced oxygen-retaining capacity through the production of pro-inflammatory mediators.

Cotton dust-related respiratory disorders start to drop in developed countries while the problem is quite neglected in developing countries like India.

According to studies done in Egypt, India, and Pakistan, workers in cotton ginning factories have a reduced in pulmonary function test measurements.

Moreover, working in cotton ginning factories is associated with an increased prevalence of respiratory symptoms which can vary among different sections of the factories.

Educational status, duration of employment, cigarette smoking and gender were significantly associated with respiratory symptoms.

Byssinosis is an occupational lung disease caused by inhalation of cotton or jute dust in inadequately ventilated working environments and can develop over time with repeated exposure.







Byssinosis commonly occurs in textile workers who are employed in yarn and fabric manufacturing industries.

It is now thought that the cotton dust directly causes the disease and some believe the causative agents are endotoxins that come from the cell walls of gram-negative bacteria that grow on the cotton.

Although bacterial endotoxin is a likely, the absence of similar symptoms in workers in other industries exposed to endotoxins makes this uncertain.

Current smokers are also at risk for developing byssinosis or having complications relating to byssinosis.

### ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1 31-10-2022 Monday	Record Writing	Reporting skills	
Day -2 01-11-2022 Tuesday	Record Writing	Reporting skills	
Day -3 02-11-2022 Wednesday	Record Writing	Reporting skills	
Day -4 03-11-2022 Thursday	Record Writing	Reporting skills	
Day -5 04-11-2022 Friday	ORAL PRESENTATION	Communication skills	
Day -6 05-11-2022 Saturday	Submission of Industry Connect Short Term Project		



Week - 5 (From Date 31/10/2022 To Date 05/11/2022)

Detailed Report :- Record writing , oral presentation.

In the past of Internship , I have collected the information about NDBL Industries in these four weeks .

I have learned the information and is written in the period of 5<sup>th</sup> week about NDBL Cotton Ginning & Pressing LTD. industries.

## CHAPTER 5: OUTCOMES DESCRIPTION

**Describe the work environment you have experienced** (in terms of people interactions, facilities available and maintenance, clarity of job roles, protocols, procedures, processes, discipline, time management, harmonious relationships, socialization, mutual support and teamwork, motivation, space and ventilation, etc.)

As the internship part, we visit NDBL industry. In the industry, the manager name is Kubernath sir. The manager sir said that the required information about the internship provided with us.

In the NDBL industry, the workers are also provided the information about the internship part. They can also explained working the cotton gin in each and every part with us. The workers told with the working in the near the cotton gin explain very clarity.

NDBL industry, the worker name is Mallappa said that the process of weighing and the transparent of cotton with the help of machines in each and every nearly. As we receive the information is in understanding way of the process of machine easily.

The manger Kubernath sir, water facilities are provided for meals with us in industry.

In the industry, every single worker is working is vory hardly. The manager provided good facilities to the workers.

In the industry, the timing is 9:00 am to 6:00 pm, the worker work is good in every day. The workers will spend the suitable time in the industry. All the members of workers should work very sincerely in the industry. In the industry, the team are also members as well as better works.

Kubernath sir and Mallappa Brother and also all workers was very supportive with us in the industry as a part of internship.

Describe the real time technical skills you have acquired (in terms of the job-related skills and hands on experience)

In the part of internship, we choose the NDBI Industry. To learn about the skills is in the industry.

Firstly, I learned the weighing in the Cotton Industry. The collection of the cotton with the help of farmers and Cotton Committee. And to learn the need of machinery for the weighing process.

- \* To learn about the separate of the materials with the need of Hot Box machine.
- \* To learn the separation of the seeds in Cotton with the use for Ginning machine.
- \* To the separation of Ginning Machine, the Cotton pass to Big Kanvear Belt to pressing machine to be understanding the process.
- \* In the process of ginning cotton, to be pressed in bales.
- \* The bales are very heavy and fully Ginning Cotton pressed.



- \* To learned how to packed in these process.
- \* To learned how the working, and how much percentage of moisture is used in moisture meter in bales.
- \* To know the transport of bales.
- \* Further, these technical skills is helpful for the established the industry with us.



Describe the managerial skills you have acquired (in terms of planning, leadership, team work, behaviour, workmanship, productive use of time, weekly improvement in competencies, goal setting, decision making, performance analysis, etc.

### \* Managerial Skills :-

- \* Problem solving skills & Decision-making skills
- \* Communication skills & Motivational skills.
- \* Collaboration skills
- \* Critical thinking skills
- \* To be detail attention skills
- \* Inter personal skills
- \* Organization and delegation
- \* Forward planning & Strategic thinking.

\* Planning :- planning involve the setting of goals and predeky mind goals are accomplished with the help of managerial functions like planning, directing, staffing, and controlling. planning provides standards against which actual performance is measured.

\* Teamwork :- The ability to work in a team provides for new and different perspective, helps motivations and reduces pressure. ultimately, a team is a great learning opportunity and might open up ~~do~~ the work Confidence you did even know existed.

## \* Leadership :-

Investing in leadership means investing in your ability to help bring out the best in yourself and in others. Good leaders are not only of ideas, but can act as persuasive & encouraging mentors who can help others go beyond their expectations.

Describe how you could improve your communication skills (in terms of improvement in oral communication, written communication, conversational abilities, confidence levels while communicating, anxiety management, understanding others, getting understood by others, extempore speech, ability to articulate the key points, closing the conversation, maintaining niceties and protocols, greeting, thanking and appreciating others, etc.,)

### \* Communication Skills :-

There are specific things to do that can improve our communication skills - listening skills, body language matters. be brief, yet specific. write things down. think before you speak. etc.

### \* Written Communication Skills :-

\* Think about the purpose of the message. keep it simple.

\* keep a place to jot down thoughts and ideas to write and read after.

\* Ask for help to constructive criticism.

### \* Confidence Levels while Communication anxiety management :-

\* Be clear and concise

\* Be confident

\* Be respectable

\* Be positive and be patient

\* use of body language

Describe how could you could enhance your abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity.

To develop and to improve our abilities in the working plane is various types while interacting and communicating with others. mainly we should have to know our strengths and also our weakness without fearing to interact with every person and working ~~freely~~ freely at work place, in environment and without misunderstanding

### \* Participation in Teams :-

In team participation promotes an atmosphere that fosters friendship and loyalty. This may motivate team members in parallel and align them to work harder. It helps an individual to possess communication skills, strengths and habits.

### \* Team work - making a contribution :-

- \* To develop a team mentality to think 'we' not me.
- \* Be respectful to others.
- \* Be helpful, Be a role model

\* Accept others

\* Avoiding rewarding people for things they do that annoy you.

Leading a team is not a simple thing. The successful team leader does not criticize and does not complain about people, gives honest and sincere praise and recognition and encourages other people, talks and is a good active listener.

Describe the technological developments you have observed and relevant to the subject area of training (focus on digital technologies relevant to your job role)

In NDBL Cotton Ginning & Pressing LTD. Industry I observed most of the modern equipment is available in industry. There are many devices to choose for each work. In the cotton leaves, sticks and the other waste material are separated with the help of these machines. They no need for humans, use for machines only.

The modern equipments are useful for separate the cotton seeds in cotton.

In the Ginning process of cotton, not only use for old machines, but also use for modern machines.

In the internship project I learned about the ~~interashi~~ machines. In the NDBL Cotton Industry established after 7 years ~~is~~ months is developed with the modern machines.



## Student Self Evaluation of the Short-Term Internship

Student Name: <i>B. Jayasree</i>	Registration No: <i>20358049007</i>
Term of Internship: From: <i>01-10-2022</i> To: <i>03-11-2022</i>	
Date of Evaluation:	
Organization Name & Address: <i>NDBL, Cottonginning &amp; pressing Industry LTD, madhe, Adoni</i>	

Please rate your performance in the following areas:

Rating Scale: Letter grade of CGPA calculation to be provided

1	Oral communication	✓	2	3	4	5
2	Written communication	✓	2	3	4	5
3	Proactiveness	✓	2	3	4	5
4	Interaction ability with community	✓	2	3	4	5
5	Positive Attitude	✓	2	3	4	5
6	Self-confidence	✓	2	3	4	5
7	Ability to learn	✓	2	3	4	5
8	Work Plan and organization	✓	2	3	4	5
9	Professionalism	✓	2	3	4	5
10	Creativity	✓	2	3	4	5
11	Quality of work done	✓	2	3	4	5
12	Time Management	✓	2	3	4	5
13	Understanding the Community	✓	2	3	4	5
14	Achievement of Desired Outcomes	✓	2	3	4	5
15	OVERALL PERFORMANCE	✓	2	3	4	5

Date:

*B. Jayasree*  
Signature of the Student

*Evaluation by the Supervisor of the Intern Organization*

Student Name: B. Jayasree

Registration No: 20358049007

Term of Internship: From: 01-10-2022 To: 03-11-2022

Date of Evaluation:

Organization Name & Address: NDBL Cotton Ginning & Pressing Industries  
LTD. Madhe, Adoni.

Name & Address of the Supervisor  
with Mobile Number

Please rate the student's performance in the following areas:

Please note that your evaluation shall be done independent of the Student's self-evaluation

Rating Scale: 1 is lowest and 5 is highest rank

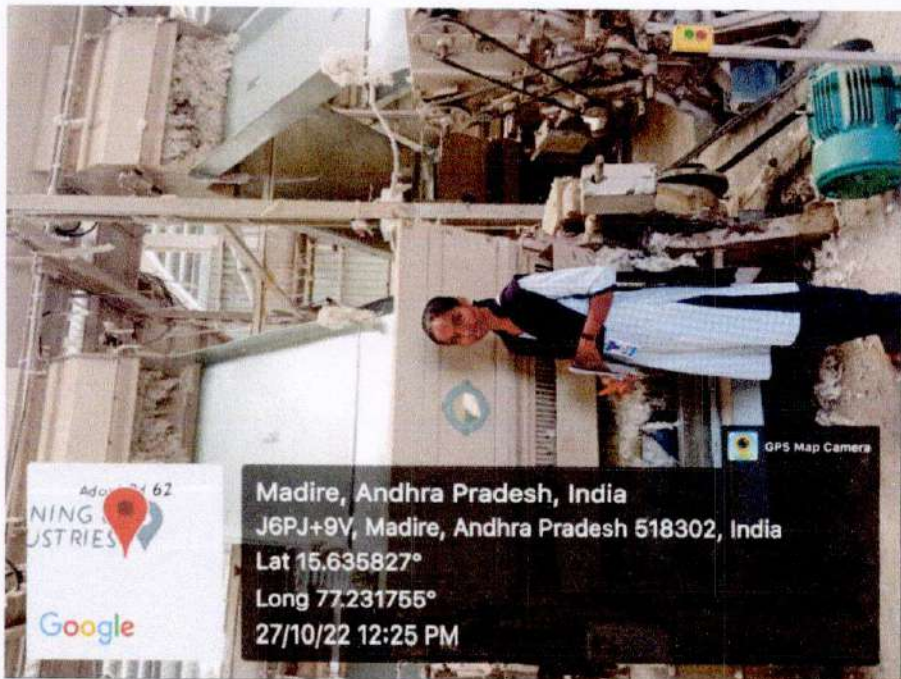
1	Oral communication	1 ✓	2	3	4	5
2	Written communication	1	2 ✓	3	4	5
3	Proactiveness	1 ✓	2	3	4	5
4	Interaction ability with community	1 ✓	2	3	4	5
5	Positive Attitude	1 ✓	2	3	4	5
6	Self-confidence	1 ✓	2	3	4	5
7	Ability to learn	1 ✓	2	3	4	5
8	Work Plan and organization	1 ✓	2	3	4	5
9	Professionalism	1 ✓	2	3	4	5
10	Creativity	1 ✓	2	3	4	5
11	Quality of work done	1	2 ✓	3	4	5
12	Time Management	1 ✓	2	3	4	5
13	Understanding the Community	1	2 ✓	3	4	5
14	Achievement of Desired Outcomes	1 ✓	2	3	4	5
15	OVERALL PERFORMANCE	1 ✓	2	3	4	5

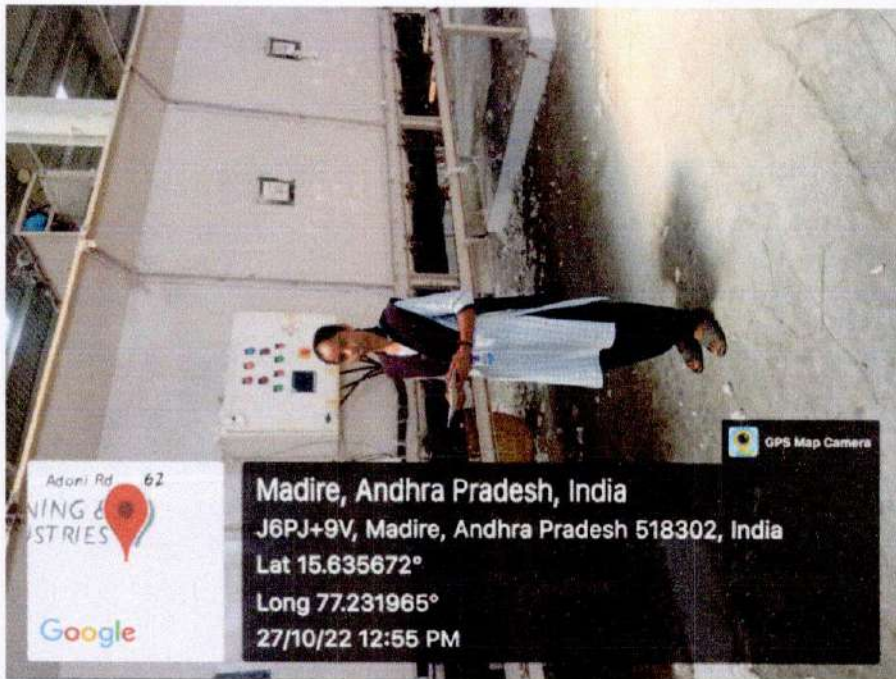
Date:

Signature of the Supervisor

Photo

Gallery





## CONCLUSION:

After the cotton is ginned, a sample is taken from each bale and sent away to classing rooms to have it graded for its quality. The cotton fibre is sorted into differeng quality-based grades (or classes). The higher the class, the better the quality of the cotton fibre, and the higher the price that will be paid. We gained more knowledge after doing intership on this cotton industry.

verified

[Signature]

## INTERNAL ASSESSMENT STATEMENT

Name Of the Student: B. Jayasree  
Programme of Study: B.Sc. BZC SHORT TERM INTERNSHIP.  
Year of Study: 2022.  
Group: BZC.  
Register No/H.T. No: 20358049007  
Name of the College: SML Govt. Degree College  
University: Yemmiganur

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	22
2.	Internship Evaluation	50	50
3.	Oral Presentation	25	24
	GRAND TOTAL	100	96


Date:

  
Signature of the Faculty Guide

Certified by

Date:

Seal:

  
Signature of the Head of the Department/Principal  
HOD  
Department of Botany  
SML Govt. Degree College  
YEMMIGANUR, Kurnool (Dt.)



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2nd, 3rd, 4th and 5th floors, Neeladri Towers, Sri Ram Nagar, 6th Battalion Road  
Atmakur (V)Mangalagiri (M), Guntur, Andhra Pradesh, Pin - 522 503  
[www.apsche.ap.gov.in](http://www.apsche.ap.gov.in)