

Model Program Book



SHORT-TERM INTERNSHIP (On-Site/Virtual)

Designed & Developed by



**ANDHRA PRADESH
STATE COUNCIL OF HIGHER EDUCATION**

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)



An Internship Report on
Enhancing cool storage efficiency and
sustainability in Agriculture
(Title of the Internship)

Submitted in accordance with the requirement for the degree of
IIIrd B.A H.E.P

Under the Faculty Guideship of
J. Nageswara Reddy
(Name of the Faculty Guide)

Department of
History
(Name of the College)

Submitted by:
S. Naxmada
(Name of the Student)

Reg.No: 21110041017

Department of
History
(Name of the College)

SVB Govt Degree college
Kodikuntla : 518134

Page No:

Student's Declaration

I, S. Naxmada a student of intexship
Program, Reg. No. 21110041017 of the Department of History B.A S.V.B Govt
College do hereby declare that I have completed the mandatory internship degree
from 7-08-2023 to 06-10-2023 in Edula Siva Reddy (Name of cold storage
the intern organization) under the Faculty Guideship of
Nageswar Reddy (Name of the Faculty Guide), Department of
S. History, S.V.B Govt Degree college
(Name of the College) Koilakuntla

S. Naxmada
(Signature and Date)

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Official Certification

This is to certify that S. Naxmada (Name of the student) Reg. No. 2110041001 has completed his/her Internship in IIIrd B.A. (H.E.P) (Name of the Intern Organization) on Educal Siva Reddy and Siva Reddy (Title of the Internship) under my Enhancing Cold Storage Efficiency Sustainably in Agriculture supervision as a part of partial fulfillment of the requirement for the Degree of IIIrd B.A. (H.E.P) in the Department of HISTORY S.V.B Govt degree (Name of the College).

This is accepted for evaluation.

(Signatory with Date and Seal)

Endorsements

Faculty Guide

I Nageshwar Reddy

Head of the Department

HISTORY

Principal

N. Ram Sub. N
PRINCIPAL 6/11/23

S.V.B. GOVT DEGREE COLLEGE
(KOILKUNTALA, NANDYAL (Dt.)

Certificate from Intern Organization

This is to certify that short term (Name of the intern)
Reg. No. _____ of S.V.B Govt degree (Name of the
College) underwent internship in Edure Siva Reddy (Name of the
Intern Organization) from Kolukuntla to Kolukuntla

The overall performance of the intern during his/her internship is found to be
Edure Siva Reddy (Satisfactory/Not Satisfactory).

Authorized Signatory with Date and Seal

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Acknowledgements

Edula Siva Reddy Cold Storage

The internship Andhra Pradesh in Edula Siva Reddy cold storage in location Koilkuntla Red chillies and moong dal and chana, whole moong, split moong moong dal arrange Acknowledgements height of building for a daily cooking in storage Typically, chilly cold storage Room list of 6 floors ground floor (1.2ft) : +5 floors (9ft Each) in Export loading in the chilly storage k storage in rift and chillies Export Andhra Pradesh Dry chillies local Kurnool market in Andhra Pradesh and dry chillies Red market Guntau in Andhra Pradesh quinta, INR

market	District	Price
Hindupuram	Anathpur	quinta 15,000.00
Kurnool	Kurnool	quinta 11,899.00
Guntau	Guntau	quinta 19,700.00

ed chilli exported to Guntur mar



Dry chillies



CHAPTER 1: EXECUTIVE SUMMARY

The internship report shall have only a one-page 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.

Introduction :- cold storage

industry is a very important and efficient industry. The temperature is maintained with the help of precision instruments. cold storage is used to preserve fruits, vegetables and all stock. Once they are kept in the cold storage, they do not get spoiled even after many months.

The development of cold storages in the country has an important role. The marketing of cold storage follows the local existing distribution network i.e.

The internship report shall have only a cold storage objectives and outcomes organization.

Ammonia for chilly cold storage

Generally chilly cold storage are above 5000 MT capacity, in this range ammonia refrigerant is more economical than Freon. For this large size storage customers, consultants, as well as installers have a deep and long experience in working with Ammonia Blue cold, has supplied and continues to supply many chilly cold storage in the various small markets of Andhra Pradesh and North Karnataka.

Cooling capacity or heat load in TR Required for a 2,500 MT

Chamber :- Approximate cooling capacity required for a 2,500 MT chilly storage chamber is 30 TR at 8°C storage Temperature. Accordingly for more chambers, the total number of chambers. For example for 5,000 MT capacity the cooling required,

CHAPTER 2: OVERVIEW OF THE ORGANIZATION

Suggestive contents

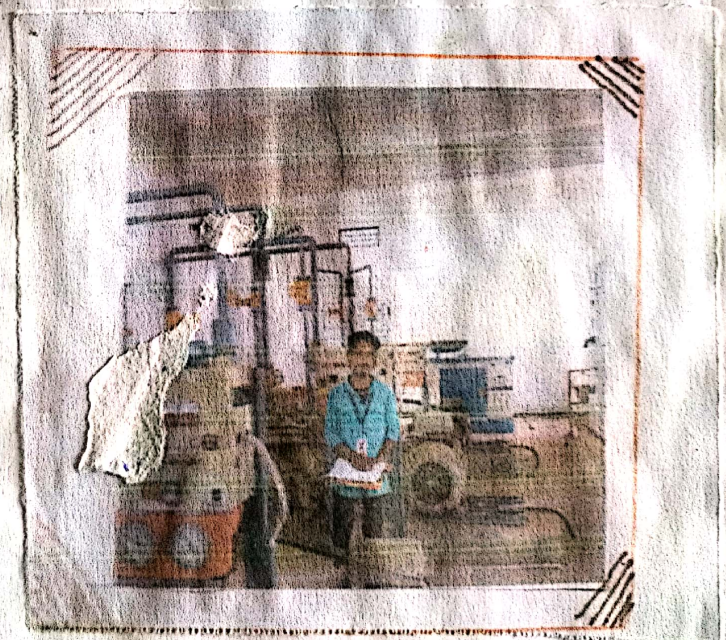
- A. Introduction of the Organization
- B. Vision, Mission, and Values of the Organization
- C. Policy of the Organization, in relation to the intern role
- D. Organizational Structure
- E. Roles and responsibilities of the employees in which the intern is placed.
- F. Performance of the Organization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

Storage in India

The first problem is that there aren't enough cold storages. The government is offering some subsidies to fix this up, but it is still further capital intensive. There are also very different business models at play.

There is a need for godowns.

This need is towards storing grains and selling it at a better price once the harvest season is over. The price for example climbs as high as 3-4 times off season and is very easy to store most farmers don't do it, because they don't have space to store it.



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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.

cold storage - Down throw Prod
uct cooler since we have fans for fans
for high tube test pressure to pressure
leak protocol Down ground air flow pattern
for equal distribution of air chick peas,
splitmung, moong dal, split green gram mo
ong dal chillies those dal, chana whole mo
ong total item proper cooling Extend the
shelf life.

Storage temperature, 5,000 MT cold
d 8°C stored temperature 2,500 MT chilli
storage (30TR).

The Internship Andhra Pradesh
in Edula Siva Reddy cold storage in locati
on in Isilkuntla, Red chillies and Toor dal and
chana, whole moong, split moong, moong dal
storage Acknowledgements height of building
for a chilli cooling in room storage.

Weight loss of Dry chilli and
Recommendation to Reduce the weight

Chilli is stored before, with proper
drying from 65 - 85% RH to below 10% RH

Here after only it can be stored be
stored as per the storage condition

Weight loss is caused due to :-

Improper storage is not mai



ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	First day Educa siva Reddy cold storage (koilkuntla)	cold storage Down throl Product cooling	
Day - 2	Stock saving sto rage in Educa siva Reddy cold storage	Product stoc ked in 3 yea rs EP4 years	
Day - 3	sth the floor Fans high Effici ency.	3x5 = 15 Fans	
Day - 4	Different stock Flo or dal and cham Whole moong chillies	stack is Tot ally stock Pro duct cooling	
Day - 5	storage temperatu re	+10°C tempera ture	
Day - 6	cold storage Pac king left Price in Indore.	Use full load ing diff-	

WEEKLY REPORT

WEEK - 1 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

- * However if cold storage facilities are used, the product may be stored for 4-3 years
- * cold storage - down throw product cooler
- * $3 \times 5 = 15$ Fans
- * sin wave fins for fans for high EP
- * tube test pressure to ensure leak proof
- * down ward air flow pattern for equal dis
- * chick peas, splitmung, moongdal, split green gram moong dal total item proper cooling and the shelf life.
- * storage temperature 2,500 MT cold
- * 8°C stored temperature 2,500 MT chilli storage (3.0TR)
- * cold storage loading lifts inside with in 5Fl
- * cold storage in a tomaxind, sorghum.

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ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Water supply room cooling mechanism Important mechanism sim 4 stage	Water Discharge Pressure kpca :- 10 to 15	
Day - 2	Suction Pressure 14-2	Ammonia Val 160 kg	
Day - 3	Oil Pressure 16-4	A, B Supply Ammonia Val	
Day - 4	Dispersant liquid change cooling To liquid outdoor	Total 5 room total +10°C Temperature cooling	
Day - 5	Enriching lives 70° (ATRP)	Ammonia - chima cooling liquid change	
Day - 6	Ammonia (sim 4 stage) running supply Suction Pressure changes	Hours day 7740 (24 hours)	

WEEKLY REPORT

WEEK - 2 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

Water Supply :- 6 Feet cellulose + pad water cooling system with cold storage system defrosting dispersement cellulose once entire passage refrigerate.

- * a cooling system utilizing natural energy from diurnal ambient air temperature difference
- * water is cooled at night by cellulose pad cooling power and stored for cooling application at day time.
- * overall COP can reach 1.4 for room temperature higher than 40°C
- * Feasible for data center cooling.

The present study develops a cooling system using water as the working medium which is cooled at night by cellulose-pad cooling tower (CLWT) and stored for cooling application at day time. That is it utilizes the Natural Energy

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ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	storage (Boxes) that on Explane	Total Boxes $3 \times 5 = 15$	
Day - 2	White stock chick Peas, split moong 'moong dal, split green	Total item Proper cooling Extend the shelf life	
Day - 3	Temperature is storage	$\begin{cases} > 100^\circ \text{ Dried} \\ > 3\frac{1}{2} \text{ Level} \\ > 01/-6^\circ \text{ TdL} \end{cases}$	
Day - 4	china change	15.1 and 16.2 Temperature	
Day - 5	motor proper and high speed	Room cooling	
Day - 6	gas leaked change that cooling Reacte.	storage and cooling	

WEEKLY REPORT

WEEK - 3 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

A cooling system was built and tested it is found that the coefficient of performance of [CWC] for heat dissipation of water at night, COP_{nt} , is between 3.8 and 11 and varies linearly with the Evaporation

Temperature glide ΔT (Difference between cold water temperature in the storage tank and wet bulb temperature of ambient air)

The COP for room cooling at day time run with air cooler in a room, COP_{day} , is between 8.8 and 12.6 for day cycle operation, the measured overall cooling COP is 5.1 COP is expected for each 2.4 at room temperature $45^{\circ}C$.

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ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	A cold - storage facility works as a refrigeration	maintain inadequate pasture environment	
Day -2	cellulose Pad cooling which is cooled at night by cellulose Pad	(CWCT)	
Day -3	Tuxmexic for example climbs as high as 3-4 times	stock 3-4 years	
Day -4	This item, when needed, can be taken from the cold storage	store item stock	
Day -5	cold storage is used to preserve	storage item stock	
Day -6	Business Part	Business Report	

WEEKLY REPORT

WEEK - 4 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

* overall COP can reach 9.4 for room temperature higher than 40°C

* Feasible for data center cooling

The present study develops a cooling system using water as the working medium which is cooled at night day by cellulosepad cooling tower (CWCT) and stored for cooling application at daytime. That is, it utilizes the natural energy drawn from diurnal ambient air temperature differences. A cooling system was built and tested. It is found that the coefficient of performance of [CWCT] for heat dissipation of water at night, COP_{nt} , is between 3.8 and 11 and varies linearly with the Evaporation.

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ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Blowers :- The cooled air is speed across	Room all cooling	
Day - 2	The compressor consumes almost all the power in	compressor only device	
Day - 3	heat dissipation at water at night & went	3.8 and 9.1 m/s with the Evaporation	
Day - 4	Feasible for data center cooling	Overall COP can reach 9.4 for room temperature	
Day - 5	Temperature differences $+10^{\circ}\text{C}$	cooling system	
Day - 6	liquefied 45°Ran	oil ground Val one in the start	

Objective of the Activity Done:

Detailed Report:

construction EP Working of a cold storage Plant :-

A cold storage facility works on a refrigeration system which helps maintain an adequate temperature and Environment as per the specifications of Each item being stored. These are the main components of a cold storage room

* compressor : It is the main component that runs the cold room. It is the only device that needs the Energy to run. The compressor consumes almost all the power in a cold room

* condenser :- It is required to remove the heat from the refrigerant and the circulating water.

* Blowers :- The cooled air is spread across the room through the convection Process.

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.)

Environmental careers :-

As part of research associated with Education for sustainable ability at RMIT University, sent an invitation to Environment Professional seeking information about their backgrounds work.

The invitations to participate in the survey were distributed using the Electronic data bases and networks of organizations such as the centre for sustainability, leadership and the Environment jobs net work. Environmental Education and training Ecological sustainability manager Project lead, Education (Delivering resources at colleges.)

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

Technological skills :-

- * Develop and maintain local Networks in ways that optimize Performance
- * Provide orientation and guidance to users on how to operate new software and computer Equipment.
- * check computer hardware (HDD, mouses, key boards etc). to ensure functionality.
- * Install and configure appropriate software and Functions according to specifications.

Information technology (IT) :-

is the use of computers to create, process, store, retrieve, and Exchange all kinds of data and Information.

* (ICT) information communication system technologies.

* Technical skills in Future use full in Communication development acquired student.

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.

Describe the managerial:

- * Red chillies cold storage private limited supporting and Edua siva Reddy auxiliary transport activities, activities of travel agency
- * storage in that 3 or 5 years stock 300kilose bading 450 Suppes in stock is Edua siva Reddy cold storage.
- * building = 180 inches
length = 120
width = 120
- * workers (2) and one a/c operate
One Packing Place four numbers in that Edua siva Reddy cold storage
Ex: For max cold storage stock use full 3 or 4 years stock in chillie one person Ram 2a Nageswaraw 300 and 500 Bastaru store
- * Department A/c operate name biopalvaam

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.,)

Approximately one of land is required for a 500 MT cold storage for chilly. This land required is sufficient for cold storage machine room condenser tank and condenser power house transformers, and also 20 feet free space in all direction for fire safety guidelines cold storage Technology.

Due to the changes in the surrounding cold storage in most required Refrigerated are very costly but several manufactures opt to out source for cold storage As the demand for transportation of refrigeration goods is increased, it can push the demand for value added services such as consolidation. The five most important factors for considering proper selection of the indoor unit for chilly cold storage are (a) Room temperature (b) cooling capacity (c) Air flow and Air

Student Self Evaluation of the Short-Term Internship

Student Name:	S. Narmada	Registration No:	
Term of Internship:	From: 7-08-2023	To: 6-10-2023	
Date of Evaluation:			
Organization Name & Address:			

Please rate your performance in the following areas:

Rating Scale: Letter grade of CGPA calculation to be provided

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: 21-09-2023

S. Narmada.
Signature of the Student

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Evaluation by the Supervisor of the Intern Organization

Student Name:	S. Naxmada	Registration No:	
Term of Internship:	From: 7-08-2023	To: 6-10-2023	
Date of Evaluation:			
Organization Name & Address:	Edula siva Reddy cold storage		
Name & Address of the Supervisor with Mobile Number			

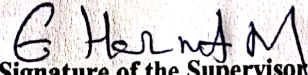
Please rate the student's performance in the following areas:

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

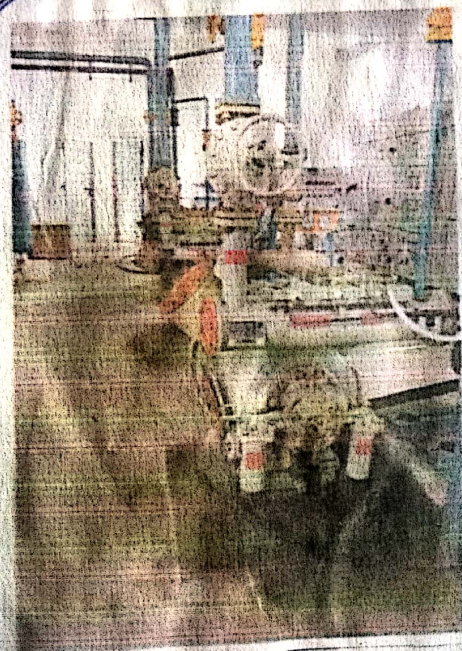
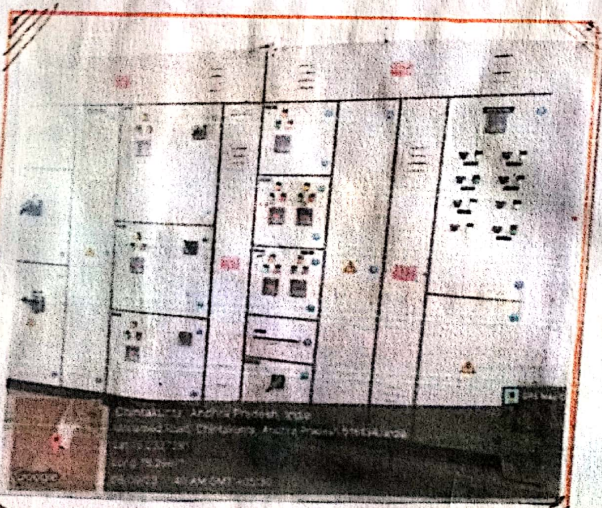
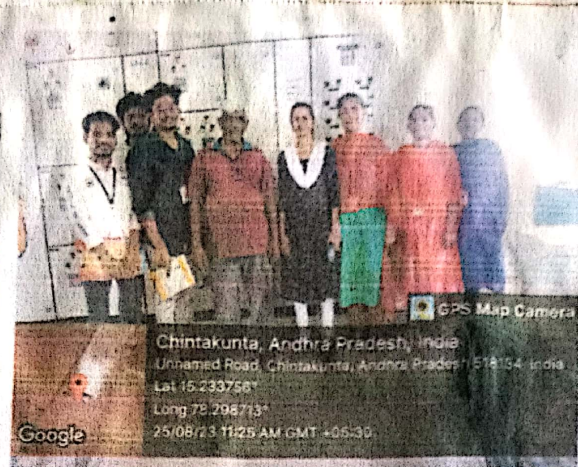
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For : EDULA SIVA REDDY COLD STORAGE

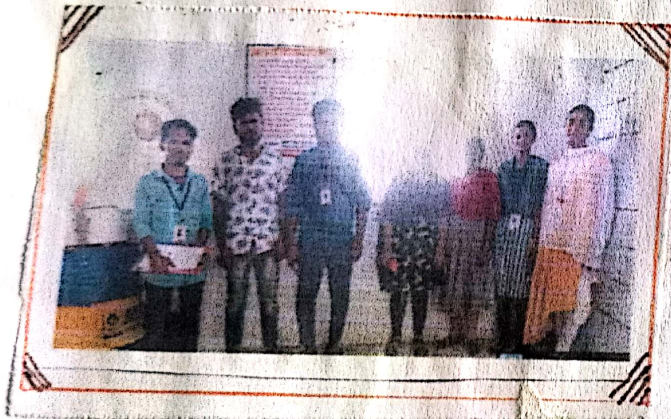
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PHOTOS & VIDEO LINKS



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Air movement :-

In cold storage it is very important to provide good air circulation between the boxes and around the product adequate air distribution system is required to maintain a uniform temperature.

Stacking and material handling

Stacking is one of the important-

Factors

INTERNAL ASSESSMENT STATEMENT

Name Of the Student:

Programme of Study:

Year of Study:

Group:

Register No/H.T. No:

Name of the College:

University:

SLNo	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	19
2.	Internship Evaluation	50	42
3.	Oral Presentation	25	15
	GRAND TOTAL	100	76

Date:

Signature of the Faculty Guide

Certified by

Date:

Seal:

Signature of the Head of the Department/Principal
PRINCIPAL 6/11/23
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KOILKUNTALA, NANDYAL (Dt.)

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