



Peoples Empowerment Group

# ISB&M School of Technology

(Approved by AICTE No.: West/1-4351941/2010/New Affiliated to SPPU (ID No. PU/PN/ENG/401 (2010))  
Recognised by Maharashtra State Government 2010 / (165/2010) TANSHE - 4

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## Policy: Promotion of research and prevention of Misconduct including Plagiarism @ ISBMSOT

**Objective:** The basic objective of this policy is to promote research and research publication and prevent Plagiarism in R&D.

### ➤ Introduction:

Plagiarism and Ethics are the two most important components in research and publication area. Teaching and research is a novel profession based on extremely high moral values. It is often observed that some of the teachers, students, research scholars and researchers knowingly or unknowing publish or present other's work as their own. Such acts affect healthy academic atmosphere in the institute which will also harm the reputation of the institute as well as the individual.

Assessment of academic research work done by a student or a faculty or a researcher may be in form of the assignments, term work, term papers, project reports, coursework, thesis and UG/PG Dissertation leading to the award of degrees, research papers, research proposals chapters in books, full-fledged books and any other work including computer programs shall go through the process of Plagiarism.

The key responsibility of an individual is to distinguish original content from plagiarized work. The detection of the Plagiarism is a judgement to be made by a person who understands the subject and who is also aware of the definition of Plagiarism. Such person should also be aware of the tools available to detect the Plagiarism. The main objective of Plagiarism detection is to ensure confidence in assessment system based on the projects as well as on research works.

### ➤ Plagiarism:

Plagiarism is defined as presenting another person's work as one's own work. Presentation includes copying and reproducing it without the knowledge of the source.

Plagiarism involves copying of data, words, statements, figures, equations, ideas, clauses, concepts, sentences, paragraphs or longer extracts from published or unpublished work (including from the internet) that exceeds the boundaries of the legitimate cooperation without acknowledgment of the source.

Plagiarism has varying different levels of severity, such as:

- How much of someone's work was taken: a few lines, paragraphs, pages, the full article...?
- What was copied: Results, methods, or introduction section...?
- When it comes to your work, always remember that crediting of other's work (including your advisor's or your own previous work) is a critical part of the process.

You should always place your work in the context of the advancement of the field, and acknowledge the findings of others on which you have built your research.

### ➤ TYPES OF PLAGIARISM:

Sometimes plagiarism is simple dishonesty. If you buy, borrow, or steal an essay to turn in as your own work, you are plagiarizing. If you copy word-for-word or change a word here and there while copying without enclosing the copied passage in quotation marks and identifying the author, you are also plagiarizing. But plagiarism can be more complicated in act and intent.

On behalf of the requirements, plagiarism are of following two types:

1. Negligent plagiarism
2. Dishonest plagiarism

**Negligent Plagiarism:** Academic Negligence consists of a minor unintentional lapse of ethical academic behavior. It may result from misunderstanding expectations, inadequate pre-college preparation, or inattention to differences in cultural or disciplinary citation practices. Regardless of the lack of intent, academic negligence is a serious matter that identifies a need for further education on academic honesty or the use of sources in academic writing in English. A student should not receive more than one report of academic negligence while at Colby; receiving multiple reports of academic negligence may result in a report of academic dishonesty by the Academic Integrity Coordinator.

Negligent Plagiarism means innocently or carelessly presenting another person's work as one's own without acknowledging the source. It arises from one's inadequate knowledge and competency in writing. It is also due to careless attitude resulting into non-compliance of standard verification procedures. In this type of Plagiarism the degree of copying is not substantial.

**Dishonest plagiarism:** Academic Dishonesty is a significant ethical violation rather than an oversight. It may result intent to deceive; a willful failure to read, recall or consult course rules; the deliberate failure to learn or apply standard ethical norms for academic work; or intentional carelessness. Although, "standard ethical norms" vary by discipline and culture, the key notion is the "willful failure" or "intent to deceive". In general, it is fair to expect seniors to have a greater understanding of what constitutes academic honesty than first-semester students.

*John*



Dishonest plagiarism means knowingly and deliberately presenting another person's work as one's own work without acknowledging the source. It involves intentional copying of substantial proportions of the other's work without written or unwritten permission and also without acknowledging the sources.

➤ **Other types of Ethical violations:**

- Duplicate publication/ submission of research findings; failure to inform the editor of related papers that the author has under consideration or "in press".
- Unrevealed conflicts of interest that could affect the interpretation of the findings.
- Misrepresentation of research findings- use of selective or fraudulent data to support a hypothesis or claim.

➤ **Research Ethics:**

Research Ethics is an integral part of research, statements, figures and tables reproduced in a report, presentation and/or paper require proper citation. Published work is protected by Copyright Law and Copyright permission is necessary if you are reproducing your work in another publication. Please note sooner or later ... ethical violations get exposed.

➤ **Disciplinary action:**

The plagiarism disciplinary committee (PDC) comprising of five members mentioned below will establish whether there is a plagiarism or not, if it is then what is the level and percentage. The PDC will submit the report after investigation and the recommendation on disciplinary action to be imposed preferably within a period of 15 days from the date of complaint

- Principal : Chairman
- Dean(R&D): Member Secretary
- Respective HOD: Member
- Subject Experts (2): Member

**Standard Operating procedure for Research & Publication**

❖ **SCOPE:**A Standard Operating Procedure (SOP) is a set of written instructions the document which is followed by employees in ISMB SOT. It provides information to perform a job properly, and consistently in order to achieve a quality end result in research activity

❖ **PURPOSE:**The purpose of this SOP is to describe the process of reviewing and obtaining approval for possible publication/ proposal writing.

*Jeshu*

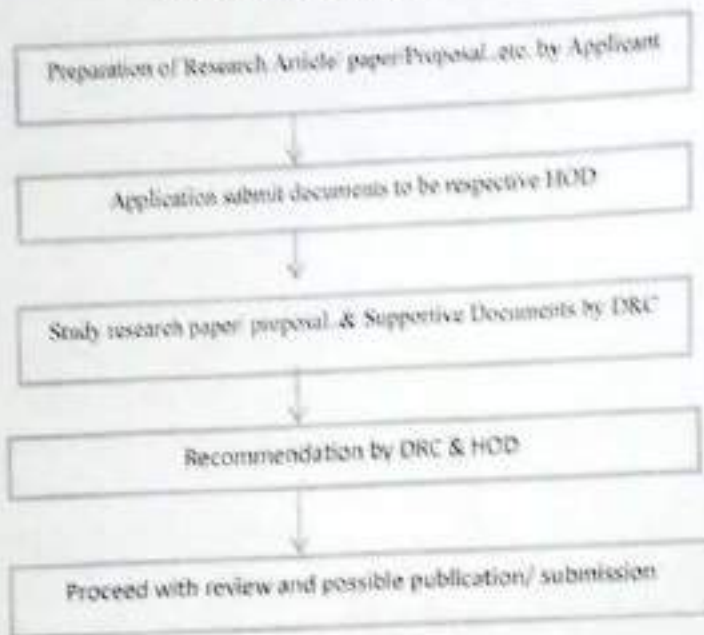
❖ RESPONSIBILITY:

- Person performing: Applicant of concerned department
- Person monitoring: Respective head of department

❖ SUPPORTING DOCUMENTS:

- Plagiarism report by Turnitin, Urkund. (Max 10%)
- NOC/Consent from coauthors
- Copy right Form (all authors)

❖ PROCEDURE FOR APPROVAL

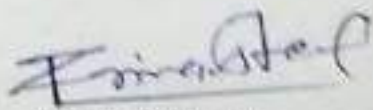


**IMPLEMENTATION:** All respective HODs are responsible for implementing this procedure.

**REFERENCES:** SPPU, UGC and AICTE Guidelines.

  
Prof. C.B. Joshi  
Dean Innovation

Approved by:

  
Dr. P.K. Srivastava  
Principal

**ISB&M School of Technology  
Nande, Pune**

Date: 18/04/2018

To  
The Principal  
ISB&M School of Technology,  
Nande, Pune.

Subject: Regarding purchase of 'Plagiarism Software'.

Respected sir,

As per requirement of the University, we must have 'Plagiarism checking Software' in the institute. The software will be useful for the students to check plagiarism in their research work like seminar, final year project, etc.

With respect to same subject we are purchasing 'Plagiarism checking Software' using below url -

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We are purchasing the business edition of the software which will be used on 5 different computers for lifetime. The cost of the software is \$147.95 (Rs. 9717/-).

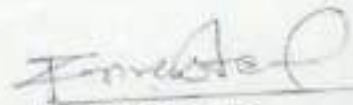
Kindly needful for the same.

Thanking you.

Yours Sincerely,



Mr. Somnath Ahiwale  
Librarian  
ISB&M SOT



Dr. P.K. Srivastava  
Principal  
ISB&M SOT



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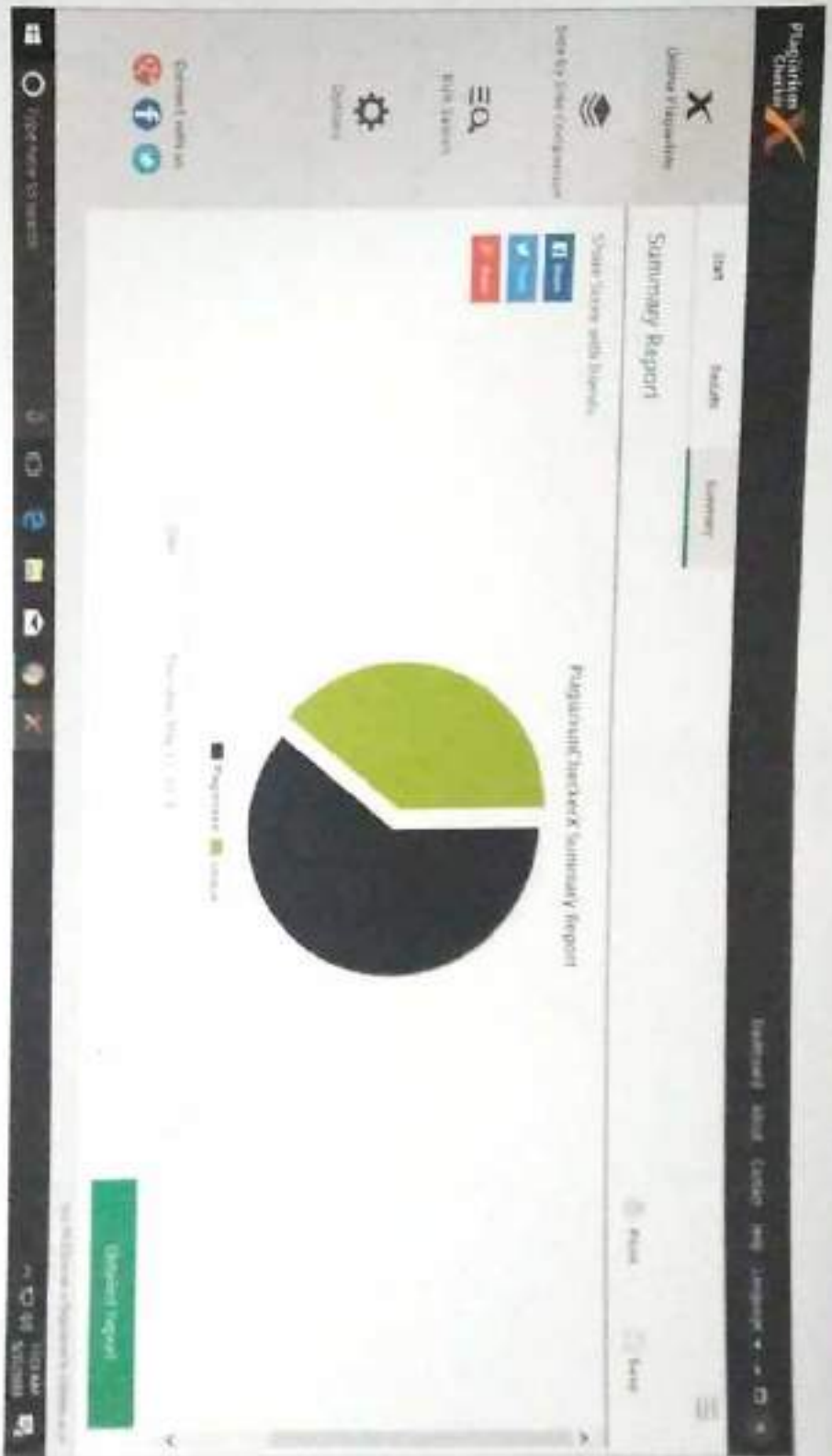
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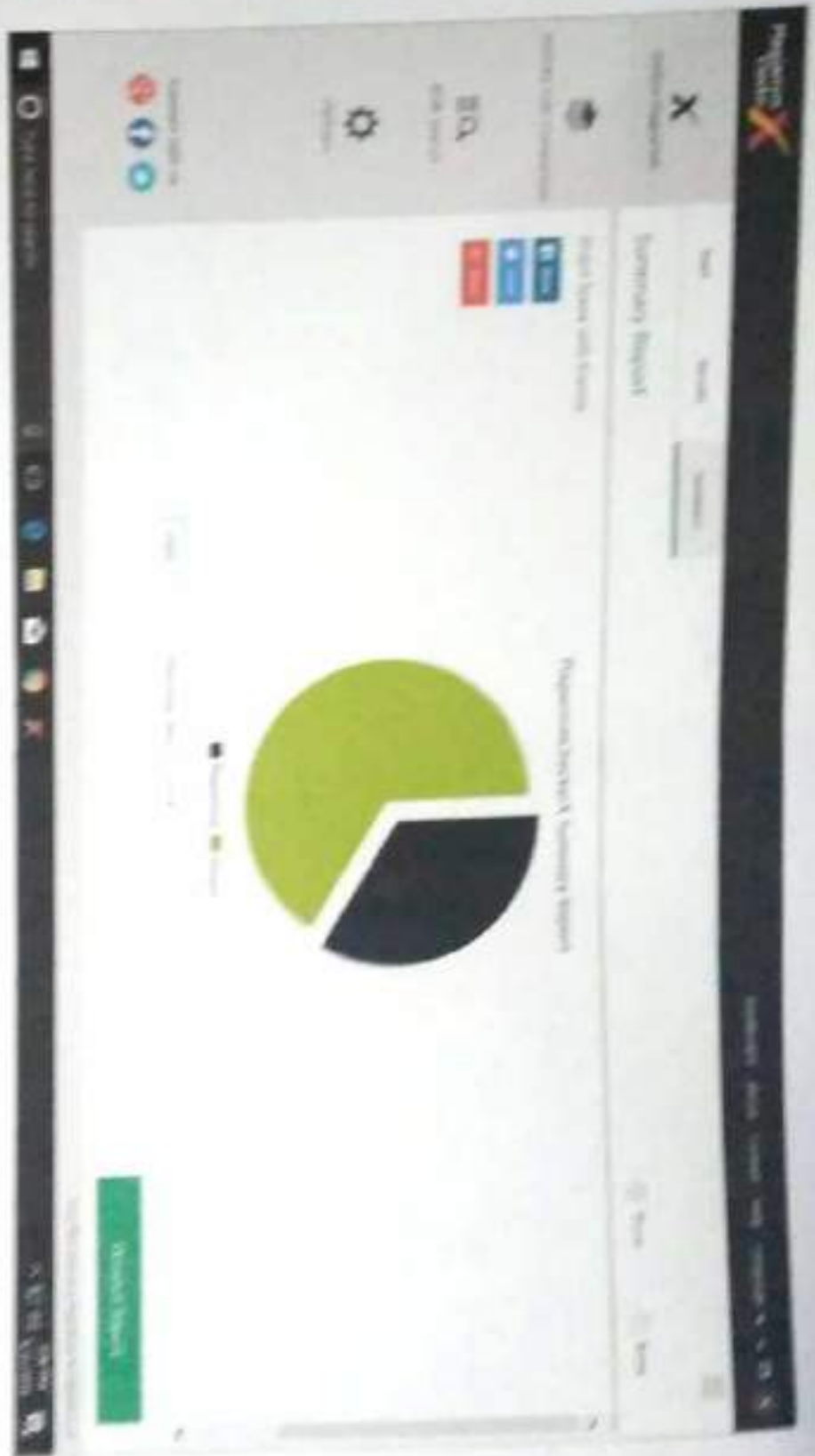
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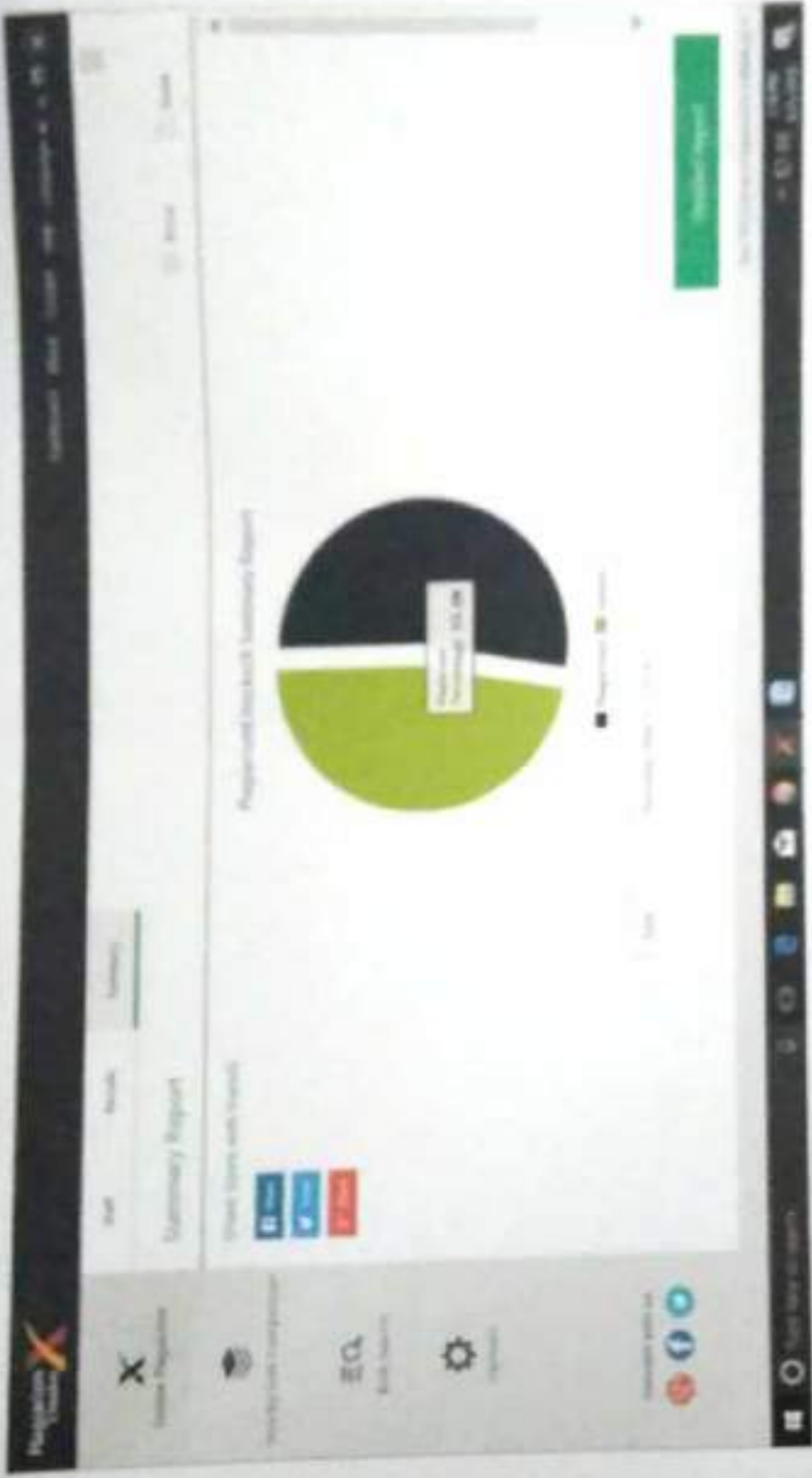
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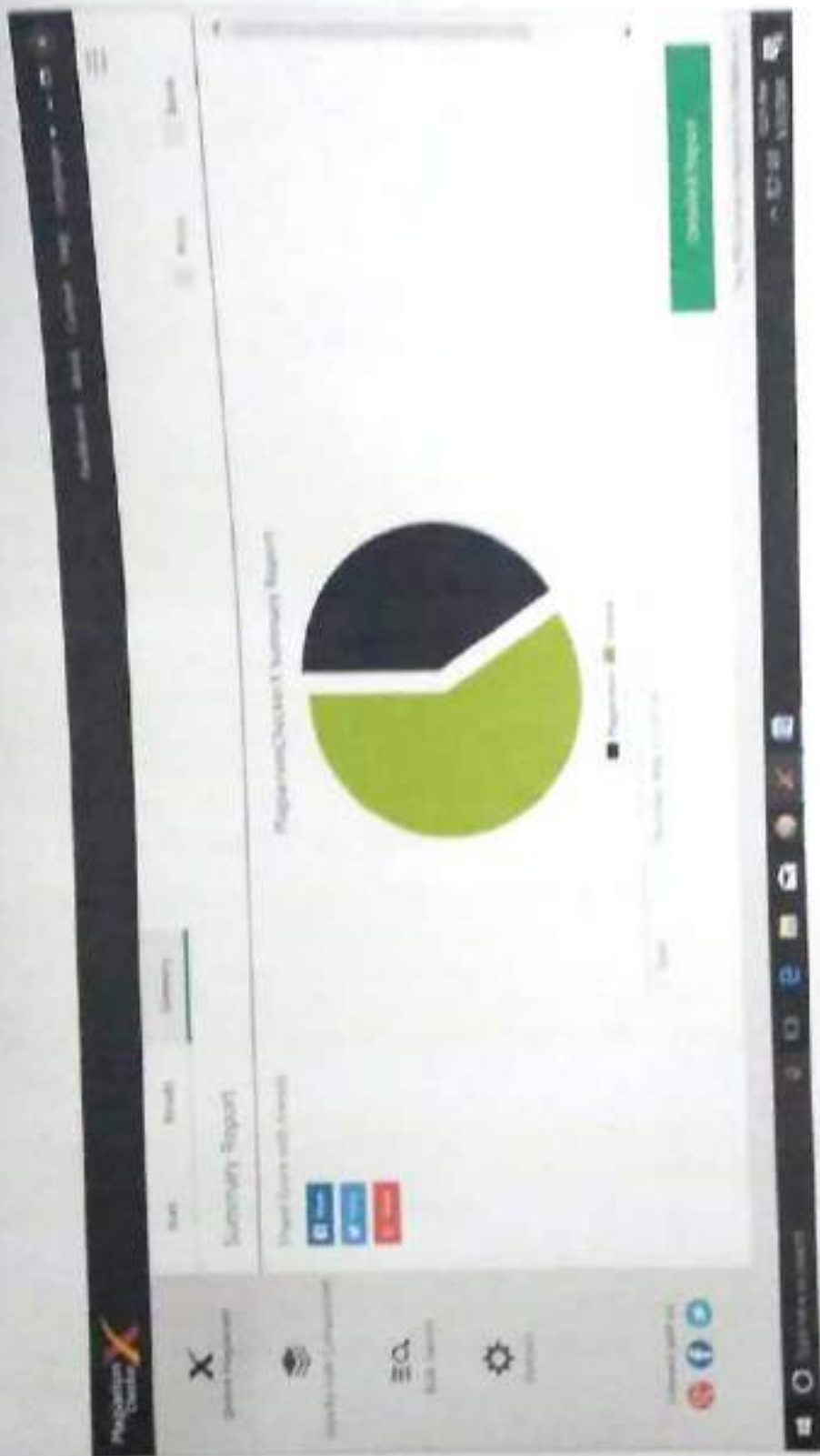
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# Plagiarism Checker X Originality Report

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Date: Friday, June 01, 2018

Statistics: 5620 words Plagiarized / 8950 Total words

Remarks: High Plagiarism Detected - Your Document needs Critical Improvement.

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Experimentation on Ice Plant Test Rig By Using R404A As Refrigerant ISB&M School Of Technology, B.E

(Mechanical) 1.1. INTRODUCTION ICE manufacture is used for producing refrigeration effect to freeze potable water in standard cans placed in rectangular tank which is filled by brine. A good definition of refrigeration is the removal of heat energy so that a space or material is colder than its surroundings. Until two centuries ago, ice was just an unfortunate side effect of winter in the early 1800s.

The ice trade, also known as the frozen water trade, centering on the east coast of the United States and Norway, involving the large-scale harvesting, transport and sale of natural ice, and later the making and sale of artificial ice, for domestic consumption and commercial purposes. Ice was cut from the surface of ponds and streams, then stored in ice houses, before being sent on by ship, barge or railroad to its final destination around the world. The main problem was occurred in the ice harvesting, legalities of streams and small lakes, transportation and storage.

An ice plant based on same principle as a simple refrigeration system. An ice plant contains various parts such as compressor, condenser, receiver, expansion valve, evaporator and refrigeration accumulator. A refrigeration is always been a great deal for human being and play a vital role in preserving food. Chemical, medicine, fisheries and providing appropriate temperature in working Entity of any industry. Refrigeration in the coming years becomes very essential deal for drastic development of the industrial sector.

In the study of an ice plant the components generally used are viz. The vapour-compression uses a circulating liquid refrigerant as the medium which absorbs and removes heat from the space to be cooled and subsequently rejects that heat elsewhere.

Circulating refrigerant enters the compressor in the thermodynamic state known as a saturated vapour and is compressed to a higher pressure, resulting in a higher temperature as well. That hot vapour is routed through a condenser where it is cooled and condensed into a liquid by flowing through a coil cool air flowing across the coil.

This is where the circulating refrigerant rejects heat from the system and the rejected heat is carried away by the air. Next routed through an expansion valve where it undergoes an abrupt reduction in pressure. That pressure reduction results in the Experimentation on Ice Plant Test Rig By Using R404A As Refrigerant ISB&M School Of Technology, B.E



(Mechanical) 2 adiabatic flash evaporation of a part of the liquid refrigerant. The auto-refrigeration effect of the adiabatic flash evaporation lowers the temperature of the liquid and vapour refrigerant mixture to where it is colder than the temperature of the enclosed space to be refrigerated. The cold mixture is then routed through the coil or tubes in the evaporator.

A fan circulates the warm air in the enclosed space across the coil or tubes carrying the cold refrigerant liquid and vapour mixture. That warm air evaporates the liquid part of the cold refrigerant mixture. At the same time, the circulating air is cooled and thus lowers the temperature of the enclosed space to the desired temperature. 1.1

PROBLEM STATEMENT:- In existing plant R12 refrigerant is used. It has higher GWP and ODP. it cause the global warming and ozone depletion. Therefore to overcome this problem, it had to eliminate CFC from the system. It replace with HFC i.e. R404A. 1.2 OBJECTIVES:- To replace the CFC refrigerant to HFC refrigerant to over come effect of GWP and ODP To carry out actual ice formation test.

To calculate the actual C.O.P of the system. To calculate the theoretical C.O.P of the cycle. To evaluate the cooling capacity in Watts & in Tons of the system. To study various components and controls used in Vapour Compression Cycle. Experimentation on Ice Plant Test Rig By Using R404A As Refrigerant ISB&M School Of Technology, B.E (Mechanical) 3 1.3

SCOPE:- There are many future options for the modifications in ice plants regarding their coefficient of performance and rate of cooling. Some are listed below:- Earlier the ice plants uses the R22 as refrigerant but now a days the use of R22 is vanishes and R134a took the place of R22 which is more eco friendly refrigerant but in future we can replace this R143a from R718 water based refrigerant or R407.

The modern ice plants are already going well but if we concentrate on their pressure ratio then it can more advantageous to us and its Co efficient of Performance will increase. In future if we work on multi stage compressor then the efficiency will surely increased and causes more rate of cooling. In future an ice plant can be installed in place of small refrigeration system for better cooling such an in railways wagons for long route transportation.

In future the ice plant can be the more preferable cooling device for the food beverages industry and fisheries industry for long term protection of good for the supply and sales. 1.4 METHODOLOGY Literature Study Identification of Problem Preparation of Demo Model Component Selection Fabrication of model Ice plant Test and Calculations Experimentation on Ice Plant Test Rig By Using R404A As Refrigerant ISB&M School Of Technology, B.E (Mechanical) 4 2.

LITERATURE REVIEW The history of an ice plant is very wide and considerable for the development of the large scale plant; initially the plant was tested for in house production of ice for homely use. Many investigations have been conducted in the research into comparison of production of ice with variation in refrigerant. Many researches were conducted in the field of ice plant for increasing their efficiency, various papers were presented and many thesis were written in the field of development of ice plant. Some of the literatures are listed in support of develop. Arora, A. a.

studied the Theoretical analysis of a vapour compression refrigeration system with R502, R404A and R507A in 2008. In this paper presented the use of water as a refrigerant in industrial chillers is an environmental friendly new technology, successfully installed over the recent years.