



VIVA-TECH INTERNATIONAL JOURNAL FOR RESEARCH AND INNOVATION

ANNUAL RESEARCH JOURNAL
ISSN(ONLINE): 2581-7280

Maintenance of Sanitary Pad Disposal Machine.

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Abstract: This research focuses on the critical maintenance of sanitary pad disposal machine for it to work effortlessly and effectively for better hygiene and environmental causes, as these sanitary pads take a long period to decompose. The following research is carried out on how the maintenance is to be done properly and cost-effectively. The equipment that will be required for maintenance is included in the total cost estimated. The objective is to dispose of menstrual waste hygienically and without causing any damage to the environment.

Keywords - critical maintenance, environmental causes, hygiene.

I. INTRODUCTION

Properly maintaining sanitary pad disposal machines is essential for keeping them hygienic and efficient. These machines offer a clean and safe method for handling menstrual waste and protecting the environment. Regular maintenance keeps the machines running smoothly, reducing breakdowns and ensuring proper waste incineration. This project will investigate maintenance procedures, identify and solve common problems, and find ways to make the machines more durable and effective. This will help create cleaner and more hygienic environments in public and private spaces.

II. PROBLEM DEFINITION

2.1 Problem Statement

The sanitary pad disposal machine in our college requires maintenance and overhauling to ensure it functions efficiently and hygienically. The machine currently faces issues like slow or inconsistent disposal, occasional blockages, and heating element malfunctions, which can lead to incomplete burning of pads. Additionally, the internal components may have wear and tear due to continuous use, and some parts may need cleaning or replacement. Regular maintenance is crucial to prevent breakdowns, ensure safety, and maintain a clean environment. Our team aims to restore its optimal performance and improve its overall durability through this maintenance process.

2.2 Objectives

1. Ensure Safe and Efficient Operation :-

- Efficiency Check.
- Safety Check.

2. Prevent Breakdown and Extend Lifespan :-

- Regular Maintenance.
- Component Overhauling.

3. Ensure Environmental Compliance :-

- Check Emission Levels.
- Efficient Waste Handling.

4. Improve Hygiene and Sanitation :-

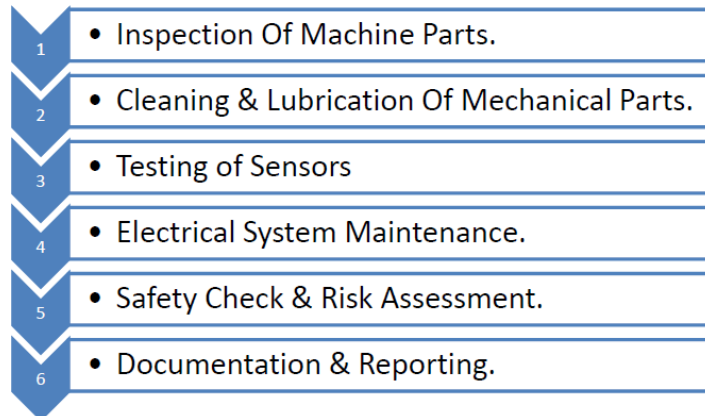
- Sanitary Check.
- Check Waste Storage.

5. Documentation and Record Keeping :-

- Maintenance Log
- Routine Inspection Schedule.

III. METHODOLOGY

3. The following are the efficient & systematic steps to maintain the sanitary pad disposal machine:



3.1 Inspection of Machine Parts:

A thorough inspection of the sanitary pad disposal machine's components is essential to ensure its optimal performance, safety, and longevity.

3.2 Cleaning & Lubrication of Mechanical Parts:

Regular cleaning and lubrication of the mechanical components of a sanitary pad disposal machine are essential to ensure its smooth operation and longer life span.

3.3 Testing of Sensors:

Since there is use of Temperature sensors, the sensor monitors the temperature inside the incineration chamber to ensure optimal burning. Hence, proper functioning of the sensors is necessary.

3.4 Electrical System Maintenance:

To ensure continuous power supply to the sanitary pad disposal machine maintenance of the electrical system is just as crucial.

3.5 Safety Check & Risk Assessments:

A thorough safety check and risk assessment are crucial to ensure the safe operation of a sanitary pad disposal machine.

3.6 Documentation & Reporting:

By implementing effective documentation and reporting practices such as maintenance logs, Inspection reports, incident reports & Compliance Reports(PUC)

Fig. 3.1 Costing

SrNo.	Material Required.	Quantity.	Price.
1.	Wire Brush	01 no's	171rs
2.	Sand Paper	02-03 no's	15rs
3.	Color	500ml	300rs
4.	Rods	04 no's	200rs
5.	Rubber Cover Ends	04 no's	249rs
6.	C- Handle	02 no's	200rs
7.	Lock	02 no's	30rs
8.	Sliding Bar/Ball Bearing	02/04 no's	275rs/480rs
9.	Heating Coil	01 no's	309rs
10.	Wire	B-1m/R-1m	40rs
11.	Display Controller	01 no's	950rs
		Total	2740rs/3220rs



3.3 Sanitary Pad Disposal Machine

IV. CONCLUSION

In this study, we have identified various ways for maintenance of sanitary pad disposal machine, which have proven to be the most optimal and cost-effective. The maintenance will increase the efficiency & longevity of the sanitary pad disposal machine. The goal is to reduce menstrual waste without harming the environment.

ACKNOWLEDGEMENTS

I would like to express my sincere gratitude to Professor Pratik Raut for his invaluable guidance and support throughout the course of this project. My heartfelt thanks to Dr. Niyati Raut, Head of Department, for her constant encouragement and insightful feedback. I am also deeply grateful to Dr. Arun Kumar, Principal, for providing the necessary resources and a conducive environment for the successful completion of this project.

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