

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belgaum – 590014

A Project Report On

“SYCHRONISED MASS IRONING SYSTEM”



Submitted in partial fulfillment of the requirements
For the award of the degree of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

By

**BASHAR H. SHAIKH
DUTTA ABHISEK
10X10ME030**

10X10ME019

**NIRMIT KUMAWAT
10X10ME060
ASHUTOSH PAREKH
10X09ME061**

Under the guidance of

Prof. C.V RAJA REDDY
Asst. Professor,
Department of Mechanical engineering



DEPARTMENT OF MECHANICAL ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BANGALORE -560 068

2013-2014

A note of thanks to the Department of Mechanical Engineering, both teaching and non-teaching staff for their co-operation extended to us. Last but not the least we would like to extend our thanks to our PARENTS and the GOD almighty for bringing us to this position.

BASHAR H.SHAIKH	1OX10ME019
DUTTA ABHISEK	1OX10ME030
NIRMIT KUMAWAT	1OX10ME060
ASHUTOSH PAREKH	1OX09ME061

CONTENTS

COVER PAGE

i

CERTIFICATE

ii

ACKNOWLEDGEMENT

iii

STUDENT'S DECLARATION

iv

1 IRONING SYSTEM

1.1 Introduction

2

1.2	History Of Ironing	3
1.2.1	Smoothers(Stones, Glass, Presses)	8
1.2.2	Mangle Boards, Box Mangles	9
1.2.3	Flat Irons, Sad Irons	11
1.2.4	Ironing In Asia	13
1.3	Raw Materials	13
1.4	The Manufacturing Process	13
1.4.1	Quality Control	16
1.4.2	Byproducts/Waste	16
1.4.3	The Future	17
1.5	Features	17
1.6	Few Different Types Of Rare Iron	18

2 CLOTHING SYSTEM

2.1	Introduction	21
2.2	Origin And History	22
2.2.1	First Recorded Use	22
2.2.2	Making Clothing	22
2.3	Functions	23
2.4	Contemporary Clothing	24
2.4.1	Spread Of Western Styles	24

2.4.2	Ethnic And Cultural Heritage	25
2.4.3	Fashion	25
2.5	Working Condition	26
2.6	Clothing Maintenance	28
2.7	Laundry, Ironing, Storage	28
2.8	Non-Iron	29
2.9	Mending	29
2.10	Recycling	29
2.11	Social Status	30

3 STEAM IRON PRESS

3.1	Introduction	33
3.2	Few Different Types Of Steam Iron	36
3.2.1	Flat Bed Press	36
3.2.2	Chest Type Ironer	36
3.2.3	Vacuum Ironing Tables	37
3.2.4	Trouser Finishing Press	38
3.2.5	Shirt Finishing Systems	38
3.2.6	Robotic Shirt Systems	39
3.3	Types Of Steam And Conversion	39
3.4	Ironing concept	41

3.4.1	Ironing Board	42
3.4.2	Commercial Equipment	42
3.4.3	Ironing Board Cover Sizes	42
3.4.4	Recommended Ironing Temperatures	43

4 SYNCHRONISED MASS IRONING SYSTEM

4.1	Concept	46
4.2	Model Design	47
4.3	Construction	48
4.3.1	Properties	49
4.3.2	Application	50
4.3.3	Maintainance	51
4.4	Working	52
4.5	Steam Generating System	53
4.5.1	Steam Generation Through Cooker	53

5 SHIRT DESIGNING

5.1	Introduction	55
5.2	Components	56
5.2.1	Collars	56
5.2.2	Cuffs	57

5.3 Other Features	58
5.4 Formal Shirts	59
5.5 Materials	60
5.5.1 Non-Iron	61
5.5.2 Shirt Wearing	61
5.5.3 Fit	62
5.6 Different Shirt Styles	63
5.6.1 Shirt Size Chart	64
5.6.2 Shirt Measurement Instructions	65

APPENDIX

A. Part drawing	67
B. Photo section	74
C. Biodata	80