Contents

Description	Page no.
Abstract	
Acknowledgement	
List of tables	
List of figures	
List of abbreviations or symbols	
Chapter 1: Introduction	1-11
1.1 Background	1-9
1.2 Problem statement	9-11
Chapter 2: Review of literature	12-28
2.1 Review	12-27
2.2 Conclusion from the literature review	27-28
Chapter 3: Aim and objectives	29 30
Chapter 4: Experimental design	30
	31-48
Chapter 5: Methods and materials	51-40
Selection of site and subjects	31
Inclusion criteria	31-32
Exclusion criteria	
5.1 General demographic study	32
5.2 Determination of Control-response stereotype	32-38
5.3 Index of Reversibility	38-39
5.4 Response initiation time	39
-	39
5.5 Studies on stereotype in relation to handedness	39-40
5.6 Studies on motion stereotype in relation to socioeconomic status	10.11
5.7 Studies on motion stereotype in relation to Stress	40-44
5.8 Study of colour stereotype	44-45
5.9 Application of population stereotype for man-machine interface	45-47
design	47-48
Statistical analysis	49-168
Chapter 6: Results and discussion	49-53
6.1 General demographic profile of the Bengali population	17 00
6.2 Motion Stereotype of Bengali population for operating some	54-72
control-display units	
6.3 Colour Stereotype Profile of the Bengali population	73-90
6.4 Impact of stress on motion stereotype:	74-109
• Influence of Cardiovascular stress on motion stereotype of male workers of a small scale pole manufacturing plant	74-98
male workers of a small scale pole manufacturing plant	
• Influence of Heat stress on the motion stereotype of bell	98-104
metal workers (male)	
• Influence of job related psychological stress on motion	

stereotype of Information technology (IT) office workers	104-109
(male)	
6.5 Impact of spatial arrangement of controls on motion stereotype	110-115
of adults	116-124
6. 6 Influence of handedness on motion stereotype	110-124
6.7 Impact of socio economic status on motion stereotype of adults	125-136
6.8 Impact of Education Level on motion stereotype	137-144
6.9 Rural-urban variation of motion stereotype	145-152
6. 10 Application of motion stereotype in interface modification and	153-168
design	
Chapter 7: Conclusion	169-173
General conclusion	
Novelty of the study	
Limitations	
Scope of the further study	174-182
Chapter 8: Summary	174-182
Chapter 9: Bibliography	183-228