STUDY OF COMPENSATORY ACCIDENTS IN SRI LANKA

Kulasekara Mudiyan selage Udeni Bandara Kulasekara

(138503L)

Dissertation submitted in partial fulfillment of the requirements for the degree of Master of Science in Occupational Safety and Health Management

Department of Building Economics

University of Moratuwa Sri Lanka

March 2016

DECLARATION

I declare that this is my own work and this dissertation does not incorporate without acknowledgement any material previously submitted for a Degree or Diploma in any other University or Institute of Higher Learning and to the best of my knowledge and belief it does not contain any material previously published or written by another person except where the acknowledgement is made in the text.

Also, I hereby grant to University of Moratuwa the non-exclusive right to reproduce and distribute my dissertation, in whole or in part in print, electronic or other medium. I retain the right to use this content in whole or part in future works (such as articles or books).

| K.M.U.B. Kulasekara | Date |
|---|---|
| The above candidate has carried out research supervision. | n for the Masters dissertation under my |
| Dr. Nayanthara De Silva | Date |
| Dissertation Supervisor | Date |

ACKNOWLEDGEMENTS

This dissertation would not have been possible without the guidance, contribution and encouragement of many faculty members, staff members of the Department of Labour and staff members of the office of the Commissioner for Workmen's Compensation.

I sincerely thank my supervisor Dr. Nayanthara De Silva for the tremendous contribution made by her to make the M.Sc. programmeand this dissertation a success.

Next, I would like to thankHead of the Department of Building Economics for the valuable support extended during the programme and all the lecturers who lectured in the M.Sc. programme for teaching, guiding and supporting during the programme.

I would like to extend my gratitude to Mrs. Pearl Weerasinghe (Former Commissioner General of Labour) for availing financial assistance from the Department of Labour and I extend my gratitude to Mrs. W.L.S. Wijesundara (Former Commissioner of Labour) for encouraging me to follow this M.Sc. programme.

Not only that but my gratitude goes to Mrs. AnushaMuthukumarane (Commissioner for Workmen'sCompensation) and her staff for the support extended to me during the data collection phase of the research.

Finally, I thank my family members, staff members and friends for the assistance extended for completion of this dissertation.

ABSTRACT

Study of Compensatory Accidents in Sri Lanka

Although figures of Occupational Accidents are published annually in many countries, reliable data is available only in a limited number of countries (Takala, 1999). Also figures of occupational accidents in most developing countries are not based on proper accident recording and notification systems and under these circumstances, underreporting of occupational accidents is a common problem in many countries (Takala, 1999).

When legal frameworks in countries are considered, it can be seen that some occupations are not covered by the law. Many researches have been done to reveal the extent of underreporting, factors that lead for underreporting and the coverage of occupations by occupational safety legislation in various countries. This study is focused to find the effectiveness of accident reporting system in Sri Lanka, to study the coverage of occupations by the current law and to propose strategies for improving the accident reporting system.

Data for the research were of both primary type and secondary type where secondary data were extracted from the records available at the office of the commissioner for workmen's compensation and primary data were obtained through expert interviews. Accidents reported to the commissioner for workmen's compensation during one year period were compared with the accidents reported to department of labour during the same period for estimating the rate of underreporting. Also, the identification of economic activities that are not covered by the current legislation with regard to occupational safety and health could be identified through the data obtained from the office of the commissioner for workmen's compensation. Proposals for enhancing accident reporting were obtained through interviewing experts in the occupational safety and health field.

Results of the research show that 27% of the compensatory accidents are from economic activities that are not covered by OSH legislation and rate of underreporting is 62.50%. These indicate that the legal framework should be changed to cover all economic activities and strategies should be implemented to enhance accident reporting.

TABLE OF CONTENTS

| Declarati | on | i |
|------------|---|---|
| Acknowl | edgementsi | i |
| Abstract. | ii | i |
| Table of | Contentiv | 7 |
| List of Fi | guresv | i |
| List of Ta | ablesvi | i |
| List of A | bbreviationsvii | i |
| List of A | ppendicesix | ζ |
| | | |
| CHAPTI | ER 01 – INTRODUCTION | L |
| 1.1. | Background | L |
| 1.2. | Research Problem | 3 |
| 1.3. | Aim and Objectives | 3 |
| 1.4. | Methodology | 1 |
| 1.5. | Scope and Limitations | 5 |
| 1.6 | Summery | 5 |
| | | |
| CHAPTI | ER 02 – LITERATURE REVIEW | 7 |
| 2.1. | Introduction | 7 |
| 2.2. | Definition of an Occupational Accident | 3 |
| 2.3. | Categorization of Occupational Accidents | 3 |
| 2.4. | Occupational Accident Rates and Trends |) |
| 2.5. | Importance of Accident Recording and Notification |) |
| 2.6. | Occupational Accident Recording and Reporting Systems | 2 |
| 2.7. | Underreporting of Occupational Accidents | 3 |

| 2.8 | 8. Factors for Underreporting | 14 |
|------|--|----|
| 2.9 | 9. Coverage of Economic Activities | 16 |
| 2.1 | 10. Accident Costs | 17 |
| 2.1 | 11. Workmen's Compensation Systems | 19 |
| 2.1 | 12. Strategies for Minimizing Underreporting | 21 |
| 2.1 | 13. Summary | 21 |
| | | |
| СНАР | TER 03 - RESEARCHMETHODOLOGY | 23 |
| 3.1 | 1. Introduction | 23 |
| 3.2 | 2. Research Design | 23 |
| 3.3 | 3. Research Process | 27 |
| | 3.3.1. Literature Review | 28 |
| | 3.3.2. Data Collection | 28 |
| | 3.3.3. Data Analysis | 33 |
| 3.4 | 4. Summary | 34 |
| | | |
| СНАР | TER 04 – DATA ANALYSIS & DISCUSSION | 35 |
| 4.1 | 1. Data Analysis | 35 |
| 4.2 | 2. Suggestions of Experts in Field of OSH | 41 |
| 4.3 | 3. Summery | 43 |
| СНАР | TER 05 – CONCLUSION & RECOMMENDATIONS | 44 |
| 5.1 | 1. Conclusion | 44 |
| 5.2 | 2. Recommendations | 46 |
| DEEE | RENCE LIST | AT |
| | NDICES | |
| | YDICEO | 33 |

LIST OF FIGURES

| Figure 1.1: | Classification of Accidents Reported to WCC | 4 |
|-------------|---|------|
| Figure 3.1: | Nested Research Methodology | .23 |
| Figure 3.2: | Types Study Design | .26 |
| Figure 3.3: | Research Process | . 27 |
| Figure 3.4: | Methods of Data Collection | . 29 |
| Figure 3.5: | Categorization of Occupational Accidents | .33 |

LIST OF TABLES

| Table 3.1: | Experts profile | .33 |
|------------|---|-----|
| Table 4.1: | Number of occupational & non-occupational accidents | .35 |
| Table 4.2: | Categorization of accidents reported to WCC by | |
| | economicactivities not covered by FO | .36 |
| Table 4.3: | Categorization of accidents in economic activities notcovered | |
| | by FO according to severity of injury | .37 |
| Table 4.4: | Accidents reported to WCC & DFIE by economic | |
| | activities covered by FO | .38 |
| Table 4.5: | Categorization of accidents which were not reported to DFIE | |
| | according to severity of injury | .40 |

LIST OF ABBREVIATIONS

BLS Bureau of Labour Statistics

DFIE District Factory Inspecting Engineer

EU European Union

F Fatal

FO Factories Ordinance No.45 0f 1942

ILO International Labour Organization

MER Medical Examination Report

OHSAS Occupational Health & Safety Assessment Series

OSH Occupational Safety & Health

OSHA Occupational Safety & Health Administration

PPD Permanent Partial Disability

PTD Permanent Total Disability

TD Temporary Disability

WCC Workmen's Compensation Commissioner

WCF Workmen's Compensation Fund

WHO World Health Organization

LIST OF APPENDICES

Appendix 1 - FormA

Appendix 2 – Medical examination report

Appendix 3 – Form B

Appendix 4 – Form Q

Appendix 5 - Form G

Appendix 6 – Questionnaire for obtaining details from injured persons

Appendix 7 – Questionnaire for expert interviews

Appendix 8 – Summarized raw data

Appendix 9 - Accident data categorized in to economic activities