CASE STUDY IN MINING INDUSTRY AND IT'S EFFECTS IN ODDUSUDAN AREA

by

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"I certify that the above statement made by the candidate is true and that thesis is suitable for submission to the university for the purpose of evaluation. "

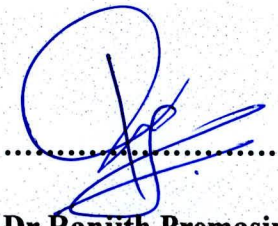

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TABLE OF CONTENT

	Page
Table of Content	i
List of tables	iv
List of figures	v
Abbreviations	vii
Acknowledgements	ix
Abstract	xi
CHAPTER 01 - INTRODUCTION.....1	
1.1 The required standards for selecting an aggregate for a project	3
1.2 Research problem	5
1.3 Significance of the study area	6
1.4 Objectives	11
CHAPTER 02 - LITERATURE REVIEW..... 12	
2.1 Introduction to the nature of mining industry	12
2.1.1. Definitions – Mining	12
2.1.2. What is an aggregate?	14
2.1.3. What is a quarry?	14
2.1.4. Quarrying history	15
2.1.5. Mining techniques	16
2.2 Advantages and disadvantages of mining industry	18
2.3 Impacts of the Mining Industry	19
2.3.1. Impacts on water resources	19
2.3.2. Impacts of mine dewatering	21
2.3.3. Impacts of mining projection air quality	22
2.3.4 Impacts of mining projects on wildlife	24
2.3.5 Impacts of mining projection soil quality	25

2.3.6 Impacts of mining projection social values 26
2.3.7. Impacts of migration 27
2.3.8 Impacts on livelihoods 28
2.3.9 Impacts on public health 29
2.3.10 Impacts to cultural and aesthetic resources 30
2. 3.11 Climate change considerations 30
2.4 Legal framework of the mining industry in Sri Lanka 32
2.5 Rehabilitation of mining sites 36
2.5.1 Introduction to rehabilitation of mining sites 36
2.5.2 Feasible rehabilitation options 38

CHAPTER 03 - METHODOLOGY..... 46

3.1 General description of the study area 46
3.1.1 Rock types and their mineral constituents 49
3.1.2 Micro- petro graphic description of representative rock Specimens 53
3.1.3 Physical features 53
3.2 Sampling 54
3.3 Data and data collection 55
3.4 Data analysis procedure 56
3.4.1 Nature of complain 56
3.4.2 Data collection and preparation 60
3.4.2.1 The geo database 60
3.4.2.2 Feature data sets 61
3.4.2.3 Contours 62
3.4.2.4 Google Earth 62
3.4.2.4 Flow direction 63
3.4.2.5 Flow accumulation 63
3.4.2.6 Snap the pour points 64
3.4.2.7 Watershed 64

3.5 Methodology 65

3.5.1 Methodology for objective 1 65

3.5.2 Methodology for objective 2 66

3.5.3 Methodology for objective 3 67

CHAPTER 04 - RESULTS..... 68

4.1 Analysis of objective 1 68

4.2 Analysis of objective 2 80

4.3 Analysis of objective 3 82

CHAPTER 05 - CONCLUSION AND RECOMMENDATION..... 85

5.1 Conclusion 85

5.2 Recommendation 87

REFERENCE.....89

ANNETURE..... 91

LIST OF TABLES

Table No	Caption	Page
Table 1.1	Companies operating quarries and crushers in the area	5
Table 1.2	The distribution of the mining industry in Sri Lanka.	9
Table 3.1	GPS Coordinates of quarry site.	47
Table 3.2	Approximate percentages of rock types.	50
Table 3.3	Fracture systems.	53
Table 3.4	Problems associated with dust and preventive measures.	56
Table 3.5	Latest test blasting figures for noise measurements.	57
Table 3.6	Latest test blasting figures for vibrations.	58
Table 3.7	Nature of damages.	59
Table 3.8	Collected data layers, scales and sources.	60

LIST OF FIGURES

Table No	Caption	Page
Figure 1.1	All DSD's and highlighting Oddusudan and nearby GND's	2
Figure 1.2	Geological map around the proposed quarry site at Oddusudan in Mullaitivu district	6
Figure 1.3	Image of LTTE abandoned quarry from the area	7
Figure 1.4	Quarry distributions in Sri Lanka	10
Figure 1.5	Quarry site distribution map of Sri Lanka	10
Figure 2.1	Underground long wall mining	16
Figure 2.2	Coal Sales surface mine near Chavies	17
Figure 2.3	Mantrap used for transporting miners within an Underground mine	17
Figure 2.4	Benefit-sharing channels	18
Figure 2.5	Feasibility of rehabilitation options	45
Figure 3.1	Location of the study area	46
Figure 3.2	Initial sketch map of BPP quarry site area: (Source: BPP ,IEE, 2009)	48
Figure 3.3	Present view of BBP quarry site of the Q6 to Q7	49
Figure 3.4	Approximate percentages of rock types	50
Figure 3.5	Data analysis procedure for noise	57
Figure 3.6	Data analysis procedure for vibration	57
Figure 3.9	Methodological process – Objective 1	65
Figure 3.10	Methodological process – Objective 2	66
Figure 3.11	Metrological process for rehabilitation	67
Figure 4.1	Location plot with use of Google earth	68
Figure 4.2	Conversion of layers with different data	69
Figure 4.3	Study area against the complains	70
Figure 4.4	Buffer insertion for 600 meters	71
Figure 4.5	600 meter buffer exported to Google earth	72
Figure 4.6	Buffer insertions for 1000 meters	73

Figure 4.7	1000 m buffer exported to Google earth	74
Figure 4.8	Multiple buffer the nature of complains	75
Figure 4.9	The outlook of the case study area against the Complains	76
Figure 4.10	Hot spot analysis of the high risk area	77
Figure 4.11	Layout of the hot spot analysis	78
Figure 4.12	Layout of the multiple buffer zone	79
Figure 4.13	Annual population of Mullativu district	80
Figure 4.14	GND wise resettled population in Oddusudan as Per 31.12.2013	80
Figure 4.15	Population resettlement of Oddusudan DSD	81
Figure 4.16	Tin to raster map indicating the quarry	82
Figure 4.17	Flow direction map	82
Figure 4.18	Map of flow accumulation in pour point	83
Figure 4.19	Map of Stream order	83
Figure 4.20	Stream order direction of the area	84

ABBREVATIONS

ACV	: Aggregate Crushing Value
AIV	: Aggregate Impact Value
AML	: Artisanal Mining License
ANFO	: Ammonium Nitrate/Fuel Oil
BBS	: Bulletin Board Systems
BPP	: Business Promoters and Partners (Pvt) Ltd.
CIA	: Central Intelligence Agency
DEM	: Digital Elevation Model
DS	: Divisional Secretariat
DSD	: Divisional Secretariat Division
ED	: Electric Detonators
IEE	: Initial Environmental Examination
IEER	: Initial Environmental Examination Report
EIA	: Environmental Impact Assessment
EVR	: Economic Viable Report
FI	: Flakiness Index
GA	: Government Agent
GIS	: Geographical Information Systems
GND	: Grama Niladhari Division
GPS	: Global Processing System
GSMB	: Geographical Survey and Mines Bureau
Ibid	: ibidem (in the same place)
IML	: Industrial Mining License
ISO	: International Standard Organization
KML	: Keyhole Markup Language
LTTE	: Liberation Tigers of Tamil Eelam
LAAV	: Los Angeles Abrasion Value
MLT	: Mullativu
MOD	: Ministry of Defense
RDA	: Road Development Authority

RML	: Reserved Minerals License
SL	: Sri Lanka
SRTM	: Shuttle Radar Topography Mission
TDL	: Trading License
TFV	: Ten percent Fines Value
US	: United States
WGS	: World Geodetic System
WHO	: World Health Organization
3D	: Three Diamentional

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ABSTRACT

Oddusudan area can be considered as the terminating or stopping point of the aggregate distributing pattern of Sri Lanka. There are no standard mining fields available further moving towards North. Huge development is on progress with the termination of the terrorist activities after 30 years. Presently infrastructure development in the Northern area can be considered as the main business.

The aim of the research was to emphasize the importance of the mining industry to the Oddusudan area. Anyone can point out several damages occurred to their property or belongings due to this mining operation. But complaining is just one method and here with the research identified and introduced under what range zone that the company needs to consider about the complains. Many experienced mining operators tend believe permanent structures beyond the range of 800meters less liable for get damaged or to be complained. With this research figures proves that believe is wrong and identify risk area starts with the range of 800 meters and it will spread up to 1200 meters.

Resettlement process and many development projects such as road, railway and housing projects funded by several organizations and by some nearby countries. With the end of war and people are now settling they a need medium for living. So many and more job opportunities are required. The population fluctuation pattern need to identify earlier or else the peacefulness in the area and can create social inquietude. Most of young bloods rehabilitated are ex-LTTE carders with hot blood temperature. These young mind sets

tend to float as they will look for money for satisfy their needs. Jobs will tight up their minds and kept them busy. That is highly required specially in this transit period. As stated by the officer in charge of the oddusudan police station his police station is the best police station with less number of crimes in the northern area.

After the project termination, refilling the excavated area with used soil or waste is the traditional method of rehabilitation. But considering adjacent geographical features and socio environmental requirements of the area, this research can introduce a most suitable methodology for rehabilitation. Study area comes under the dry zone and annual rain fall comes between 1500milimeter to 1900 millimeter and majority of rain collected in the months of October to December respectively. During the north east monsoon and there after till convectional rain fall in April, there will be a less rain throughout the year.

People in the area suffer due to lack of rain fall and irrigatable land area got restricted to this reason. So while taking the highly demanded aggregate source out from a soil, afterward can converted this project in to a useful outcomes with benefiting the people. Propose artificial tan with lifting mechanism will benefit both people and wild animals with collection of rain water catchment for their survival and for requirements.

CHAPTER 01

1. Introduction

This research highlights that aggregate industry highly demanded for development in Northern Province and its bond with the local society. Many projects observed successfully completed and many are being followed. Those projects provide evidence of the nature of development that is on progress. Also need to denote that, for most of the projects aggregate requirements were fulfilled and catered though the supply from this Oddusudan area.

People in Oddusudan area suffered from war for more than 30 years and now in the transit period. From past records many individuals can be identified as Ex-LTTE (Liberation Tigers of Tamil Eelam) carders. Situation is like that and war is over still these people in the recovery period. These people need medium of living, as most of them have lost or sacrificed every single penny of their past living and earning during the war period. These quarry/mining industry means a great deal of relief to them. Few reputed companies operating quarries/mining fields in the area. These companies do look after these people's needs and these innocent people presently living happily with rapid personal development. In other words whatever the development in Oddusudan area in personal lives of these people are achieved today mainly thanks to these mining organizations.

Mining industry and its related business activities can be identified as the main source of income to these people. For Oddusudan mining is not just another industry when compare to other areas in the country. Villagers in Oddusudan and mining are heavily bonded with each other with benefit sharing. Rather than always look about this mining industry with dark glass on. Here the attention was focused to discuss about both positive factors same as negatives about the mining industry with related to the Oddusudan area.