TABLE OF CONTENTS

			Page
Title page			i
Table of contents			ii
List of tables			vi
List of figures			vii
List of abbreviations			viii
Non Technical Summary			ix
CHAPTER 1: INTRODUCTION			1
1.1	Project background		1
1.2	Aims and objectives		2
1.3	Brief on project proponent		3
1.4	Justification of project		4
	1.4.1	Environment Impact Assessment	6
CHAPTER 2: SITE DESCRIPTION			7
2.1	Project Site Location		7
	2.1.1	Extent of land and Ownership	7
2.2	Legal Requirements, Planning & Policies		7
	2.2.1	Environment Protection Act 2002	7
	2.2.2	National Development Plan	8
	2.2.3	Planning and Policies	9
	2.2.4	Zoning	9
2.3	Site Characteristics		10
	2.3.1	Fauna and Flora	10
	2.3.2	Existing features and land use	10
		2.3.2.1 Surrounding Environment	12
	2.3.3	Access road	14
	2.3.4	Geological, Topographical and Soil characteristics	16
		2.3.4.1 Topography	16
		2.3.4.2 Site geology and soil characteristics	16
	2.3.5	Water bodies and wetlands	16
	2.3.6	Surface water resources	16
	2.3.7	Groundwater resources	17
2.4	Climatic conditions		17
	2.4.1	Climate	17
	2.4.2	Temperature	17
	2.4.3	Rainfall	17
	2.4.4	Wind regime	18
CHAPTER 3: PROJECT DESCRIPTION			19
3.1	Project description		19
3.2	Type of project		19

3.3	Project activities		20
	3.3.1	De-rocking	20
	3.3.2	The stone crushing plant	21
	3.3.3	Stockpiles	21
	3.3.4	Technical Characteristics of the crusher	21
3.4	List of equipment		22
3.5	Infrastructure		22
	3.5.1	Administrative block	22
	3.5.2	Site office	22
	3.5.3	Maintenance workshop	22
	3.5.4	Personnel and labour force	22
	3.5.5	Power supply	23
	3.5.6	Domestic water supply	23
	3.5.7	Industrial water demand	23
	3.5.8	Telecommunication facilities	24
	3.5.9	Disposal of wastewater	24
		3.5.9.1 Domestic wastewater	24
		3.5.9.2 Industrial wastewater	25
	3.5.10	Solid waste disposal	26
		3.5.10.1 Domestic Wastes	26
		3.5.10.2 Industrial Wastes	26
	3.5.11	Diesel storage	26
3.6	Security		27
3.7	Hours of operation		27
3.8	Proposed implementation schedule		28
CHAPTER 4: METHOD OF ASSESSMENT OF BASELINE ENVIRONMENT			29
4.1	Introduction		29
4.2	Methodology for collection of Baseline information		29
	4.2.1 Noise assessment survey		29
4.3	Consultation		31
4.4	Identification of further studies		32
CHAPTER 5: PREDICTED ENVIRONMENTAL IMPACTS			33
5.1	Introduction		33
5.2	Impacts on Air Quality		33
5.3	Noise emissions		38
5.4	Traffic impacts		40
5.5	Generation of Solid waste		41
5.6	Water consumption		43
5.7	Liquid waste		45
5.8	Risk Assessment		46
	5.8.1	Risk to fire	46
	5.8.2	Spillage of diesel, used oil and chemical products	47

CHAPTER 6: MITIGATION MEASURES			48
6.1	Introduction		48
6.2	Impacts on air quality		48
6.3	Noise emissions		49
6.4	Traffic impacts		51
6.5	Generation of Solid waste		51
6.6	Liquid waste		53
6.7	Mitigation of risks		55
	6.7.1	Risk to fire	55
	6.7.2	Spillage of chemical products	57
	6.7.3	Diesel tanks	57
CHAPTER 7: RESIDUAL IMPACTS			58
7.1	Introduction		58
7.2	Residual impacts during the construction phase		58
7.3	De-commissioning		60
CHAPTER 8: SOCIO-CULTURAL AND SOCIO-ECONOMIC IMPACTS			62
CHAPTER 9 : ENVIRONMENTAL MANAGEMENT PLAN			63
9.1	Introduction		63
9.2	Objectives of the EMP		64
9.3	Potential impacts, their Mitigation and Monitoring plan		65
9.4	Emergency Response Plan		71
CHAPTER 10: ENHANCEMENT OPPORTUNITIES			72
CHAPTER 11 : ALTERNATIVE TO PROPOSED UNDERTAKING			73
11.1	Introduction		73
11.2	Alternatives to project		73
	11.2.1	Alternative location	73
	11.2.2	Alternative to proposed project	73
CHAPTER 12: CONCLUSION			75
References			
LIST OF ANNEXES			
1	Stop Order from the Ministry of Environment and Sustainable Development		
2	Business registration card and Certificate of incorporation		
3	Location plan		
4	Development Strategy Map		
5	Title deeds, Lease Agreement and Right of way agreement		
6	Land Use Map		

7	Contours Map
8	Geological Map
9	Agreement letters from owners of de-rocking sites
10	List of Equipment
11	Design of septic and absorption pit
12	Noise results and Location plan showing Noise monitoring points
13	The letter of consent and the list of the petitioners
14	Calculation for emission of TSP
15	Calculation for emission of air pollutants
16	Calculation for noise propagation
17	Flowchart for proposed contingency procedure