



**a.b.e industrial products
(indian ocean) ltd.**

Waterproofing - Silicone & Sealants - Epoxies - Varnishes
Tile Adhesives - Grouts - Rendering - Cementitious - Flooring

**PROPOSED CIMENTITIOUS
PRODUCTS FACTORY
FOR
A.B.E INDUSTRIAL PRODUCTS
(INDIAN OCEAN) LTD
AT
LA JOLIETTE, PETITE RIVIERE**

**ENVIRONMENTAL IMPACT
ASSESSMENT REPORT
[E.I.A]**

KASELOR LTD

*Consulting Civil, Structural &
Environmental Engineers*

**Rue De La Canelle,
Ebene City,
Ebene**

**Tel/Fax :- (230) 465-8154
e-mail: kaselor@orange.mu**

April 2013

TABLE OF CONTENTS

Title Page		1
Table of Contents		2
List of Tables		4
List of Figures		4
List of Plates		4
List of annexes		5
Executive Summary		7
Chapter 1.0	Introduction	10
	1.1 Background Information	10
	1.2 The Proposed Project	14
	1.3 Employment Opportunities	14
	1.4 The Need for an EIA	15
	1.5 EIA Consultant Appointment	15
Chapter 2.0	Methods of Assessment	16
Chapter 3.0	Project Site Description	19
	3.1 Project Location	19
	3.2 Ownership of Land	20
	3.3 The surrounding Environment	20
	3.4 Access to site	23
	3.5 Zoning	25
	3.6 Infrastructure & Public Utilities	25
	3.7 Climate	25
	3.8 Landform & soil type	26
	3.9 Water resources	27
	3.10 Flora & fauna	27
	3.11 Value of project site as designated site	27
Chapter 4.0	Project Justification & Description	28
	4.1 Project Justification	28
	4.2 Project Description	28
	4.2.1 Unit 1	28
	4.2.2 Unit 2	31
	4.3 The Building	40
	4.3.1 Building & Planning Guidelines	41

	4.3.2	Building height	41
	4.3.3	Plot Ratio	41
	4.3.4	Building setbacks	42
	4.3.5	Landscaping	43
	4.4	The Equipment	44
	4.5	Environment Law & Regulation	44
	4.6	Alternatives to the Proposed Project	45
Chapter 5.0	Predicted Impact & Mitigative measures		47
	5.1	Impact Identification	47
	5.2	Dust Emanation	47
	5.2.1	Sources of dust	47
	5.2.2	Mitigating Measures	47
	5.3	Wastewater	49
	5.3.1	Types of wastewaters	49
	5.3.2	Mitigating Measures	49
	5.4	Solid Waste	51
	5.4.1	Sources of solid waste	51
	5.4.2	Mitigating Measures	51
	5.5	Noise	51
	5.5.1	Sources of Noise	51
	5.5.2	Mitigating Measures	52
	5.6	Impact on built environment	52
	5.6.1	Traffic	52
	5.6.2	Water	53
	5.6.3	Electricity	54
	5.6.3	Telecommunication	54
	5.7	Impact on elements of natural environment	54
	5.7.1	Ecology	54
	5.7.2	Hydrology	54
	5.7.3	Geology & soil	54
	5.7.4	Landscape effect	55
	5.7.5	Land Use	55
	5.7.6	Impact on water quality	55
	5.8	Health & Safety	55

	5.9	Socio-economic impact	56
Chapter 6.0	Environmental Monitoring Plan		58
	6.1	Scope	58
	6.2	Operation	58
	6.3	Maintenance	59
	6.4	Auditing	59
	6.5	Environmental Monitoring Plan at operational Phase	60
Chapter 7.0	Conclusions		61

	<u>LIST OF TABLES</u>		
Table 1.1	List of products in bulk and packed		10
Table 1.2	The range of cimentitious products		11
Table 3.1	Surrounding features and their distance from the project site		23
Table 3.2	Climatology in the west of the island		26
Table 4.1	Plot & building areas		42
Table 4.2	Recommended minimum building setbacks		43
Table 5.1	Assessment groups on which to assess impacts		47
Table 6.1	EMP - operational Phase		60

	<u>LIST OF FIGURES</u>		
Figure 3.1	Location of project at La Joliette, Petite Riviere		19
Figure 4.1	Schematic representation of the fabric filter		35

	<u>LIST OF PLATES</u>		
Plate 3.1	Aerial view of the project site		20
Plate 3.2	Nabridas industry		21
Plate 3.3	Quality furniture industry		21
Plate 3.4	A factory under construction		22
Plate 3.5	Another factory under construction		22
Plate 3.6	The Riviere Noire A3 Road		23
Plate 3.7	Road access to the project site through the A3 Road		24
Plate 3.8	The tarred road access to the project site		24

Plate 4.1	Pastry packaging machine transferring products into smaller sized containers og 0.5L, 1L,& 5L	29
Plate 4.2	Moxer blending resin and other products	29
Plate 4.3	Finished products imported in bulk, drum of 200 L	30
Plate 4.4	Finished products imported in bulk	30
Plate 4.5	Finished products in containers ready for immediate distribution	30
Plate 4.6	Handling of rock sand and covered belt conveyer	32
Plate 4.7	Rocksand fed into a tank and fall onto an underneath belt conveyer	33
Plate 4.8	Silo to store raw cement	33
Plate 4.9	The above-ground diesel tank within an appropriate dund	34
Plate 4.10	Rocksand conveyed into the dryer	34
Plate 4.11	The dryer and the flame from the diesel burner	35
Plate 4.12	The vibrating screen with 3 sieves	36
Plate 4.13	The 3 tanks holding the 3 different sized rocksand	36
Plate 4.14	The weighing scale	37
Plate 4.15	The ball mill	37
Plate 4.16	The Z-blade mixer	38
Plate 4.17	The automatic packaging machine in operation	38
Plate 4.18	Finished bags of tylfix	39
Plate 4.19	Store for the finished products	39
Plate 4.20	The building	40
Plate 5.1	The tarpaulin used to cover the stockpile and the covered belt conveyer	48
Plate 5.2	Rainwater harvesting system	50

	<u>LIST OF ANNEXES</u>	
Annex A1	Copy of ABE certificate of incorporation	
Annex A2	Copy of Business Registration certificate	
Annex A3	Location & site Plan of coromandel plant	
Annex A4	Technical sheets of the cimentitious products	
Annex A5	Building layout plan at Coromandel	
Annex A6	BLUP for 3 existing building at La Joliette	

Annex A7	Copy of letter dated 5 th July from Kaselor Ltd
Annex A8	Copy of letter from BRDC, requiring clearance from Ministry of Environment & Sustainable Development
Annex A9	Copy of letter from Ministry of Environment & Sustainable Development requiring the EIA report for the project
Annex A10	Copy of authorisation letter entrusted to Kaselor Ltd to prepare EIA report
Annex B1	Copy of title deeds
Annex B2	Context Plan
Annex B3	Geotechnical Investigation
Annex C1	Schematic representation of the processes
Annex C2	Architectural Plan illustrating the floor layout of the building
Annex C3	Section Plan of the building illustrating its height
Annex C4	Site Plan
Annex C5	Copy of letter from Tusk Contracting Ltd authorizing A.B.E Industrial Products Ltd to build the factory