## EXECUTIVE SUMMARY

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>INTRODUCTION</td>
<td>1-1</td>
</tr>
<tr>
<td>1.1</td>
<td>General and Project Background</td>
<td>1-1</td>
</tr>
<tr>
<td>1.2</td>
<td>The Promoter and Project Team</td>
<td>1-1</td>
</tr>
<tr>
<td>1.3</td>
<td>Project Implementation</td>
<td>1-2</td>
</tr>
<tr>
<td>1.4</td>
<td>Report Structure</td>
<td>1-2</td>
</tr>
<tr>
<td>2</td>
<td>LEGAL FRAMEWORK FOR EIA</td>
<td>2-1</td>
</tr>
<tr>
<td>2.1</td>
<td>Introduction</td>
<td>2-1</td>
</tr>
<tr>
<td>2.2</td>
<td>The Environment Protection Act 2002</td>
<td>2-1</td>
</tr>
<tr>
<td>2.3</td>
<td>Application for EIA License</td>
<td>2-2</td>
</tr>
<tr>
<td>2.4</td>
<td>Other Main Applicable Legal Provisions, Policies and Guidelines</td>
<td>2-2</td>
</tr>
<tr>
<td>2.4.1</td>
<td>The Sugar Industry Efficiency Act 2001</td>
<td>2-2</td>
</tr>
<tr>
<td>2.4.2</td>
<td>The Morcellement Act 1990</td>
<td>2-3</td>
</tr>
<tr>
<td>2.4.3</td>
<td>The Business Facilitation (Miscellaneous Provisions) Act 2006</td>
<td>2-6</td>
</tr>
<tr>
<td>2.4.4</td>
<td>The White Paper on National Environment Policy</td>
<td>2-6</td>
</tr>
<tr>
<td>2.4.5</td>
<td>National Environmental Strategies</td>
<td>2-7</td>
</tr>
<tr>
<td>2.4.6</td>
<td>The National Development Strategy 2003 &amp; Planning Policy Guidance 2004</td>
<td>2-8</td>
</tr>
<tr>
<td>2.4.7</td>
<td>Outline Planning Scheme for Grand Port –Savanne District Council Area</td>
<td>2-9</td>
</tr>
<tr>
<td>2.4.8</td>
<td>Strategic Development Policies:</td>
<td>2-9</td>
</tr>
<tr>
<td>2.4.9</td>
<td>The Forest and Reserves Act 1983</td>
<td>2-14</td>
</tr>
<tr>
<td>2.4.10</td>
<td>The Rivers and Canals Act 1863</td>
<td>2-15</td>
</tr>
<tr>
<td>2.4.11</td>
<td>The Rivers (Control of Vegetation) Act 1946</td>
<td>2-15</td>
</tr>
<tr>
<td>2.4.12</td>
<td>Central Water Authority Act 1991</td>
<td>2-15</td>
</tr>
<tr>
<td>2.4.13</td>
<td>Wastewater Management Authority Act 2000</td>
<td>2-16</td>
</tr>
<tr>
<td>2.4.14</td>
<td>Planning Policy Guidance (PPG) prepared by the Ministry of Housing and Lands (MHL)</td>
<td>2-16</td>
</tr>
<tr>
<td>2.4.15</td>
<td>Planning Policy Guidance 5 (April 2008 Issue) – Development along Motorway</td>
<td>2-17</td>
</tr>
<tr>
<td>2.4.16</td>
<td>Technical Guidelines for Residential Morcellement Development</td>
<td>2-17</td>
</tr>
<tr>
<td>2.4.17</td>
<td>International Treaties and Agreements</td>
<td>2-17</td>
</tr>
</tbody>
</table>

## PROJECT JUSTIFICATION AND ALTERNATIVES

3 3-1
3.1 Project Justification 3-1
3.2 Project Alternative 3-1

4 PROJECT DESCRIPTION 4-1
4.1 Project Site 4-1
4.2 Land Ownership and Site Description 4-1
4.3 Project Details 4-2
4.3.1 General 4-2
4.3.2 Project Masterplan 4-2
4.3.3 Utilities 4-5
4.3.4 Water Supply 4-5
4.3.5 Storm Water Drainage 4-6

5 BASELINE ENVIRONMENT AND ASSESSMENT 5-1
5.1 General 5-1
5.2 Site Description and Project Area 5-1
5.2.1 Project Site 5-1
5.2.2 Project Influence Area 5-1
5.2.3 Site Description 5-2
5.3 Terrestrial Environment of Site 5-2
5.3.1 Site Topography 5-2
5.3.2 Geology and Hydrogeology 5-3
5.3.3 Biodiversity 5-4
5.4 General Climatic Condition and Hydrology 5-5
5.4.1 Wind Regime and Wind Pattern 5-5
5.4.2 Rainfall 5-6
5.4.3 Cyclone and Natural Catastrophes 5-6
5.4.4 Surface Run-off and Drainage 5-6
5.5 Air Quality and Noise 5-7
5.5.1 Air Quality 5-7
5.5.2 Noise 5-7
5.6 Built Environment 5-8
5.6.1 General 5-8
5.6.2 Airport Restriction Zone 5-8
5.6.3 Existing Settlements 5-9
5.6.4 Social Facilities 5-9
5.7 Traffic and Infrastructure 5-9
5.7.1 Existing Infrastructure 5-9
5.7.2 Existing Vehicular Traffic 5-9

6 IMPACTS IDENTIFICATION, ASSESSMENT AND MITIGATION 6-1
6.1 Methodology 6-1
6.1.1 General 6-1
6.1.2 Site Development Works 6-1
6.1.3 Impacts Classification 6-2

6.2 Impacts during Construction Phase 6-2
6.2.1 Land and Soil 6-2
6.2.2 Biodiversity 6-4
6.2.3 Groundwater 6-4
6.2.4 Surface Water 6-4
6.2.5 Air Quality 6-5
6.2.6 Noise 6-6
6.2.7 Solid Waste 6-6
6.2.8 Wastewater Management 6-7
6.2.9 Health and Safety 6-7
6.2.10 Traffic and Road Network 6-8
6.2.11 Socio-economic 6-8

6.3 Impacts during Operation Phase 6-8
6.3.1 Groundwater 6-8
6.3.2 Biodiversity 6-8
6.3.3 Surface Water and Drainage 6-9
6.3.4 Air Quality 6-9
6.3.5 Noise 6-10
6.3.6 Solid Waste 6-10
6.3.7 Wastewater Management 6-10
6.3.8 Traffic and Infrastructure during Operation Phase 6-10

6.4 Summary of Impacts 6-12

7 ENVIRONMENTAL MONITORING PLAN 7-1
7.1 EMP at Construction Stage 7-1

8 CONCLUSION 8-1

APPENDICES

Appendix A: Administrative Documents of Rose Belle Sugar Estate Board
Appendix B: Schedule of Plots and Test Reports
Appendix C: Drawings