# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXECUTIVE SUMMARY</td>
<td>i</td>
</tr>
<tr>
<td>TABLE OF CONTENTS</td>
<td>iv</td>
</tr>
<tr>
<td>LIST OF TABLES</td>
<td>vi</td>
</tr>
<tr>
<td>LIST OF FIGURES</td>
<td>vii</td>
</tr>
<tr>
<td>LIST OF PLATES</td>
<td>vii</td>
</tr>
<tr>
<td>LIST OF APPENDICES</td>
<td>vii</td>
</tr>
<tr>
<td>1 INTRODUCTION</td>
<td>2</td>
</tr>
<tr>
<td>1.1 General Introduction.</td>
<td>2</td>
</tr>
<tr>
<td>1.2 Background to the Project</td>
<td>2</td>
</tr>
<tr>
<td>1.3 Specifications of the Blended Cement</td>
<td>4</td>
</tr>
<tr>
<td>1.4 Justification for the Project</td>
<td>4</td>
</tr>
<tr>
<td>1.5 The Promoter, Project site and Time frame for the development</td>
<td>5</td>
</tr>
<tr>
<td>1.6 The Study Team, Terms of Reference, Scope and Methodology of the Environmental Impact Assessment</td>
<td>6</td>
</tr>
<tr>
<td>1.7 Structure of the EIA Report</td>
<td>7</td>
</tr>
<tr>
<td>2 ENVIRONMENTAL POLICY, INSTITUTIONAL AND LEGISLATIVE FRAMEWORK</td>
<td>8</td>
</tr>
<tr>
<td>2.1 National Environmental Policy</td>
<td>8</td>
</tr>
<tr>
<td>2.2 Policy for Fly-Ash Use and Disposal</td>
<td>8</td>
</tr>
<tr>
<td>2.3 Legislative Provisions for Environmental Protection</td>
<td>9</td>
</tr>
<tr>
<td>2.4 Port Rules and Regulations</td>
<td>10</td>
</tr>
<tr>
<td>2.5 Administrative Clearances</td>
<td>10</td>
</tr>
<tr>
<td>2.6 The Company’s Quality, Environment and Health and Safety Policy</td>
<td>10</td>
</tr>
<tr>
<td>3 DESCRIPTION OF THE PROJECT</td>
<td>12</td>
</tr>
<tr>
<td>3.1 Project Outline</td>
<td>12</td>
</tr>
<tr>
<td>3.1.1 Raw Materials and Finished Products</td>
<td>12</td>
</tr>
<tr>
<td>3.1.2 Fly Ash Characteristics</td>
<td>13</td>
</tr>
</tbody>
</table>
3.1.3 Transportation, Unloading and Storage of Fly Ash
3.1.4 Main Processes
3.1.5 Size of Installations
3.1.6 Employment
3.1.7 Project Implementation Schedule

3.2 Infrastructure and Services
3.2.1 Stormwater Drainage
3.2.2 Electricity Consumption
3.2.3 Hazardous Materials Storage
3.2.4 Solid Waste Disposal
3.2.5 Quality Control

4 BASELINE ENVIRONMENTAL CONDITIONS

4.1 Site and Project Area
4.2 Land Topography and Geology
4.3 Climatic Conditions
  4.3.1 General Climatic Conditions
  4.3.2 Site Climatic Conditions
    4.3.2.1 Wind Regime
    4.3.2.2 Rainfall
    4.3.2.3 Temperature
4.4 Air Quality
  4.4.1 Existing Air Quality
  4.4.2 Ambient Air Quality Monitoring
4.5 Noise levels
4.6 Site Hydrology, Aquatic Environment and Water Quality
  4.6.1 Site Hydrology
  4.6.2 Freshwater Environment
  4.6.3 Marine Environment
4.7 Terrestrial Ecology
4.8 Cultural and Historical Heritage
4.9 Landscape and Visual Environment
4.10 Traffic
5 IDENTIFICATION AND ASSESSMENT OF ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

5.1 Scoping Exercise

5.2 Air Quality
   5.2.1 Fugitive Dust Emissions
   5.2.2 Sources of Dust and Design Control Measures
   5.2.3 Emergency/Operational Procedures
   5.2.4 Site Factors affecting Risk of Dust Impact
   5.2.5 Assessment of Dust Impacts – Construction Phase
   5.2.6 Assessment of Dust Impacts – Operational Phase
   5.2.7 Mitigation Measures and Residual Impacts
   5.2.8 Conclusions

5.3 Noise and Vibration
   5.3.1 Legislation and Noise
   5.3.2 Assessment of Noise Impacts
   5.3.3 Mitigation measures and Residual Impacts
   5.3.4 Conclusions

5.4 Water Quality and Marine Environment
   5.4.1 Effects on Water Quality and the Aquatic Environment
   5.4.2 Mitigation Measures and Residual Impacts
   5.4.3 Conclusions

5.5 Potential impacts after Mitigation Measures

6 DEVELOPMENT ALTERNATIVES

7 ENVIRONMENTAL MANAGEMENT PLAN

7.1 Environmental Mitigation plan

7.2 Environmental Management and Monitoring Plan

8 CONCLUSIONS

References

Appendices
LIST OF TABLES

Table 3.1: Type and Indicative Annual Production of Blended Cements 12
Table 3.2: Maximum storage capacity 18
Table 4.1: Mean monthly wind speeds measured at Fort-William (1996-2005) 27
Table 4.2: Ambient Air Quality at Apravasi Ghat in 2006 29
Table 4.3: Ambient Air Quality Monitoring results on the boundary of Holcim (Mauritius) Ltd in August 2010.
Table 4.4: Summary of Baseline L.Aeq Noise levels recorded 31
Table 5.1: Size and Moisture content of Raw Materials 44
Table 5.2: Significance of Likely Noise level changes 47
Table 5.3: World Bank Guidelines for Cement Manufacturing Facilities 48
Table 5.4: Summary of Potential Impacts after Mitigation. 53
Table 7.1: Mitigation Plan 57

LIST OF FIGURES

Figure 3.1: Site Plan of Existing Plant 14
Figure 3.2: General arrangement of the existing plant 16
Figure 3.3: Manufacture of Blended Cement 17
Figure 3.4: Process Flow Diagram of proposed Project 18
Figure 3.5: Stormwater Drainage Arrangements 20
Figure 4.1: Project Area 24

LIST OF PLATES

Plate 1.1: Site Location Map in Harbour 3
Plate 4.1: Site Location and boundary 22

LIST OF APPENDICES

Appendix A: Certificate of Incorporation 64
Appendix B: Copy of Lease Agreement 67
Appendix C: EIA License granted in 1998 73
Appendix D: Correspondences with Ministry of Commerce, MPA and MSB 76
Appendix E: Climatic Data 79
Appendix F: Fly Ash characteristics 82