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**SPECIFICATION FOR
BLENDED HYDRAULIC CEMENTS**
(Second Revision)

SRI LANKA STANDARDS INSTITUTION

Sri Lanka Standard
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(Second Revision)

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FOREWORD

This standard was approved by the Sectoral Committee on Building and Construction Materials and was authorized for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standards Institution on 2015-11-19.

This standard was first published in the year 2003 and was revised in 2008. This is the second revision of the standard. Since the first issue of this standard, there was a gradual increase in the usage in Sri Lanka. Blended Hydraulic Cements (BHCs) normally produce less heat of hydration and offer greater resistance to the effect of aggressive environment than Portland cement. Moreover, it reduces the leaching of calcium hydroxide liberated during the hydration of cement. It is particularly useful in marine and hydraulic structures and large mass concrete structures. BHC can generally be used wherever Ordinary Portland Cement (OPC) is usable under normal conditions (see Appendix **D**). Further criterion for differentiation of rapid hardening and normal hardening cement was also introduced.

This specification has been prepared to enable manufacturers to produce BHC equivalent to OPC on the basis of compressive strength at 2 days, 7 days and 28 days.

For the purpose of comparison of cement type given in this standard with those given in **BS EN 197-1**, corresponding equivalent cement type with respect to **BS EN 197-1** is given where applicable.

Appendix **B** of the standard provides some guidelines on the use of cement while Appendix **C** gives some useful information on adulterated cement. This current revision of the standard refers to relevant SLS ISO standard test methods.

Further guidance on usage of this cement with respect to other cements in Sri Lanka (see Appendix **D**) is also included to satisfy a pressing need of the cement users.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test method or observation shall be rounded off in accordance with **SLS 102**. The number of significant places retained in the rounded off value shall be the same as that of the specified value in this standard.

In the preparation of this standard the assistance derived from the publications of the International Organization for Standardization (ISO), European Committee for Standardization (CEN) and British Standards Institution (BSI) are gratefully acknowledged.

1 SCOPE

This standard covers the requirements for constituents, composition, mechanical properties, physical properties, chemical properties, packaging, marking and delivery of Blended Hydraulic Cements (BHCs).

This specification pertains to two strength classes of BHCs.

NOTE: *Requirements for other cements are covered in separate Sri Lanka standards (see Clause 2).*