

(PREVIEW)

IS : 5409 (Part 1) - 1985

Indian Standard

SPECIFICATION FOR AGRICULTURAL LIMING MATERIALS AS SOIL AMENDMENTS

PART 1 HYDRATED LIME AND BURNT LIME

(First Revision)

FOREWORD

0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 30 August 1985, after the draft finalized by the Soil Amendments and Reclamation of Problem Soils Sectional Committee had been approved by the Agricultural and Food Products Division Council.

0.2 Hydrated lime and burnt lime, apart from being important raw materials for various chemical industries, are also used for correcting soil acidity to create optimal plant growth conditions in acidic soils. These amendments are among the few liming materials known for their high Calcium Carbonate Equivalent (CCE) percent and usually have rapid neutralizing effect on acidic soils.

0.3 This standard was first published in 1969. The liming materials such as limestone, dolomite, basic slag, sea shells, pressmud, by-product, calcium carbonate and by-product hydrated lime have been included. Since the neutralizing value and physical characteristics of liming materials vary to a great extent. It was considered desirable to prepare separate specifications for different liming materials used as soil amendments. Hence, a series of Indian Standards covering different liming materials used as soil amendments is being prepared. Limestone and dolomite have been covered under Part 2. It is hoped that adoption of these standards would enable both consumers and producers for procuring and supplying quality materials.

0.4 The requirements for quick lime and hydrated lime for chemical industries, have been covered in IS : 1540 (Part 1) 1980* and IS : 1540 (Part 2) 1978† respectively.

0.5 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 or analysis, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard (Part I) prescribes the requirements and methods of sampling and test for hydrated lime and burnt lime used as soil amendments.

*Specification for quick lime and hydrated lime for chemical industries: Part 1 Quick lime (*second revision*)

†Specification for quick lime and hydrated lime for chemical industries: Part 2 Hydrated lime (*second revision*)