

***Indian Standard***  
**METHOD FOR DETERMINATION OF  
ANGLE OF REPOSE OF GRAINS**

**0. FOREWORD**

**0.1** This Indian Standard was adopted by the Indian Standards Institution on 6 October 1972, after the draft finalized by the Storage and Marketing Structures for Agricultural Commodities Sectional Committee had been approved by the Agricultural and Food Products Division Council.

**0.2** Angle of repose is important in designing a structure for storage of grains in bulk. Several methods are currently being used to measure the angle of repose. Because of different methods used by agricultural scientists, it is not possible to have reproducible figures of angles of repose of various food grains. Thus the designing of bulk storage structures is handicapped. This standard, therefore, prescribes a method for measuring the angle of repose. Adoption of this standard would enable the compilation of data from all research workers on a uniform basis.

**0.3** For the convenience of design engineers, some of the observed values of angles of repose of grains supplied by the Indian Grain Storage Institute, Hapur are given in Appendix A for guidance. The angle of repose varies with moisture content, variety of grains, etc, and, therefore, caution should be exercised in adopting the figures of angle of repose given in the appendix.

**0.4** In reporting the result of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS : 2-1960\*.

**1. SCOPE**

**1.1** This standard prescribes the method for determination of angle of repose of grains for bulk storage purposes.