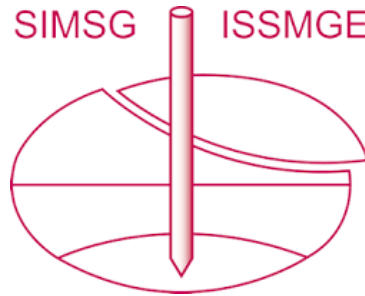


# INTERNATIONAL SOCIETY FOR SOIL MECHANICS AND GEOTECHNICAL ENGINEERING



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(d) For the various soil types in India e.g. the red soil of the South, black cotton soil of Western India, silty loams of Bengal, alluvials of the United Provinces etc., the

same principles of compaction cannot be applied to all of them. For best compaction a series of field experiments should be carried out for the available soil. 2)

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### NATIONAL EXPOSITION OF THE LATEST INVENTIONS AND IDEAS

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The soil profile is being used as the initial basis of soil classification for certain engineering purposes. Soils are being classified and mapped on this descriptive basis as the first step in investigations relating to house foundations. Soil survey methods have been developed to suit the purpose.

A revised triangular diagram has been drawn up showing the relation between field descriptions of texture and size distribution of particles (International size fractions). A new type of texture diagram has also been de-

veloped in which the median size of the non-clay fraction is plotted against the clay content. The diagram is subdivided horizontally into four categories of fineness of the non-clay fraction and vertically into five categories of clay content. The texture categories shown in this diagram are independent of any arbitrary size chosen for dividing the silt and sand fractions. (Published in "Mechanical composition of soil in relation to field descriptions of texture." T.J. Marshall, Bull. 224, Counc. Sci. Ind. Res. (Aust.), 1947 )

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