Indian Standard

IMPROVING EARTHQUAKE RESISTANCE OF LOW STRENGTH MASONRY BUILDINGS – GUIDELINES

1 SCOPE

1.1 This standard covers the special features of design and construction for improving earthquake resistance of buildings of low-strength masonry.

1.1.1 The provisions of this standard are applicable in seismic zones III to V. No special provisions are considered necessary for buildings in seismic zones I and II.

1.1,2 The various provisions of IS 4326 : 1993 regarding general principles, special construction features, types of construction, categories of buildings and masonry construction with rectangular masonry units are generally applicable to the masonry buildings of low strength dealt with in this standard. There are however certain restrictions, exceptions and additional details which are specifically included herein. For completeness however all necessary portions are repeated here.

NOTE - Attention is hereby drawn to the face that low-strength masonry at dealt with herein will neither qualify as engineered construction nor totally free from collapse in the severe seismic intensities VI11 or IX. However, inclusion of special seismic design and construction features provided herein will raise their seismic resistance appreciably, reducing greatly chances of collapse even in such seismic intensities.

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard:

IS No.	Title
1597 (Part 1) : 1967	Code of practice for construction of stone masonry : Part 1 Rubble stone masonry
1893 : 1984	Criteria for earthquake resistant design of structures *(.first revision*)
1904 : 1984	Code of practice for design and construction of foundations in soils General Requirements
4326 : 1993	Code of practice for earthquake resistant design and construction of buildings (*second revision)*