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METHOD OF MEASUREMENT OF BUILDING AND CIVIL ENGINEERING WORKS

PART X CEILING AND LININGS

(Second Revision)

(Incorporating Amendment Nos. 1 & 2)

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Indian Standard

METHOD OF MEASUREMENT OF BUILDING AND CIVIL ENGINEERING WORKS

PART X CEILING AND LININGS

(Second Revision)

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Indian Standard

METHOD OF MEASUREMENT OF BUILDING AND CIVIL ENGINEERING WORKS

PART X CEILING AND LININGS

(Second Revision)

0. FOREWORD

- **0.1** This Indian Standard (Part X) (Second Revision) was adopted by the Indian Standards Institution on 16 February 1973, after the draft finalized by the Civil Works Measurement Sectional Committee had been approved by the Civil Engineering Division Council.
- **0.2** Measurement occupies a very important place in the planning and execution of any civil engineering work from the time of first estimates to the final completion and settlement of payments for a project. Methods followed for measurement are not uniform and considerable differences exist among practices followed by different construction agencies and also among various Central and State Government departments. While it is recognized that each system of measurement has to be specifically related to administrative and financial organizations within a department responsible for the work, a unification of various systems at technical level has been accepted as very desirable, specially as it permits a wider range of operation for civil engineering contractors and eliminates ambiguities and misunderstandings of various systems followed.
- **0.3** Among various civil engineering items, measurement of buildings was the first to be taken up for standardization and this standard having provisions relating to building work was first published in 1958 and was revised in 1964.
- **0.4** In the course of usage of this standard by various construction agencies in the country, several clarifications and suggestions for modifications were received and as a result of study, the technical committee responsible for this standard decided that its scope besides being applicable to buildings should be expanded to cover method of measurement for civil engineering works, like industrial and river valley projects works.
- **0.5** Since different trades are not related to one another, the Sectional Committee decided that each trade as given in IS: 1200-1964* shall be

^{*}Method of measurement of building works (revised).

issued separately as a different part. This will also be helpful to users in using the specific standard.

- **0.5.1** This part covers method of measurement of ceiling and linings applicable to buildings as well as to civil engineering works.
- **0.6** This edition 3.2 incorporates Amendment No. 2 (February 1989). Side bar indicates modification of the text as the result of incorporation of the amendment. Amendment No. 1 had been incorporated earlier.
- **0.7** 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 measurement, 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 X) covers the method of measurement of ceilings and linings for buildings and civil engineering works.

2. GENERAL RULES

- **2.1 Clubbing of Items** Items may be clubbed together provided that the break-up of the clubbed items is agreed to be on the basis of the detailed description of the items stated in this standard.
- **2.2 Booking of Dimensions** In booking dimensions, the order shall be consistent and generally in the sequence of length, breadth or width and height or depth or thickness.
- **2.3 Description of Items** The description of each item shall, unless otherwise stated, be held to include where necessary, conveyance and delivery, handling, unloading, storing, fabrication, hoisting, all labour for finishing to required shape and size.
- **2.4 Measurements** Unless otherwise stated here-in-after all works shall be measured net in decimal system, as fixed in its place, as given in **2.4.1** and **2.4.2**.
- **2.4.1** Dimension shall be measured to the nearest 0.01 m.
- **2.4.2** Areas shall be worked out to the nearest 0.01 m².
- **2.5 Bills of Quantities** The bills of quantities shall fully describe the materials and workmanship, and accurately represent the work to be executed.

^{*}Rules for rounding off numerical values (revised).

2.6 Each type of work in ceiling and lining shall be measured separately.

3. MEASUREMENT

- **3.1** The materials, its thickness and method of fixing, shall be described. Supporting members shall be measured separately in the relevant part of this standard, unless otherwise specified.
- **3.2** If work is to be formed to any specific pattern, it shall be so stated.
- **3.2.1** Work formed to circular surfaces shall be measured separately; if fixed with screws, it shall be so stated. All straight and raking cutting and waste shall be included with the item concerned.
- **3.3** All work unless otherwise described shall be measured as flat in square metres.
- **3.4** No deduction in measurement shall be made for each of opening | not exceeding 0.4 m² and no extra measurement shall be made for forming such openings. For any opening exceeding 0.4 m² in area, deductions in measurements for the full openings shall be made and in such cases any labour involved in making these openings shall be measured separately.
- **3.5** Boarding fixed to curved surfaces in width not exceeding 15 cm shall be measured separately and shall include shooting the edges to proper splays.
- **3.6** Circular cutting and waste shall be measured in running metres stating the thickness and type of material.
- **3.7** Cover fillets over joints shall be measured separately in running metres stating the material, width and thickness of fillet. If the edges of fillets are chamfered, rounded or moulded, this shall be stated. Mitring at junctions shall be included in the description.
- **3.8** Sealing joints of plaster or fibre boards shall be measured in running metres. The method of sealing shall be described.
- **3.9** Chamfering or rounding edges of fibre boarding and cutting V-groove in the same shall be measured in running metres.
- **3.10** Insulation boards and slabs fixed to surfaces shall be measured in square metres stating type, the number of layers, thickness of each layer and the method of fixing.
- **3.10.1** Hollow insulation blocks shall be measured in square metres specifying the thickness. The method of setting and the type of mortar shall be described.

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