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METHOD OF MEASUREMENT OF BUILDING AND CIVIL ENGINEERING WORK

PART 26 ACID RESISTANT LINING

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PART 26 ACID RESISTANT LINING

Method of Measurement of Works of Civil Engineering (Excluding River Valley Project), BDC 44

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Indian Standard

METHOD OF MEASUREMENT OF BUILDING AND CIVIL ENGINEERING WORK

PART 26 ACID RESISTANT LINING

0. FOREWORD

0.1 This Indian Standard (Part 26) was adopted by the Indian Standards Institution on 20 March 1987, after the draft finalized by the Method of Measurement of Works of Civil Engineering (Excluding River Valley Projects) 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 of project. Methods followed for measurement are not uniform and considerable differences exist between practices followed by different construction agencies and also between various Central and State Government Departments, and their undertakings. While it is recognized that each system of measurement has to be specifically related to administrative and financial organiszations within a department responsible for the work, a unification of the various systems at technical levels has been accepted as very desirable, specially as it permits a wider range of operation for civil engineering contractors and eliminates ambiguities and misunderstandings arising out of inadequate understanding of various systems followed.

0.3 Since different trades are not related to one another, the Sectional Committee decided that for each separate standards shall be issued as different parts as it would be helpful to users in using the specific standard. This Part 26 covers method of measurement of acid resistant lining applicable to buildings as well as to civil engineering works.

0.4 Acid resistant lining is required to be done in some of the industrial buildings. The method of measurement of such type of lining varies from organization to organization. The technical committee responsible for formulation of this standard has, after considering practices being followed by some of the major organizations decided to prepare this standard which adopts simplest type of measurement.

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 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 26) covers the method of measurement of acid resistant lining.

2. GENERAL

2.1 Clubbing of Items — Items may by clubbed together provided that the break-up of clubbed items is agreed to be on the basis of detailed description of the items.

2.2 Book 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 wherever necessary conveyance and delivery, handling, unloading, storing, fabrication, hoisting, all labour for finishing to required shape and size, setting, fitting and fixing in position, straight outing and waste, return of packings, and other incidental operations.

2.4 Dimension — All work shall be meassured net, as laid, in the decimal system as under, unless otherwise stated hereinafter:

a) dimensions shall be measured to the nearest 0·01 m, and

b) areas shall be worked out to nearest 0·01 m^2.

2.5 Bills of Quantities — Items of work shall fully describe the materials and workmanship, and accurately represent the work to be executed.

2.6 Cuttings — All cuttings shall, unless otherwise stated, be held to include the consequent waste.

*Rules for rounding off numerical values (*revised*).

2.7 Mode of Measurement — All work shall be measured in square metres unless otherwise stated. Deductions for ends of dissimilar materials or other articles embedded shall not be made for areas not exceeding 0·1 m^2.

2.8 Expansion and dumy joints, and the filler shall be included in the description of item.

2.9 Work in repairs shall be so described and preparation of old surfaces to receive such work shall be included in the description.

2.10 Work in isolated areas not exceeding 1 m^2 each shall be so described stating the nature thereof.

2.11 Work to a pattern or in more than one colour shall be so described stating the nature thereof.

2.12 Curved work, conical work and spherical work shall be described separately stating the radius.

2.12.1 Labour in such works shall be so described and measured separately.

3. METHOD OF MEASUREMENT

3.1 Floor Idning — It shall be measured on the basis of finished surface measurement.

3.2 Drain Lining — It shall be measured as finished surface taking width as perimeter at the finished level.

3.3 Tanks with Caping — The method of measurement will be same as in **3.2.**

3.4 Tanks Without Caping — The method of measurement will be same as in **3.2.**

3.5 Rectangular Pedestals and Foundations — The work shall be measured based on finished surface taking width as perimeter of the finished surface.

3.6 Circular Pedestals or Foundations — It shall be measured based on the finished surface taking with at the finished circumference.

3.7 Concial Portions — The superficial area of each side shall be measured based on the dimensions at finished surface taking width as length of curved portion along curvature.

3.8 Hemispherical Area — The superficial area on the finished surface shall be taken, width being taken as perimeter of the finished surface.

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