

REVIEW ANALYSIS OF INDIAN STANDARD

(To be submitted to the Sectional Committee)

1. **Sectional Committee No. & Title:** CED 2 CEMENT AND CONCRETE SECTIONAL COMMITTEE , CED 2:2 sub-committee
2. **IS No:** IS 2502: 1963
3. **Title:** BENDING AND FIXING OF BARS FOR CONCRETE REINFORCEMENT - CODE OF PRACTICE
4. **Date of review:** 12 April 2021; 12 July 2021
5. **Review Analysis**

- i) **Status of standard(s), if any from which assistance had been drawn in the formulation of this IS.**

Standard (No. & Title)	Whether the standard has since been revised	Major changes	Action proposed
BS 1478-1948	Superseded by other standards		Refer BS 8666-2020
ACI 315-1951	Latest revised version ACI 315 – 2018		Refer ACI 315-2018

- ii) **Status of standards referred in the IS**

Referred standards (No. & Title)	IS No. of this standards since revised	Changes that are of affecting the standard under review	Action proposed
IS 1139: 1959 Hot Rolled Mild Steel and Medium Tensile Steel Deformed Bars for Concrete Reinforcement	(withdrawn)	Provisions merged in IS 1786	
IS: 1786-1961 Cold-Twisted Steel Bars for Concrete Reinforcement (fourth revision)	IS: 1786 : 2008, High Strength Deformed Steel Bars and Wires for Concrete reinforcement – Specification 4 th Revision, amendments 4),	More grades of steel bars added	Consider all grades and types of reinforcement bars for which IS specifications are published.

Referred standards (No. & Title)	IS No. of this standards since revised	Changes that are of affecting the standard under review	Action proposed
	IS 16651 : 2017, High Strength Deformed Stainless Steel Bars and Wires for Concrete Reinforcement – Specification.	This to be considered	--- “do” ---

iii) **Any other standards available related to the subject & scope of the standard being reviewed (International/regional/other national/association/consortia, etc. or of new or revision of existing Indian Standard)**

Standard (No. & Title)	Provisions that could be relevant while reviewing the IS	Action proposed
EN ISO 3799 - 2004 Construction drawings - Simplified representation of concrete reinforcement	This standard is widely adopted in Europe	IS 2502 should be aligned to this international standard as far as possible
BS 8666- 2020 Specification for scheduling, dimensioning, bending and cutting of steel reinforcement for concrete	Table 1 of BS 8666 is the modern version useful in present practice	Tables 3 to 9 should be replaced by standard Table 1 in BS 8666, with modifications in notations as per Indian practice, and as per ISO 3799.

iv) **Technical comments on the standard received, if any: NIL received.**

Source	Clause of IS	Comment	Action proposed
		NIL	

v) **Information available on technical developments that have taken place (on product / processes / practices / use or application / testing / input materials, etc.)**

NIL other than the latest versions of ISO, EN BS and ACI standards.

Source	Development	Relevant clause of the IS under review that is likely to be impacted (Clause & IS No.)	Action proposed

vi) Issues arising out of changes in any related IS or due to formulation of new Indian Standard

After revision, its reference to be included in IS 456, IS 3370 & few others.

Related IS and its Title (revised or new)	Provision in the IS under review that would be impacted & the clause no. or addition of new clause/provision	Changes that may be necessary in the Standards under review	Action proposed

vii) Any consequential changes to be considered in other IS

Related IS to get impacted	Requirements to be impacted
	NIL

6. Any other observation:

It is very old & outdated code, which is not being referred. Hence in practice standard bar-bending schedules are not used. Many construction companies are adopting the schedules as practiced in advanced countries, and in absence of a proper standard these schedules are modified. Company to company practice of preparing bar schedule differs. Hence, for the sake of standardization, the code should be revised to be in line with practices.

7. Recommendations:

No amendments were issued to this A5 sized standard, IS 2502. With changes as indicated based on the latest cross-referred standard, and details in ISO /BS /ACI standard, it is **proposed to revise IS 2502 comprehensively**, with the above recommendations, and initiate revision starting from P-draft stage.
