

**REVIEW ANALYSIS OF INDIAN STANDARD**

1. **Sectional Committee No. & Title: MTD 16 – Alloy Steels and Forgings**
2. **IS No: IS 6647**
3. **Title: Specification for Drill Pipes for Use in Oil or Natural Gas Wells**
4. **Date of review: 07 Sep 2021**
5. **Review Analysis**

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

<b>Standard (No. &amp; Title)</b>	<b>Whether the standard has since been revised</b>	<b>Major changes</b>	<b>Action proposed</b>
NIL	Nil	NIL	Nil

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

<b>Referred standards (No. &amp; Title)</b>	<b>IS No. of this standards since revised</b>	<b>Changes that are of affecting the standard under review</b>	<b>Action proposed</b>
IS 2:1960 (Rules for rounding off numerical values)	IS 2:1960	None	NA
IS 1387:1967 (General Requirements for the Supply of Metallurgical Materials)	IS 1387:1993	None	NA
IS 228(Various Parts)	IS 228 various parts	None	NA
IS 1894:1962 (Method for Tensile Testing of Steel Tubes)	IS 1608(Part 1):2018 (Metallic materials — Tensile testing: Part 1 Method of test at room temperature)	None (the basic infrastructure for mechanical tests on metallic products as per the revised standard i.e. the CRE type Tensile Testing Machine is widely	NA

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		used in the industry)	
IS 2328:1963(Method for Flattening Test on Steel Tubes)	IS 2328:2018 (Metallic materials - Tube - Flattening test)	None	NA
IS 1608:1972 (Method of tensile testing of steel products)	IS 1608 (Part 1):2018	None (the basic infrastructure for mechanical tests on metallic products as per the revised standard i.e. the CRE type Tensile Testing Machine is widely used in the industry)	NIL

**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)**

<b>Standard (No. &amp; Title)</b>	<b>Provisions that could be relevant while reviewing the IS</b>	<b>Action proposed</b>
NA	NA	NA

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

<b>Source</b>	<b>Clause of IS</b>	<b>Comment</b>	<b>Action proposed</b>
NIL	NIL	NIL	NIL

*Note: The standard was circulated for comments among some manufacturers/users of this product as per information collected from public domain and an industry association but no comments have been received.*

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

<b>Source</b>	<b>Development</b>	<b>Relevant clause of the IS under review that is likely to be impacted (Clause &amp; IS No.)</b>	<b>Action proposed</b>
Internet, ISO 11961, API SPEC 5DP	Steel Drill Pipes for Petroleum and Natural Gas Industry are being	Cl.3.,4 and Cl.6 of IS 6647:1972	

	<p>manufactured based upon the product specification levels. As per IS 6647, only seamless pipes of 2 grades i.e. Yst 517, Yst 379 are covered.</p> <p>However, as per the present global and industrial practice, drill pipes are being ordered and manufactured with upset pipe-body ends and weld-on tool joint ends in 6 grades i.e. D,E,F,G,S,X.</p> <p>Ordering Conditions to be specified are drill pipe dimensions and mass, upset type, dimensions of tool joint, hard bandings, threads, coatings etc. which are not a part of IS 6647.</p>		

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

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

**vii) Any consequential changes to be considered in other IS**

Related IS to get impacted	Requirements to be impacted
NIL	NIL

6. **Any other observation:** I could not find any evidence of any changes in the specification of CTC segments over the years in the literature or public domain. My attempts to reach out to manufacturers/users also remain unanswered. It is relevant to add that this product is under compulsory BIS certification but BIS has neither received any applications for grant of licence so far nor any suggestions for changes to the standard.

7. **Recommendations:** In view of the above, it is recommended that the technically equivalent ISO Standard i.e. IS 11961 be adopted as it caters to the present global manufacturing and trade practices for Steel Drill Pipes for the Oil and Natural Gas Industry.

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