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"जाने का अधिकार, जीने का अधिकार"
Mazdoor Kisan Shakti Sangathan
"The Right to Information, The Right to Live"

"पुराने को छोड़ नये के तरफ"
Jawaharlal Nehru
"Step Out From the Old to the New"

Indian Standard

BICYCLE — SEAT PILLARS — SPECIFICATION

(Third Revision)

ICS 43.150
FOREWORD

This Indian Standard (Third Revision) was adopted by Bureau of Indian Standards, after the draft finalized by the Bicycles Sectional Committee had been approved by the Transport Engineering Division Council.

This standard was first published in 1955 and subsequently revised in 1963 and 1979. The revision of this standard is being taken up to update the standard and to incorporate latest seat pillars being used in the bicycle industry.

The composition of the Committee responsible for the formulation of this standard is given in Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the results of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (revised)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.
Indian Standard

BICYCLE — SEAT PILLARS — SPECIFICATION

(Third Revision)

1 SCOPE

This standard specifies the material and dimensional requirements for seat pillars being fitted in popular sizes of bicycles in use in the country.

NOTE — This standard does not cover seat pillars made other than steel.

2 REFERENCES

The following standards contain provisions, which through reference in this text, constitute provisions of this standard. At the time of publication the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

<table>
<thead>
<tr>
<th>IS No.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1068 : 1993</td>
<td>Electroplated coatings of nickel plus chromium and copper plus nickel plus chromium — Specification (third revision)</td>
</tr>
<tr>
<td>1572 : 1986</td>
<td>Specification for electroplated coatings of cadmium on iron and steel (second revision)</td>
</tr>
<tr>
<td>1573 : 1986</td>
<td>Specification for electroplated coatings of zinc on iron and steel (second revision)</td>
</tr>
<tr>
<td>2039 (Parts 1 to 3) : 1991</td>
<td>Steel tubes for bicycle and cycle rickshaws — Specification (second revision)</td>
</tr>
<tr>
<td>10613 : 2004</td>
<td>Cycles — Safety requirements of bicycles (first revision)</td>
</tr>
<tr>
<td>15533 : 2004</td>
<td>Cycles — Safety requirements of bicycles for young children</td>
</tr>
</tbody>
</table>

3 MATERIAL

The tubes for the seat pillars shall conform to IS 2039 (Parts 1 to 3).

4 DIMENSIONS

4.1 The seat pillars shall conform to the dimensions given in Fig. 1, 2, 3 and 4. The dimensions and tolerances of tubes for seat pillars shall conform to IS 2039 (Parts 1 to 3).

4.2 The diameter of the portion where the seat clamp is to be fitted shall be 22.22 ± 0.12 mm as to allow a 22.22 mm clamp to be fitted without any play, shake or abnormal tightness.

4.3 Neck of the seat pillar shall be knurled other than non-necked seat pillars based on the agreement between the supplier and the customer.

4.4 Dimensions mentioned in this standard are reference illustration only. Final dimensions including thickness shall be arrived between the supplier and the customer.

5 FINISH

5.1 The seat pillars shall be finished smooth and enamelled or nickel chromium plated or cadmium plated or zinc plated or powder coated.

5.1.1 In the case of nickel chromium plating the electroplated coatings shall conform to Service Condition No. 1 (Classification No. Fe/Ni 10 b Crr) of IS 1068 with the proviso that p- or d-nickel and mc or mp-chromium may be substituted for b-nickel and r-chromium respectively.

5.1.2 In the case of cadmium plating the electroplated coatings shall conform to Service Grade No. 2 (Classification No. Fe/Cd 8) of IS 1572.

5.1.3 In case of zinc plating the electroplated coatings shall conform to Service Grade No. 2 (Classification No. Fe/Zn 7.5) of IS 1573.

5.1.4 In case of powder coating — bright/mat finish with thickness of 50 µ, Min shall be applied.

6 TESTING

Seat pillar shall comply with the testing requirements of IS 10613 or IS 15533 depending upon the type of bicycle application.

7 MARKING

7.1 Each seat pillar shall be marked with the following:

a) Manufacturer’s name, initials or trade-mark;

b) Country of manufacture;
c) Year and month of manufacture; and
d) Minimum insertion mark.

7.2 BIS Certification Marking

The seat pillar may also be marked with the Standard Mark.

7.2.1 The use of the Standard Mark is governed by the provisions of the Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The details of conditions under which the license for the use of Standard Mark may be granted to the manufacturers or producers may be obtained from the Bureau of Indian Standards.

All dimensions in millimetres.

FIG. 1 NECKED — STRAIGHT SEAT PILLAR

All dimensions in millimetres.

FIG. 2 STRAIGHT SEAT PILLAR
All dimensions in millimetres.

Fig. 3 Lay Back Seat Pillar

4A Seat Pillar with Back Rest
with Necked Seat Pillar

4B Seat Pillar with Back Rest
with Straight Seat Pillar

All dimensions in millimetres.

Fig. 4 Seat Pillar with Back Rest
ANNEX A
(Foreword)

COMMITEE COMPOSITION
Bicycles Sectional Committee, TED 16

Organization

Bicycle & Sewing Machines (R&D Centre), Ludhiana
All India Bicycle Manufacturers Association, New Delhi
Atlas Cycles (Haryana) Limited, Sonepat
Avon Cycles Ltd, Ludhiana
Avon Ispat & Power Limited (Rim Division), Ludhiana
Bhogal Sons (Regd), Ludhiana
Controllerate of Quality Assurance (Vehicles), Ahmednagar
Department of Industrial Policy & Promotion, New Delhi
Director of Industries, Ludhiana
Directorate General of Supplies and Disposals, New Delhi
Directorate of Industries, Government of Haryana, Chandigarh
Govind Rubber Ltd, Dist Ludhiana
Hamilton Industries Pvt Ltd, Ambarnath
Hartex Rubber Ltd, Hyderabad
Hero Cycles Ltd, Ludhiana
J. K. Cycles, Ludhiana
Kalar Cycle Industries, Ludhiana
Metro Tyres Limited, Ludhiana
Nova Bicycle Industries, Ludhiana
Office of the Development Commissioner (SSI), New Delhi
Raison (India) Limited, Ludhiana
T. I. Cycles of India, Chennai
United Cycle & Parts Manufacturers Association, Ludhiana
BIS Directorate General

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Member Secretary
Shri P. S. Murali
Scientist 'E' (TED), BIS

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Amendments Issued Since Publication

<table>
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<th>Amend No.</th>
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