

भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

Draft for comments only

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भारतीय मानक मसौदा

वस्त्रादि — पटसन धागे/ सुतली की पैकेजबंदी संहिता

(आई एस 14342 का पहला पुनरीक्षण)

Draft Indian Standard

Textiles — Jute Yarn—Packaging Code

(First Revision of IS 14342)

ICS: 59.080.20

Jute and Jute Products
Sectional Committee, TXD 03

Last date for receipt of comments is
30 March 2025

FOREWORD

(Formal clauses will be added later)

This standard was first published in 1996. This first revision has been made in the light of experience gained since its last revision and to incorporate the following changes:

- i) The terminology of hank has been updated.
- ii) The requirement of bale/truss covering has been updated.
- iii) References to Indian standards is updated.

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 test or analysis, shall be rounded off in accordance with IS 2:2022 'Rules for rounding off numerical values (*second revision*).’ 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

This standard prescribes procedure for packaging of jute yarn/twine in the form of truss or bale.

2 REFERENCES

The standards listed in Annex A 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 at Annex A.

<i>IS No.</i>	<i>Title</i>
IS 1029 : 1970	Specification for hot rolled steel strips (baling) (<i>first revision</i>)
IS 1670 : 1991	Textiles — Yarn — Determination of breaking load and elongation at break of shingle strand (<i>second revision</i>)
IS 2818 : 2015	Textiles — Hessian — Specification (<i>third revision</i>)

3 TERMINOLOGY

For the purpose of this standard, the following definitions shall apply.

3.1 Yarn

A continuous strand made from jute fibres twisted together.

3.2 Twine

A plied yarn made by twisting together two or more strands of yarn.

3.3 Hank

Jute yarn reeled as skein having circumference of 229 cm and weight 1000 g or as agreed between the buyer and the seller.

3.4 Spool

A package of yarn with a core as specified by the buyer.

3.5 Bundle

A package without covering or wrapping consisting of a number of hanks or spools suitably tied as specified.

3.6 Truss

A bundle of hanks or spools suitably covered or wrapped but neither hooped nor machine pressed

3.7 Bale

A rectangular or square shaped compressed rigid package containing jute yarn/twine in hanks suitably wrapped with bale covering with outer layer stitched and bound by metal hoops.

4 PACKING MATERIALS

4.1 Bale/Truss Covering

The jute fabric used for covering bale/truss shall be new, double warp sacking or hessian fabric having mass and breaking strength as under:

Sl No. (1)	Characteristics (2)	Requirement (3)	Method of Test (Ref to Cl of IS 9113 (4)
i)	Sacking		
	Average mass, g/m^2 , <i>Min</i>	523	8.5.1
	Average breaking load of sacking [revelled strip method. 10 cm \times 20 cm] <i>Min</i> , N (kgf):		8.6.1
	Warp	1120 (114)	-
	Weft	1325 (1325)	-
ii)	Hessian		
	Average mass, g/m^2 , <i>Min</i>	229	8.5.1
	Average breaking strength [revelled strip method. 10 cm \times 20 cm] <i>Min</i> , N (kgf):		8.6.1
	Warp	1020 (104)	-
	Weft	1100 (112)	-

However, jute fabric of construction conforming to IS 2818 or other Indian Standard may also be used if agreed to between the buyer and the seller.

4.2 Polyethylene Film

The minimum thickness of the polyethylene film used for covering the bundles of yarn/twine shall be 40 micron (23 g/m^2).

4.3 Sewing Twine

The twine used for stitching the bale/truss covering shall have a minimum breaking strength of 176 N irrespective of the number of plies (*see* also IS 1670).

4.4 Baling Strips (or Hoops)

The baling strips used for outside bounding of bales shall be new and of soft grade. The thickness and width of strips painted black shall be 1.63 mm and 25 mm respectively (*see* also IS 1029).

5 MAKE UP OF PACKAGES

5.1 Yarn

Two or specified number of yarn spools shall be packed in a polyethylene bag and eight such bags shall be put together to form one truss. In case-of jumbo spool, one spool shall be packed in a polyethylene bag instead of two.

5.2 Twine

5.2.1 Jute twine shall be made into a hank of a specified circumference of mass as specified by the buyer.

5.2.2 A number of such hanks shall be tied together with twine to make a bundle of mass as agreed to between the buyer and the seller.

5.2.3 Each bundle of twine shall be wrapped with polyethylene film.

5.2.4 The bundles of twine shall then be made into truss or bale as agreed to between the buyer and the seller.

5.3 All trusses or bales of one lot purporting to be of one specified type and quality shall contain the mass of yarn or twine as agreed to between the buyer and the seller.

6 REQUIREMENTS OF PACKAGES

6.1 The average moisture regain percent in a packed bale or truss shall not exceed 16 percent.

6.2 The bale or truss shall be completely covered on all sides with at least one layer of bale covering.

6.3 The loose ends of the bale covering shall be sewn with jute twine as prescribed in 4.3 in such a way that distance between stitches is about 8 cm on the sides and about 12 cm at the top and bottom of the bale.

6.4 The truss shall contain spools as specified by the buyer and shall not include any damaged or defective spool. Each truss shall be provided with loops or dog-ears for handling purpose.

6.5 The bale shall be securely bound with steel strips (hoops) (*see* 4.4) running at right angles to the length of the bale. The number of strips for each bale shall not be less than 3.

6.6 The bales shall be compressed suitably avoiding excessive pressure which may cause damage to twine.

7 MARKING

7.1 Unless otherwise agreed to between the buyer and the seller, the following information shall be stencilled on the truss or bale with an indelible ink of any suitable colour:

- a) Description of material,
- b) Net and gross mass of the yarn or twine in the truss or bale,
- c) Bale or truss number,
- d) Identification of source of manufacturer, and
- e) Any other information required by the buyer or by the law or regulations in force.

7.2 The trusses or bales shall be marked on two sides unless otherwise agreed to between the buyer and the seller.