

भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS

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भारतीय मानक मसौदा

वस्त्रादि — ऊन के होजरी धागे एवम सामान की अंतर्देशीय पैकेजिंग — रीति  
संहिता

( IS 3353 का पहला पुनरीक्षण )

(Draft Indian Standard)

TEXTILES — INLAND PACKING OF WOOL HOSIERY YARN AND  
GOODS — CODE OF PRACTICE

( First Revision of IS 3353 )

ICS 59.060.10, 59.080.20

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Hoisery Sectional Committee,  
TXD 10

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FOREWORD

*(Formal clauses will be added later)*

This standard was first published in 1966. This revision has been made in the light of experience gained since its publication and to incorporate the following major changes:

- a) Title of the standard has been modified; and
- b) BIS Certification Marking Clause has been updated

Packing plays a very important part in preventing damage in handling and in the safe transport of goods, their storage and marketing. Proper packing with materials of satisfactory quality protects

the goods from hazards of transit, provides for ease in handling and preserves the contents from infestation, contamination and other deterioration. This code gives details of inland packing of wool hosiery yarn and goods which would ensure adequate protection to the contents of packages.

Hosiery goods are often sent through post parcels, particularly when early delivery of goods is required. This code gives the details of packing hosiery goods in such cases also.

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**

**1.1** This code prescribes the method for packing wool hosiery yarn (for machine-knitting and hand-knitting) and goods for inland markets.

## **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 subjected to revision, and parties to agreements based on this standard are encourage to investigate the possibility of applying the most recent editions of these standards.

## **3 PACKING PROCEDURE**

In case the yarn or goods have not been given moth proofing treatment during manufacture, sprinkle each package of yarn or each piece with suitable insecticide to ensure protection against attack by insects.

### **3.1 Hosiery Yarn (Hanks) in Bales (for Machine-Knitting)**

**3.1.1** Make hanks of yarn into square or rectangular pressed bundles of 5 kg or 2.5 kg (*see Note*) each. Tie each bundle securely with cotton twine of suitable quality at least at three places at right angles to the length of the hanks. If desired, place pieces of cardboard of suitable size, one each on the top and at the bottom of the bundle. Wrap each bundle in kraft paper and tie it securely with cotton or jute twine of suitable quality.

NOTE — To facilitate identification, each bundle may also be marked with the following:

- a) Name of the material;
- b) Manufacturer's name, initials or trade-mark, if any;
- c) Count of yarn;
- d) Quality of wool, for example 56s; and
- e) Net weight of the bundle.

**3.1.2** Place a sufficient number of bundles (*see 3.1.3*) prepared in **3.1.1** on the table of a baling press over layers of packing materials listed in Table 1, arranging the layers in such a manner that when the bale is finally made up the material listed first forms the innermost layer and that listed last the outermost layer. Place similar layers of packing materials on the top of the bundles. The packing materials shall be in sound, clean and dry condition and shall be of sufficient size to cover the bundles with adequate overlaps on all sides.

**3.1.3** The gross weight of the bale shall not exceed 110 kg.

**3.1.4** Press the bale to make it sufficiently rigid so that it does not sag itself nor its contents slip.

**3.1.5** When the bale is still under pressure, sew (with approximately two stitches per decimeter) the layer of medium weight hessian around the bale with, two strands of three ply jute twine of adequate strength, taking care not to pierce the inner wrappings during sewing. Bind the bale at right angles on both sides with 0.9 mm thick and at least 20 mm wide new flat steel strips (or hoops) conforming to the requirements of 'medium' grade of IS 1029 so that:

- a) The strips nearest the edges of the bale are approximately 10 cm away from the respective edges;
- b) The other strips are equally spaced at approximately 15 cm from each other; and
- c) The strips are drawn taut, the two ends of each fastened by rivets or other suitable means and the joints so formed wrapped in pieces of hessian.

**TABLE 1 PACKING MATERIALS**  
(Clause 3.1.2, 3.2.2, 3.4.1.1, 3.4.2.1, 3.6.1 and 3.7.1)

Sl No.	Layer	Material	Conforming to
(1)	(2)	(3)	(4)
i)	Single	Kraft paper or Fents	Grade 2 of IS 1397  —
ii)	Single	Light weight hessian or Matting (CHATTAI) ( <i>see</i> Note 1)	Type II (229 g/m <sup>2</sup> ) of IS 2818  —

		or Fents	—
iii)	Single	Waterproof paper or Polyethylene film, (see Note 2)	Type I of IS1398  Grade 123 of IS 2508
iv)	Single	Tarpaulin (only during monsoon months)	Best trade quality
v)	single	Medium weight hessian	Type I (305 g/m <sup>2</sup> ) of IS 2818

### 3.2 Hosiery Yarn (Cones, Spools or Cheeses) in Cases (for Machine Knitting)

**3.2.1** Wrap each package with kraft paper. Alternatively, put each package in a polyethylene bag of suitable sizes, (see Note 1) Close the kraft paper or the polyethylene bag suitably.

#### NOTES

**1** As agreed to between the buyer and the seller, each package may also be packed in a cardboard box of suitable size.

**2** To facilitate identification, each package may be marked with the following:

- a) Name of the material;
- b) Manufacturer's name, initials or trade-mark, if any;
- c) Count of yarn; and
- d) Quality of wool, for example 56s.

**3.2.2** Place a sufficient number of such packages in a wooden packing case conforming to the requirements of Grade C, Style 3(b) of IS 1503 and lined with one layer of light weight hessian and one layer of polyethylene film so that the case is fully lined up, the polyethylene film forms the inner layer and the light weight hessian the outer one. The packing materials shall be of a size sufficient to fully cover the contents of the case. They shall be in sound, clean and dry condition and shall conform to the relevant requirements of Table 1 If necessary, stuff the voids in the case with paper cuttings to prevent undue movement of the contents.

**3.2.3** The gross weight of the case shall not exceed 125 kg.

**3.2.4** Fold neatly the layer of polyethylene film over the contents of the case to have adequate overlaps. Fold also the layer of light weight hessian over that of the polyethylene film. Stitch the ends of the hessian with two strands of jute twine of suitable quality. Nail securely the lid of the case Bind the case with 0.9 mm thick and at least 16 mm wide new flat steel strips (or hoops) conforming to the requirements of 'hard' grade of IS 1029, so that:

- a) At least one strip each is positioned at right angles to the length and width of the case, if the goods are meant for local market, or two strips each are positioned at right angles to

the length and the width of the case, if the goods are meant for dispatch to distant places by rail; and

- b) The strips are drawn taut and the ends of each fastened by rivets or other suitable means.

### **3.3 Yarn (Hanks or Balls) in Cases (for Hand-Knitting)**

**3.3.1** Place the required number of hanks or balls of similar quality, colour and size in a polyethylene bag so that the net weight of each bag is 0.25 kg in case of yarn 'of fine quality (*see* Note) and 0.5 kg in case of that of coarse quality. Close the opening of the polyethylene bag.

NOTE — For the purpose of this standard, yarns spun from 60s and above quality tops are held to be of fine quality and those from lower than 60s quality tops are held to be of coarse quality.

**3.3.2** Arrange 5 (in case of coarse quality) or 10 (in case of fine quality) such polyethylene bags in a cardboard box so that the total weight of the contents is 2.5 kg. Close the lid of the cardboard box suitably.

NOTE — To facilitate identification, each cardboard box may be marked with the following:

- a) Name of the material;
- b) Manufacturer's name, initials or trade-mark, if any;
- c) Count of yarn;
- d) Quality of wool, for example, 56s; and
- e) Net weight of yarn in a cardboard box.

**3.3.3** Follow the procedure prescribed in **3.2.2** to **3.2.4**.

### **3.4 Hosiery Goods in Bales**

#### **3.4.1 Fabric**

Make the fabric into rolls or bundles. Wrap each roll or bundle with kraft paper and tie it securely at two or three places with cotton or jute twine of suitable quality.

#### NOTES

**1** Rolls are prepared in case of fabrics of long continuous length.

**2** To facilitate identification, each bundle or roll may be marked with the following :

- a) Name of the material;
- b) Manufacturer's name, initials or trade-mark, if any;
- c) Net weight of roll or bundle; and
- d) Any other information desired by the buyer.

**3.4.1.1** Place properly a sufficient number of rolls or bundles (*see* **3.1.3**) prepared in **3.4.1** on the table of a baling press over layers of packing materials listed in Table 1 and follow the procedure prescribed in **3.1.4** and **3.1.5**.

NOTE — Different varieties of fabric should not be packed in a single bale.

### **3.4.2 Garments**

If the goods consist of items, such as socks and stockings, which are sold in pairs, fold the two units of the pair together. If the goods consist of other items, such as vests and jerseys, fold neatly each garment. Take a sufficient number of them and make a small bundle. Place pieces of cardboard of suitable size one each on the top and at the bottom of the bundle. Wrap each bundle in kraft paper and tie it securely with cotton or jute twine of suitable quality.

**3.4.2.1** Place a sufficient number of bundles (*see 3.1.3*) prepared in **3.4.2** on the table of a baling press over layers of packing materials listed in Table 1 and follow the procedure prescribed in **3.1.4** and **3.1.5**.

### **3.5 Hosiery Goods in Cases**

**3.5.1** If the goods consist of items, such as socks and stockings, which are sold in pairs, fold the two units of the pair together and place a number of such folded pairs in a cardboard box of a suitable size. If the goods, consist of other items, such as vests and jerseys, fold neatly each garment and place sufficient number of them in a suitable cardboard box. In case of fine varieties of hosiery garments, put each garment in a polyethylene bag and place a sufficient number of them in a cardboard box. Close the lid of the box suitably.

**3.5.2** Follow the procedure prescribed in **3.2.2** to **3.2.4**.

### **3.6 Hosiery Goods in Bundles (for Post Parcels)**

**3.6.1** If the goods consist of items, such as socks and stockings, which are sold in pairs, fold the two units of the pair together. If the goods consist of other items, such as vests and jerseys, fold neatly each garment. Arrange a number of folded items in the shape of a rectangular bundle and wrap it with kraft paper. Place pieces of cardboard of suitable size, one each, on the top and at the bottom of the bundle and tie it securely. Wrap the bundle with one layer of polyethylene film of adequate size and conforming to the requirements of Table 1 to fully cover the bundle with overlaps. Cover the bundle so wrapped with a layer of grey cotton cloth. Stitch (with approximately 5 stitches per centimeter) the cloth with cotton sewing thread of adequate strength, taking care not to pierce the inner wrapping during stitching. Seal the seams of the cloth with sealing wax, positioning the seals at distances not exceeding 10 cm from each other.

**3.6.1.1** The weight and the dimensions of packed bundles for post parcels shall not exceed the limit laid down by the postal authorities.

### **3.7 Hosiery Goods in Cardboard Boxes (for Post Parcels)**

**3.7.1** If the goods consist of items, such as socks and stockings, which are sold in pairs, fold the two units of the pair together. If the goods consist of other items, such as vests and jerseys, fold neatly each garment. Put a number of such folded items in a polyethylene bag of suitable size. In case of fine varieties of hosiery garments, put each garment in a polyethylene bag. Arrange a sufficient number of them in a suitable cardboard box. Wrap the cardboard box with a layer of waterproof paper or preferably with polyethylene film conforming to the requirements of Table 1. Cover the box so wrapped with a layer of grey cotton cloth. Stitch (with approximately 5 stitches per centimeter) the cloth with cotton sewing thread of adequate strength, taking care not to pierce the inner wrappings during stitching. Seal the seams of the cloth with sealing wax, positioning the seals at distances not exceeding 10 cm from each other.

**3.7.1.1** The weight and the dimensions of packed cardboard boxes for post parcel shall not exceed the limit laid down by the postal authorities.

## **4 MARKING**

**4.1** Bales, cases, bundles and cardboard boxes shall be marked on at least two opposite sides with indelible ink with the following information, leaving adequate space for marking by railway or postal authorities:

- a) Name and address of the consignee;
- b) Name and address of the sender;
- c) Description of the material;
- d) Gross weight;
- e) Net weight; and
- f) Any other information required by the buyer or under the law in force.

**4.2** In the case of bales and cases, all markings shall be stenciled, writing by hand being not permissible. The letters and figures shall be not less than 4 cm in height.

**4.2.1** For post parcels, however, the marking may be legibly written in hand. The letters and figures shall be not less than 1 cm in height.

**Annex A**  
(*Clause 2*)

**LIST OF REFERRED STANDARDS**

<i>IS No.</i>	<i>Title</i>
IS 1029 : 1970	Specification for hot-rolled steel strip (Baling) ( <i>First Revision</i> )
IS 1397 : 2020	Kraft Paper for Packing and Wrapping — Specification ( <i>Third Revision</i> )
IS 1398 : 1982	Specification for packing paper water Proof, Bitumen —Laminated ( <i>Second Revision</i> )
IS 1503 : 2023	Wooden Packing Cases - Specification ( <i>Fourth Revision</i> )
IS 2508 : 2016	Polyethylene films and sheets - Specification ( <i>Third Revision</i> )
IS 2818 : 2015	Textiles - Hessian - Specification ( <i>Third Revision</i> )