भारतीय मानक **IS 2158 : 2024**

Indian Standard

वस्त्रादि — हथकरघा निर्मित विस्कोस स्टेपल धागे की लुंगियाँ — विशिष्टि

(दूसरा पुनरीक्षण)

Textiles — Handloom Viscose Staple Fibre Lungies — Specification

(Second Revision)

ICS 59.080.30

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November 2024 **Price Group 6**

Handloom and Khadi Sectional Committee, TXD 08

FOREWORD

This Indian Standard (Second Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Handloom and Khadi Sectional Committee had been approved by the Textiles Division Council.

This standard was first published in 1962 and subsequently revised in 1991. The standard has again been revised to incorporate the following changes:

a) Marking clause has been modified;

b) References to standards have been updated;

c) Method of test for count of yarn along with its tolerance has been specified;

d) Test method for identification of material has been incorporated; and

e) Sampling clause has been modified.

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

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.

Indian Standard

TEXTILES — HANDLOOM VISCOSE STAPLE FIBRE LUNGIES — SPECIFICATION

(Second Revision)

1 SCOPE

1.1 This standard prescribes constructional particulars and other requirements for two varieties of handloom viscose staple fibre lungies.

1.2 This standard does not specify the general appearance, feel, finish, etc.

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 edition of these standards.

3 ATMOSPHERIC CONDITIONS FOR TESTING

Test specimens may be conditioned and tested in the prevailing atmosphere for determing the conformity of the cloth to this standard. However, in all cases of disputes, specimens shall be conditioned and tested in the standard atmosphere as specified in the Indian Standards referred on test methods.

4 MANUFACTURE

4.1 Yarn

The viscose staple fibre yarn used in manufacture of cloth shall be such that the cloth produced complies with the requirements of this standard.

4.2 The cloth shall be of plain weave and free from substances liable to cause subsequent tendering.

5 REQUIREMENTS

5.1 The cloth shall conform to the requirements specified in Table 1.

5.2 The cloth shall also conform to the requirements specified in Table 2.

5.3 Dimensions

Length and width of the lungies when determined in accordance with IS 1954 shall be as agreed to between the buyer and the seller or as declared by the seller subject to the tolerances specified in the Government of India, Ministry of Commerce and Industry Notification No. S. O. 2937 dated 20 September 1962 issued under *Trade and Merchandise Marks Act* 1958 (43 of 1958) (*see* Annex B).

5.4 In order to illustrate or specify the indeterminable characteristics, such as general appearance, lustre, feel and shade of the cloth, a sample has been agreed upon and sealed, the supply shall be in conformity with the sample in such respects.

The custody of the sealed sample shall be a matter of prior agreement between the buyer and the seller.

6 INSPECTION

6.1 The cloth when visually inspected should be free from the major flaws given in Annex C.

The number of permissible major flaws per piece shall be as agreed to between the buyer and the seller.

6.2 For details of the flaws mentioned in **6.1**, a reference may be made to IS 14466.

7 SAMPLING

7.1 The quantity of handloom viscose staple fibre lungies of the same variety delivered to a buyer against a despatch not shall constitute a lot.

7.2 To ascertain the conformity of the lot to the requirements of this standard, samples shall be drawn and inspected from each lot separately.

7.3 The number of pieces to be selected at random for inspection shall be in accordance with Table 3.

Table 1 Constructional Particulars and Breaking Load Requirements for Handloom Viscose Staple Fibre Lungies

(*Clause* 5.1)

Sl No.	**Variety No.**	**Count of Yarn (for guidance only) Universal Count (Cotton Count)**		**Ends/** dm	**Picks/** dm	**Mass** g/m^2	**Breaking Load** Newton	
		Warp	Weft				Warp	Weft
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
i)	1	15 tex × 2 (40s/2)	20 tex (30s)	213	220	110	392	275
ii)	2	15 tex × 2 (40s/2)	15 tex (40s)	200	200	95	294	245
Tolerance, Percent	—	± 5	± 5	± 5	± 5	± 5	- 5 on average value and - 15 on individual reading	
Method of Test, Ref to	—	IS 3442		IS 1963		IS 1964 or Annex D	IS 1969 (Part 1)	

Table 2 Other Requirements for Handloom Viscose Staple Fibre Lungies

(*Clause* 5.2)

Sl No.	**Characteristic**	**Requirement**	**Method of Test, Ref to**
(1)	(2)	(3)	(4)
i)	Dimensional change, percent, *Max*:		IS 1299
	a) Warp way	10	
	b) Weft way	4	
ii)	Scouring loss, percent, *Max*	2	IS 1383
iii)	Colour fastness to:		
	a) Light	5 or better	IS/ISO 105-B01 or IS/ISO 105-B02
	b) Washing test 1:		IS/ISO 105-C10
	1) Change in colour	4 or better	
	2) Staining on fabric	4 or better	
iv)	Fiber identification	100 percent viscose	IS 667

Table 3 Sample Size and Permissible Number of Non-Conforming Pieces

(*Clause* 7.3 *and* 7.4)

Sl No.	Lot Size	Sample Size	Permissible No. of Non-Conforming Pieces	Sub Sample Size
(1)	(2)	(3)	(4)	(5)
i)	Up to 90	5	0	3
ii)	91 to 150	8	0	3
iii)	151 to 500	13	1	5
iv)	501 to 1 200	20	1	5
v)	12 01 to 10 000	32	2	8
vi)	10 001 to 35 000	50	3	8
vii)	35 001 to 500 000	80	5	13
viii)	500 001 and above	125	7	13

7.4 Number of Tests and Criterion for Conformity

Sl No.	*Characteristic(s)*	*No. of Tests*	*Criterion for Conformity*
(1)	(2)	(3)	(4)
i)	Count, ends, picks, mass, length, width and visual inspection	According to co1 (3) of Table 3	Permissible number of non-conforming piece does not exceed the corresponding number given in co1 (4) of Table 3
ii)	Colour fastness, dimensional change, scouring loss, breaking load and fibre identification	According to co1 (5) of Table 3	All the test specimens meet the relevant requirements

8 MARKING

8.1 The lungie shall be suitably marked or labelled with the following information:

a) Name of the material;
b) Variety no.;
c) Manufacturer's name, initials or trade-mark;
d) Length and width;
e) Count of warp and weft yarn;
f) Indication of the source of manufacture; and
g) Other declarations required as per law in force.

8.2 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act*, 2016 and the Rules and Regulations framed thereunder, and the product may be marked with the Standard Mark.

9 PACKING

Unless otherwise agreed upon by the buyer and the seller the lungies shall be preferably packed in bales or cases in conformity with the procedure laid down in IS 1347 or IS 293.

ANNEX A

(*Clause* 2)

LIST OF REFERRED STANDARDS

IS No.	*Title*
IS/ISO 105-B01 : 2014	Textiles — Tests for colour fastness: Part B01 Colour fastness to light: Daylight
IS/ISO 105-B02 : 2014	Textiles — Tests for colour fastness: Part B02 Colour fastness to artificial light: Xenon arc fading lamp test
IS/ISO 105-C10 : 2006	Textiles — Tests for colour fastness: Part C10 Colour fastness to washing with soap or soap and soda
IS 293 : 1980	Code for seaworthy packaging of cotton yarn and cloth (*third revision*)
IS 667 : 1981	Methods for identification of textile fibres (*first revision*)
IS 1299 : 1984	Method for determination of dimension change on washing of fabrics woven from rayon and synthetic fibres (*second revision*)
IS 1347 : 1972	Inland packaging of cotton cloth and yarn (*first revision*)
IS 1383 : 2023	Methods for determination of scouring loss in grey and finished cotton textile materials (*second revision*)
IS 1954 : 2024/ ISO 2198 : 2006	Textiles — Fabrics — Determination of width and length (*third revision*)
IS 1963 : 1981	Methods for determination of threads per unit length in woven fabrics (*second revision*)
IS 1964 : 2001	Textiles — Methods for determination of mass per unit length and mass per unit area of fabrics (*second revision*)
IS 1969 (Part 1) : 2018/ ISO 13934-1 : 2013	Textiles — Tensile properties of fabrics: Part 1 Determination of maximum force and elongation at maximum force using the strip method (*fourth revision*)
IS 3442 : 2023	Textiles method for determination of crimp and linear density of yarn removed from fabric
IS 14466 : : 1997/ ISO 8498 : 1990	Fabrics — Description of defects — Vocabulary

ANNEX B

(*Clause* 5.3)

EXTRACTS FROM THE GOVERNMENT OF INDIA, MINISTRY OF COMMERCE AND INDUSTRY (*TRADE AND MERCHANDISE MARKS ACT*, 1958) NOTIFICATION NO. S. O. 2937, DATED 20 SEPTEMBER, 1962

B-1 A trade description of length of man-made fibre spun and, filament yarn pieces goods:

a) In pieces stamped as of length 10 metres and below the stamped length shall not be greater or less than the actual length by more than 2 percent; and

b) In pieces stamped as of length above 10 metres the stamped length shall not be greater or less than the actual length by more than 1 percent.

B-2 A trade description of width of man-made fibre spun and filament yarn piece goods:

In pieces stamped width shall not be greater or less than actual width at any point by more than 3 percent provided that the average width of the pieces in question is equal to or exceeds 98 percent of the stamped width.

ANNEX C

(*Clause* 6.1)

LIST OF MAJOR FLAWS

a) One or more ends missing in the body of the material throughout its length, more than three ends missing at a place and running over 60 cm, or prominently noticeable double end running throughout the piece;

b) Undressed snarls noticeable over a length exceeding 5 percent of the length of the piece;

c) Smash definitely rupturing the texture of the fabric;

d) Hole, cut or tear;

e) Reed marks prominently noticeable over a length exceeding 5 percent of the piece;

f) Defective or damaged selvedge noticeable over a length exceeding 5 percent of the length of the piece;

g) Skewing of weft;

h) Weft crack or two or more missing picks across the width of the fabric;

j) Warp or weft bar due to the difference in raw material, count, twist, lustre, colour, shade or spacing of adjacent groups of yarns (starting mark);

k) More than two adjacent ends running parallel, broken or missing and extending beyond 10 cm;

m) Noticeable warp or weft float in the body of the fabric;

n) Noticeable oil or other stain in the fabric;

p) Oily weft in the fabric;

q) Prominently noticeable slub;

r) Conspicuous broken pattern;

s) Gout due to foreign matter, usually lint or waste woven into the fabric;

t) Prominent selvedge defect;

u) Significant shading or listing in fabrics having a gradual change in tone or depth of shade of fabric (excluding selvedge or border running parallel to the selvedge);

w) Coloured flecks;

y) Blurred or dark patch;

z) Patchy, streaky or uneven dyeing;

aa) Dye bar; and

bb) Fuzzy appearance.

ANNEX D

(*Table* 1)

METHOD FOR DETERMINATION OF MASS OF FABRIC

D-1 Cut four specimens of 100 mm × 100 mm from a sample. Condition all the specimens in the desiccator charged with saturated solution of sodium nitrate at 27 °C ± 2 °C for a period of 24 h. Remove all the specimens from the desiccator and immediately determine their collective mass in weighing balance to the nearest milligram.

D-2 Calculate mass of fabric in g/m^2.

ANNEX E

(*Foreword*)

COMMITTEE COMPOSITION

Handloom and Khadi Sectional Committee, TXD 08

Organization	*Representative(s)*
Weavers Service Centre, Delhi	SHRI VISHESH NAUTIYAL (***Chairperson***) SHRI VIKAS KUMAR (*Alternate*)
Center of Excellence for Khadi (COEK)-NIFT, New Delhi	REPRESENTATIVE
Central Pollution Control Board, New Delhi	SHRI P. K. MISHRA SHRI RISHABH SRIVASTAV (*Alternate*)
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Department of Handlooms & Textiles, Chennai	SHRI THIRU R. RAGHUNATH SHRI THIRU K. MUNUSAMY (*Alternate*)
Fabindia, New Delhi	REPRESENTATIVE
Flag Foundation of India, New Delhi	SHRI ASHIM KOHLI
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Haryana Khadi Gramodyog Sangh, Karnal	SHRI PAWAN GARG SHRI R. S. YADAV (*Alternate*)
ICAR – Central Institute for Research on Cotton Technology, Mumbai (CIRCOT)	DR SUJATA SAXENA DR A. S. M. RAJA (*Alternate*)
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Indian Institute of Handloom Technology, Salem	DR P. THENNARASU
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Khadi Dyers & Printers, Mumbai	SHRI D. N. BHATT SHRI V. D. JOSHI (*Alternate*)

Organization	*Representative(s)*
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Kshetriya Khadi Gramodyog Samiti, Dausa	SHRI R. K. SINGH
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Ministries of Health, New Delhi	REPRESENTATIVE
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The Tamil Nadu Handloom Weavers Cooperative Society Ltd, Chennai	SHRI T. N. VENKATESH SHRI K. KATHIRESAN (*Alternate*)
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Member Secretary
SHRI SWAPNIL
SCIENTIST 'B'/ASSISTANT DIRECTOR
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