

केन्द्रीय मुहर विभाग-2

हमारा संदर्भ : के.मु.वि.-2/16: 3521

21 03 2018

विषय: आई एस 3521:1999 के संशोधन संख्या 1 & 2 का अनुपालन ।

सभी क्षेत्रीय/शाखा कार्यालयों से आग्रह किया जाता है कि उपरोक्त विषय से संबन्धित संलग्न परिपत्र का संज्ञान लें ।

(अदाने खरासी)
वैज्ञानिक सी

प्रतिलिपि: संलग्न

प्रमुख (सीएमडी-2)

सभी क्षेत्रीय/शाखा कार्यालयों को परिचालित

प्रतिलिपि : आई टी एस विभाग - बी आई एस इंटरनेट पर डालने हेतु

CENTRAL MARKS DEPARTMENT-2

Our ref: CMD-2/16: 3521

21 03 2018

Subject: Implementation of Amendment No. 1 & 2 to IS 3521:1999

This has reference to the subject stated above. ROs/BOs may kindly take note of the attached circular.

(Adane Khraasi)
Scientist-C

Copy: Enclosed

Head (CMD-2)

All ROs/BOs

Copy to: ITS for hosting on BIS Intranet.

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AMENDMENT NO. 1 MAY 2003
TO

IS 3521 : 1999 INDUSTRIAL SAFETY BELTS AND
HARNESSES — SPECIFICATION

(Third Revision)

(Page 1, clause 2) — Substitute 'IS 3203 : 1982 Methods of testing local thickness of electroplated coating (first revision)' for 'IS 4171 : 1983 Copper rods and bars for general engineering purposes (first revision)'.

(Page 1, clauses 3.3 and 3.4) — Delete and renumber the subsequent clauses.

(Page 3, clause 5.2.5, line 9) — Substitute 'plating or powder' for 'plating, powder'.

(Page 3, clause 5.2.5, line 12) — Substitute 'IS 3203' for 'IS 4171'.

(Page 8, clause B-2, Title) — Substitute the following for the existing:

'B-2 TESTS FOR CLASS D, CLASS E AND CLASS L'

(Page 8, clause B-2.1, line 1) — Substitute 'belts or harnesses' for 'belts harnesses'.

(Page 8, Table 2) — Substitute the existing table with the following:

Table 2 Free Fall Distance
(Clauses B-2.1 and D-4)

Sl No.	Class	Distance in m, Max
(1)	(2)	(3)
i)	D	1.8
ii)	E	0.6
iii)	L	0.6

(Page 9, clause B-3, Title) — Substitute 'CLASS P' for 'TYPE 4 LINEMAN POLESAFETY BELT'.

Amend No. 1 to IS 3521 : 1999

(Page 9, clause B-3.1) — Substitute the following for the existing:

B-3.1 Attach the safety belt or harness to the dummy as it would be worn by the worker. Secure the work positioning attachment element with a properly affixed rigid anchorage. Raise the dummy in an upright position until the axis of the work positioning attachment round the dummy and anchorage point are horizontal. Hold the dummy in position by a quick release device. After the release when the dummy has come to rest examine for any slippage, damage or other deterioration.

Table 2: Free Fall Distance
(Clause B-3.1.1)

Free Fall Distance (m)	Time (s)	Velocity (m/s)
0.5	0.32	3.13
1.0	0.45	4.50
1.5	0.56	5.48
2.0	0.64	6.26
2.5	0.71	6.88
3.0	0.77	7.35
3.5	0.83	7.68
4.0	0.88	7.87
4.5	0.93	7.96
5.0	0.98	7.99

(CHD 8)

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CENTRAL MARKS DEPARTMENT - II

Our Ref: CMD-II/16:3521

14 05 2004

Subject: Implementation of revised Indian Standard specification for Industrial Safety Belts and Harnesses and Amendment No. 1 as per IS 3521:1999 and the revised Scheme of Testing and Inspection Doc: STI/3521/5 April 2004

The revised Scheme of Testing and Inspection DOC: STI 3521/4 February 2001 due to revision of IS 3521:1989 to IS 3521:1991 was circulated for implementation w.e.f. 1 January 2001.

Difficulties were expressed by BO's in implementing the revised Standard due to anomalies in the existing standard. It was decided by the Competent Authority to keep the implementation of revised version of IS 3521:1999 and Scheme of Testing and Inspection STI Doc: 3521/4 February 2001 in abeyance till an amendment is issued by CHD.

CHD has issued an Amendment No. 1 (copy enclosed). Accordingly, Scheme of Testing and Inspection has been revised as Doc:STI 3521/5 April 2004 after incorporating Amendment No. 1. In order to implement IS 3521:1999 and revised Scheme of Testing and Inspection following procedure shall be adopted:

a) For existing licensee:

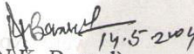
6. Concerned BO to verify the manufacturing capability and availability of testing equipments with the licensees and obtain the declaration on CMD/PF 305 & 306 if required. Factory testing/ independent testing depending upon nature of tests shall be carried out for all the requirements to ensure the conformity of the product to the revised standard.
7. Special inspection charges for the visit paid by BO for factory testing and verification of testing equipment, if any, shall be collected unless it is carried out along with periodic inspection.
8. Endorsement in the licence as per revised standard shall be made after verification visit by BO, ensuring conformity of the product to the revised standard and obtaining acceptance for revised STI.
9. Stoppage of marking shall be imposed in case sample fails on factory/independent testing and further actions are to be taken as per OM-98.
10. All action i.e. verification visits, factory testing as mentioned at 1) above may be completed by 29 June 2004.

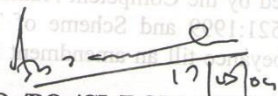
b) **For applicants:**

3. All new applications may be recorded and processed as per revised IS 3521:1999.
4. Both the version IS 3521 will run concurrently till 30.5.2004. Any licence granted during this period as per IS 3521:1989 ROs/BOs shall ensure that the applicants shall implement the revised standard IS 3521:1999 within the stipulated time and subject to verification of 1) above by 29 06 2004.

REVISED STANDARD IS 3521:1999 AND NEW STI DOC:STI/3521/5 April 2004 WILL BE EFFECTIVE FROM 30 June 2004.

All ROs/BOs are requested to take appropriate necessary action.


(N.K. Bansal)
JD(CMD-II)


D&H(CMD-II)
Circulated to all ROs/BOs/CL/ROL's/CMD-I

Encl: STI Doc: 3521/5 April 2004

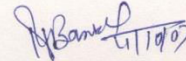
CENTRAL MARKS DEPARTMENT -II

Our Ref: CMD II/16:3521

04 10 2007

Subject: Implementation of Amendment No. 2 to IS 3521:1999

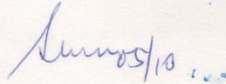
Amendment No. 2 has been issued to IS 3521:1999 Industrial Safety Belts and Harness – Specification (Third Revision). This Amendment does not call any modification in the existing STI, Document No. DOC: STI/3521/5 April 2004. Competent Authority has decided to implement this amendment w.e.f 31 October 2007.



(N.K. Bansal)
Joint Director CMD-II

Encl: As above

H (CMD-II)



Circulated to all ROs/BOs

Cc: CHD with a request to gazette w.e.f 31 October 2007.

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Circulated

AMENDMENT NO. 2 AUGUST 2007
TO
IS 3521 : 1999 INDUSTRIAL SAFETY BELTS AND
HARNESSES — SPECIFICATION

(Third Revision)

(Page 2, clause 5.1, para 1) — Substitute the following for the existing text:

‘The minimum width of all straps shall be 40 mm except shoulder retaining strap, which shall be of minimum width of 20 mm.’

(Page 8, Table 2, clause reference) — Substitute ‘Clause B-2.1’ for ‘Clauses B-2.1 and D-4’

(Page 9, Annex D) — Delete the subtitle ‘Dynamic Testing Drop Distances and Attachment Points for Fall Arresting Harness (Class A)’.

(Page 10, clause D-4) — Substitute the following for the existing text:

- a) Fit the articulated human dummy with the harness equipped with lanyard and without an energy absorber.
- b) Suspend the dummy by its upper attachment point and raise to an extent that the total free fall shall be of 4 m and the maximum horizontal distance from the central line shall be 300 mm. Hold it with the quick release device.
- c) Release the dummy without initial velocity, the feet first free fall being 4 m. Observe whether the harness releases the dummy. Also, observe the orientation of the dummy and measure angle between the longitudinal axis of the dorsal plane of the dummy and the vertical.
- d) Using same rope, repeat the test procedure within 15 ± 1 min suspended from its lower attachment point and achieve a head first free-fall of 4 m.’

(CHD 8)