



## केन्द्रीय मुहर विभाग - III

हमारा संदर्भ- केन्द्रीय मुहर विभाग-३/१६: भा.मा. 13774

03 फरवरी 2022

**विषय: अनुपालन हेतु गाइडलाइन**

सभी शाखा कार्यालयों से आग्रह है कि संलग्न गाइडलाइन का अनुपालन तत्काल प्रभाव से सुनिश्चित करें।

(राकेश कुमार)  
वैज्ञानिक 'डी' (के मु वि III)

**प्रमुख (के मु वि III)**

सभी क्षेत्रीय/शाखा कार्यालय

### **CENTRAL MARKS DEPARTMENT-III**

Our Ref: CMD-3/16: IS 13774

03 Feb 2022

**Subject: Guidelines for implementation of revised IS 13774: 2021/ IEC 60903: 2014- Live Working - Gloves of Insulating Material**

This has reference to the subject mentioned above.

BOs may kindly ensure implementation of the attached guidelines with immediate effect.

(Rakesh Kumar)  
Scientist D (CMD III)

**Head (CMD - III)**

Circulated to: All ROs/BOs

## CENTRAL MARKS DEPARTMENT III

Our Ref: CMD III/16: IS 13774

03 Feb 2022

### **Subject: Guidelines for implementation of Revised IS 13774: 2021/ IEC 60903: 2014 Live Working — Gloves of Insulating Material**

1. IS 13774: 2014/ IEC 60903: 2002 has been revised as IS 13774: 2021/ IEC 60903: 2014 and has been published. The last date for implementation of the revised Standard is 17 May 2022 after which the old Standard shall stand withdrawn.
2. All BOs shall inform the Applicants and Licensees under their jurisdiction about implementation of the revised Standard **within a week of issuance of these guidelines**.
3. The significant changes in the revised Standard as listed below is given for the purpose of general guidance. BOs shall ensure that the product conforms to all the requirements, as applicable, as per the revised Standard.
  - i. Guidance on the temperature range for which the gloves can be used has been given in Annex A (Cl 4.2)
  - ii. A new Category “F” has been introduced for gloves that are resistant to leakage current. Category F is for long gloves only. (Cl 4.2)
  - iii. Standard length of Long gloves has been defined for all classes (Cl 4.3.2). The requirements and tests for long gloves has also been laid down in subsequent clauses as applicable.
  - iv. Palm circumference corresponding to various sizes has been defined. (Cl 4.3.2)
  - v. Maximum thickness of Classes 1, 2, 3 & 4 of composite gloves, and maximum thickness of long gloves has been specified. (Cl 4.3.3)
  - vi. The standard now defines non-harmful physical irregularities. (Cl 4.3.4)
  - vii. Additional marking requirement for long gloves i.e. minimum marking distance from the cuff (Cl 4.6)
  - viii. removal of the requirement for an area to mark the date of inspection (Cl 4.6)
  - ix. Instructions for use are to be provided by the manufacturer (Cl 4.8)
  - x. Durability of marking test- additional test requirement added (Cl 5.3.2)
  - xi. Conditioning of test pieces in accordance with ISO 23529 before mechanical tests has been specified (Cl 5.5.1)
  - xii. The Standard also outlines alternative mechanical and electrical tests for gloves that are a part of regular production (Cl 5.5.2.2, Cl 5.5.3.2, Cl 5.5.4.2, Cl 5.6.2)
  - xiii. Requirement for resistance to mechanical puncture for insulating gloves i.e. other than composite- each of the two test pieces are to be punctured at a force greater than 18N/mm (as compared to the average force required earlier) (Cl 5.5.3.1)
  - xiv. Only AC dielectric tests can be carried to check the electric strength of the gloves (Cl 5.6). The d.c. electric tests are no longer included in the normative part of the document but a proof test is suggested at the production level in a new informative Annex E.
  - xv. Proof test voltage, proof test current and withstand test voltages have been specified for long gloves (Cl 5.6.1.4.2, Cl 5.6.1.4.3).
  - xvi. Test for resistance to leakage current is to be carried out for Category F gloves only instead of all long composite gloves as was required earlier (Cl 5.9.5).
  - xvii. Test for cutting resistance – formulae for calculation of result has been modified (Cl 5.10.2.3)
  - xviii. Introduction of a new normative Annex H on classification of defects and introduction of a new informative Annex I on the rationale for the classification of defects
  - xix. Kinematic Viscosity of Oil No. 1 required for test for oil resistance has been modified.

4. Out of the above, changes at iv, vii, ix, x, xi, xiii, xiv and xix warrant verification or testing. Verification and testing related to other changes would be required depending on the varieties covered in the scope of the Licence.
5. Consequent upon the issuance of the revised Standard, existing Product Manual has been revised as Doc: **PM/ IS 13774/ IEC 60903/ 2/ February 2022**. The salient changes in the revised product manual are as follows:
  - i. Under sample size, in case of textile lined gloves, after dipping process of same batch, six additional unlined special gloves are required for testing.
  - ii. The above modifications have also been included under parameters to be considered for grouping guidelines. Further, the following changes have also been made in the grouping guidelines:
    - a. To cover a range of classes of gloves, gloves of highest, lowest and an interim class shall be tested.
    - b. It has been specified that gloves of each category and each combination of categories shall be tested separately.
    - c. Lining of gloves has been introduced as a parameter and lined and unlined gloves to be considered as separate groups for which separate testing will be required.
  - iii. Scope of Licence has been modified to remove “Long composite” as a type and include “Long” with 800mm length. Special Category “F”, and additional Sizes of Gloves have been added. Provision of Non-standard lengths have been removed in line with the revised Standard. Also, combination of categories is to be specified in the scope, in case the same is to be given in a licence in line with the change brought in the Grouping Guidelines.
- iv. Changes in SIT:
  - a. “Length” and “lining” have also been made a factor in control unit.
  - b. Test for “Instructions for use”, Sampling tests for various electrical and mechanical tests (Tensile strength & Elongation at break; resistance to puncture; Tension set, Dielectric test), Leakage current resistance test for category F gloves have been added in the SIT.
  - c. Levels of Control have been modified for Sampling tests for Tensile strength & Elongation at break test, resistance to puncture, Tension set, Dielectric test, Thickness test, Dielectric type test, Ageing test, Low temperature test, Flame retardancy test, Tests for Special properties for applicable categories, Abrasion resistance test, Cutting resistance test and Tear resistance test as per the sampling guidelines given in the Indian Standard.
  - d. Test facilities for Low temperature test have been allowed to be sub-contracted as frequency is Every 30<sup>th</sup> Control Unit.
6. The guidelines for implementation of the revised Standard is given below:

**A. LICENSEES:**

- (i) All Licensees shall implement the revised Standard by 17 May 2022. Any difficulty in implementation shall be brought to the notice of CMD III at the earliest but in any case at

least 30 days before the last date of implementation. BOs shall ensure that no Licences are under operation as per the old Standard after 17 May 2022. The status of implementation of the revised Standard shall be confirmed by Head (BO) to CMD-III within two weeks of the last date of concurrent running.

- (ii) Verification of implementation of the revised Standard, wherever required, may be done during the next visit and may normally be completed **within one month from the date of submission of compliance by licensee or latest by three months from the last date of concurrent running.**
- (iii) **Scope of all licences shall be reviewed and revised as per revised Product Manual. Licensee shall submit the technical parameters (mentioned in para 1 of Grouping Guidelines) of each variety currently covered under their licence.** Based on this information submitted, scope of licence will be revised by BOs.
- (iv) If the Licensee fails to complete all actions by 17 May 2022 it shall be dealt with as per the prevailing guidelines.

**B. APPLICATIONS FOR GRANT OF LICENCE:**

- (i) Existing Applications where Sample has been submitted in the Laboratory/Test Report has been issued by the Laboratory May be processed as per the old Standard. However, if the Applicant is desirous of considering the Application as per the revised Standard, a declaration May be obtained from the Applicant to that effect and the Application May be processed accordingly. An undertaking shall also be obtained from such Applicants that if the sample fails in new test requirements, Licence will not be granted by BIS as per the old version.
- (ii) Applications which are recorded henceforth May be processed as per the old Standard or the revised Standard. Processing of Applications as per the old Standard shall be permitted only upto 17 May 2022 and for such cases Applicant shall give a declaration that they will implement the revised Standard by 17 May 2022.
- (iii) Beyond 17 May 2022 no Licence shall be granted as per the old Standard.

**C. CHANGE IN SCOPE OF LICENCE:**

- (i) For change in scope of licence, the relevant provisions as given above for Applicants shall apply.
- (ii) However, processing of such applications for change in scope of licence as per the old Standard shall be permitted only upto the date of implementation of the revised Standard or upto 17 May 2022 whichever is earlier.

7. The above guidelines come into force with immediate effect.

**(Rakesh Kumar)**  
**Sc D**

Head (CMD III)  
**DDG (Certification)**  
**Circulated to: All ROs/ BOs**