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*Draft Indian Standard*

**Explosive atmospheres – Part 39: Intrinsically safe systems  
with electronically controlled spark duration limitation**

Electrical Apparatus For Explosive Atmosphere  
Sectional Committee, ETD 22

Last date of receipt of comments:  
**25 March 2024**

**NATIONAL FOREWORD**

This draft Indian Standard which is identical with IEC TS 60079-39 “Explosive atmospheres – Part 39: Intrinsically safe systems with electronically controlled spark duration limitation” issued by the International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards on the recommendation of the Electrical Apparatus For Explosive Atmosphere Sectional Committee.

The text of IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this standard, reference appears to International Standards for which Indian Standards also exists. The corresponding Indian Standards, which are to be substituted, are listed below along with their degree of equivalence for the editions indicated:

| <i>International Standard</i>   | <i>Corresponding Indian Standard</i>   | <i>Degree of Equivalence</i> |
|---|--|------------------------------|
| IEC 60079-0, Explosive atmospheres - Part 0: Equipment - General requirements | IS/IEC 60079-0 : 2017, Explosive Atmospheres Part 0 Equipment — General Requirements (Third Revision ) | Identical                    |

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| IEC 60079-11, Explosive atmospheres – Part 11: Equipment protection by intrinsic safety "i"            | [Doc. ETD 22 (22394)WC Under preparation] IEC 60079-11:2023 (Ed. 7.0)  | Identical with IEC 60079-11:2023 (Ed. 7.0) |
| IEC 60079-14, Explosive atmospheres – Part 14: Electrical installations design, selection and erection | IS 16724 : 2018, Explosive atmospheres - Electrical installations design, selection and erection                 | Identical with IEC 60079-14 : 2013         |
| IEC 60079-25, Explosive atmospheres – Part 25: Intrinsically safe electrical systems                   | IS/IEC 60079-25 : 2020, Explosive atmospheres - Part 25: Intrinsically safe electrical systems (Second Revision) | Identical                                  |

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 of 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.

Note: The technical content of the document is not available on website. For details, please refer the corresponding IEC TS 60079-39:2015 or kindly contact:

Head  
 Electrotechnical Department  
 Bureau of Indian Standards 9, B.S. Zafar Marg,  
 New Delhi-110002  
 Email: [eetd@bis.gov.in](mailto:eetd@bis.gov.in)  
 Telephone: 011-23231192 / 8284