<u>Doc No. : LITD 16 (19783) WC</u> Draft IS/ISO/IEC 10373 (Part 6):2020 June 2022

BUREAU OF INDIAN STANDARDS DRAFT FOR COMMENTS ONLY

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Draft Indian Standard

Cards and Security Devices for Personal Identification -Test Methods - Part 6: Contactless Proximity Objects (First Revision)

मसौदा भारतीय मानक

व्यक्तिगत पहचान के लिए कार्ड और सुरक्षा उपकरण परीक्षण विधियाँ- भाग 6: संपर्क रहित प्राक्सिमिटी ऑबजेक्ट (पहला संशोधन)

ICS 35.240.15

LITD 16 Identification & Data Capture Techniques, Cards and Security Devices Sectional Committee

Last date for comments: 9 Aug 2022

NATIONAL FOREWORD

(Formal clauses will be added later)

This Draft Indian Standard (Part 6) which is identical with ISO/IEC 10373-6:2020 Cards and security devices for personal identification — Test methods — Part 6: 'Contactless proximity objects' was adopted by the Bureau of Indian Standards on the recommendation of the Identification & Data Capture Techniques, Cards and Security Devices Sectional Committee and approval of the Electronics and Information Technology Division Council.

This Standard (Part 6) was originally published in 2018 which was identical to ISO/IEC 10373-6: 2016. The first revision aligns this Indian Standard with ISO/IEC 10373 (Part 6): 2020.

The main changes compared to the previous edition are as follows:

- Enhancement of test methods for PCD load modulation reception and PICC transmission including introduction of Active Reference PICC and PICC amplitude and phase drift analysis tool;

- Introduction of PICC Type A Frame Delay Time (FDT) determination method;

- Extension of frame with error correction test methods.

A list of all the parts in the ISO/IEC 10373 series can be found on the ISO website. This Indian Standard is published in several parts. The other parts in this series are: Part 1 General characteristic tests Part 2 Cards with magnetic stripes Part 3 Integrated circuit cards with contacts and related interface devices Part 5 Optical memory cards Part 7 Vicinity cards Part 8 USB-ICC Part 9 Optical memory cards — Holographic recording method

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

- a) Wherever the words 'International Standard' appears 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 adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their places, are listed below along with their degree of equivalence for editions indicated:

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		54110 2022
International Standard	Corresponding Indian Standard	Degree of Equivalence
ISO/IEC 7810, Identification cards Physical characteristics	IS 14172 : 2021 Identification Cards Physical Characteristics	Identical with ISO/IEC 7810:2003

The technical committee has reviewed the provisions of the following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard:

International Standard	Title
ISO/IEC 14443-1:2018	Cards and security devices for personal identification —
	Contactless proximity objects — Part 1: Physical
	characteristics
ISO/IEC 14443-2:2020	Cards and security devices for personal identification —
	Contactless proximity objects — Part 2: Radio frequency
	power and signal interface
ISO/IEC 14443-3:2018	Cards and security devices for personal identification —
	Contactless proximity objects — Part 3: Initialization and anti-
	collision
ISO/IEC 14443-4:2018	Cards and security devices for personal identification —
	Contactless proximity objects — Part 4: Transmission
	protocol

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 2:1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

SCOPE OF ISO/IEC 10373-6:2020

The ISO/IEC 10373 series defines test methods for characteristics of identification cards according to the definition given in ISO/IEC 7810. Each test method is cross-referenced to one or more base standards, which can be ISO/IEC 7810 or one or more of the supplementary standards that define the information storage technologies employed in identification card applications.

NOTE 1 Criteria for acceptability do not form part of the ISO/IEC 10373 series, but can be found in the International Standards mentioned above.

This document defines test methods which are specific to proximity cards and objects, proximity coupling devices and proximity extended devices, defined in ISO/IEC 14443-1, ISO/IEC 14443-2, ISO/IEC 14443-3 and ISO/IEC 14443-4.

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NOTE 2 Test methods defined in this document are intended to be performed separately. A given proximity card or object, proximity coupling device or proximity extended device, is not required to pass through all the tests sequentially.

ISO/IEC 10373-1 defines test methods which are common to one or more integrated circuit card technologies and other parts in the ISO/IEC 10373 series deal with other technology-specific tests.

The conformance test plan defined in Annex O specifies the list of tests applicable for each part of the ISO/IEC 14443 series.

Note: - The Technical content of this document has not been enclosed as these are identical with the corresponding ISO/IEC Standard. For details please refer ISO/IEC 10373 (Part 6): 2020 or kindly contact.

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