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**Technical specification for authentication capability of RMB
cash authentication machines
(English Translation)**

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard was proposed by People's Bank of China Currency Bullion Bureau.

This Standard shall be under the jurisdiction of National Technical Committee on Finance of Standardization Administration of China (SAC/TC 180).

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Technical specification for authentication
capability of RMB cash authentication machines

1 Scope

This Standard specifies the technical requirements, test methods and inspection rules for authentication capability of RMB cash authentication machines.

This Standard is applicable to cash authentication machines with RMB authentication capability, including banknote authentication machine and coin authentication machine.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1 banknote

printed, circulating currency issued by the People's Bank of China and printed on the basis of specific substrates

2.2 coin

circulating currency issued by the People's Bank of China on the basis of metal or other synthetic materials

2.3 forged currency

counterfeit, altered currency

2.4 cash authentication machine

cash-based processing equipment with true and false authentication functions, including banknote identification machines and coin identification machines

2.5 banknote authentication machine

a cash machine for processing banknotes, including authentication machine processing batches of banknotes and authentication device processing single banknote

2.23 coin sample for specific test

a coin sample for one or more machine read anti-counterfeiting feature design, designed and produced by the People's Bank of China, used for the identification ability test of coin authentication machine

2.24 test coin counterfeit

a test forged coin collected, appraised and organized by the People's Bank of China, used for the identification ability test of coin authentication machine

2.25 coin sample for discriminating test

a set of test coins selected from samples for specific test and test counterfeit, used for tests of unread discrimination rate and misread discrimination rate of coin authentication machine

2.26 discriminating speed

the working speed of the cash machine when all authentication functions are turned on

2.27 unread discrimination rate

the ratio of the number that the device continues operating within a specified time, checks a specified number of banknote samples or coin samples, identifies the test banknote or the test coin as genius TO the actual inventory number of differential test samples or the number of coin samples for discriminating test

2.28 misread discrimination rate

the ratio of the number that the device continues operating within a specified time, checks a specified number of samples or coin samples, identifies true currency as forged currency TO the number of actual count of true currency

2.29 reject rate

that ratio of the number of banknote sample or coin sample that the device continues operating within a specified time, checks a specified number of samples or coin samples, is unable to provide identification results TO the number of actual inventory of test samples or test coins

2.30 serial number misread rate

the ratio of the number of misunderstood serial number characters TO the number of actual read characters

2.31 dimension

optical characteristics of the security thread or film generated during printing process of the banknotes

2.41 fine demetallized image

fine patterns and texts with hollow effect that are generated under the perspective conditions during printing process of the banknotes