

**RESERVE BANK OF INDIA**www.rbi.org.inwww.rbi.org.in/hindie-mail: helpprd@rbi.org.in

August 10, 2005

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Banknotes 2005 – 06 Series

Security features of banknotes are changed and / or updated periodically with the objective of staying ahead of the counterfeiters and to maintain confidence of the public in the Indian banknotes. The existing security features were reviewed and it has been decided to introduce banknotes with additional / new security features in a phased manner. The banknotes with additional / new security features will be issued in August, 2005, for Rs.50 and Rs.100 denominations followed by issuance of Rs.500 and Rs.1000 denominations in September, 2005. Rs.10 and Rs.20 denomination banknotes with additional / new security features will be issued in 2006.

The banknotes with additional / new security features will be of the same size and there is no change in the images/design of the banknotes both at the obverse and reverse. While some of the security features of the existing Mahatma Gandhi series have been retained, some have been modified and few new security features have been added.

The banknotes currently in circulation will also continue to be legal tenders.

Security Features in new Rs 50 denomination banknotes



Latent Image: On the obverse side of the banknote, a vertical band on the right side of the Mahatma Gandhi's portrait contains a latent image showing the denominational value 50. The latent image is visible only when the banknote is held horizontally at eye level.



Microlettering: This feature appears between the vertical band and the Mahatma Gandhi portrait. It contains the word 'RBI' and the denominational value (50) in microletters. This feature can be seen better under a magnifying glass.



Watermark: The watermark is a part of the CWBN paper and is visible by holding the banknote against light. The new banknote contains the portrait of Mahatma Gandhi with a light and shade effect and multi-directional lines.



Fluorescence: Number panels of the banknotes are printed in fluorescent ink. The banknotes have optical fibres. Both can be seen when the banknotes are seen under ultra-violet lamp.

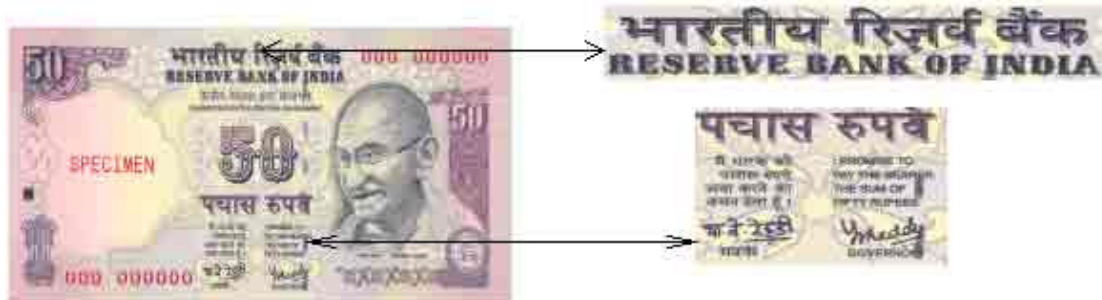
Paper: Banknote is printed on a special watermarked paper with substrate cotton and cotton rag. This gives the banknote a unique "feel" and crackling sound. The new banknote has paper with increased grammage of 90 GSM (± 3) and caliper thickness of 110 microns (± 5)

Security thread: The security thread appears on the left of the Mahatma Gandhi's portrait. The new banknotes have a machine readable windowed demetalised clear text magnetic 1.4mm wide security thread with inscriptions

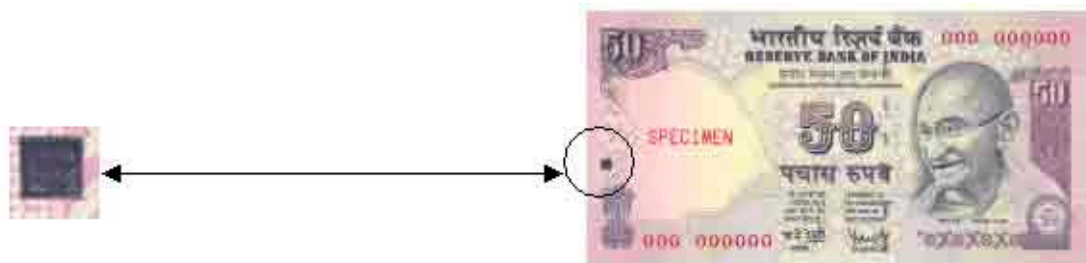
'Bharat' (in Hindi) and RBI. The thread fluoresces in yellow on both sides under U.V.light. The thread is visible as a continuous line from behind when held up against light.



Intaglio Printing: The portrait of Mahatma Gandhi, the Reserve Bank seal, Guarantee and Promise clause, Ashok Pillar Emblem on the left, RBI Governor's signature on the obverse of the banknotes are printed in intaglio, i.e., in raised prints, which can be felt by touch. The new banknotes will have raised intaglio printing with 130-micron depth in plate making stage.

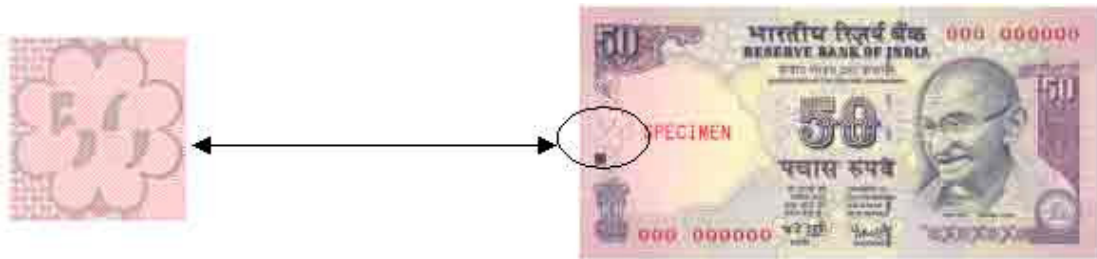


Identification mark: A square in intaglio on the left of the watermark window that helps the visually impaired to identify the denomination. To make the intaglio effect more prominent, the engraving depth has been increased from 83 microns to 160 microns.

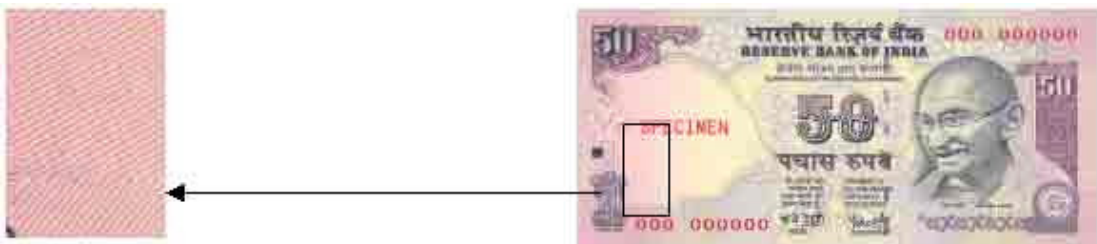


Dual coloured optical fibre: The optical fibres will be of dual colour and can be seen when the banknotes are seen under ultra-violet lamp.

See through Register: The small floral design printed both on the front (hollow) and back (filled up) of the banknote in the middle of the vertical band next to the watermark window has been modified.



Electrolyte Watermark: In addition to the Mahatma Gandhi watermark, the denominational numeral 50 appears vertically alongside Mahatma Gandhi portrait in the watermark window.



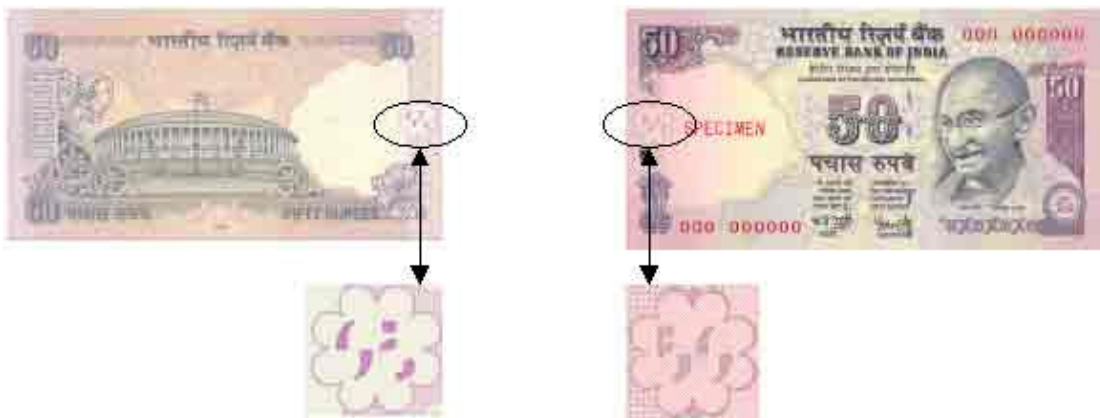
Year of printing: Year of printing appears on the reverse of the banknote.



Omron anti photocopying feature: A banknote with this feature, when copied by a colour photocopier, gives an output with a different colour shade. The feature appears on either side of the legend Reserve Bank of India on the obverse and in the left margin on the reverse.



Denomination numeral in see through Register: The new see through register is in the form of denominational numeral "50". Half of the numeral printed on the front and half on the back. Both the printed portions have an accurate back to back registration so that the numeral appears as one when seen against the light.



Security Features in new Rs.100 denomination banknotes



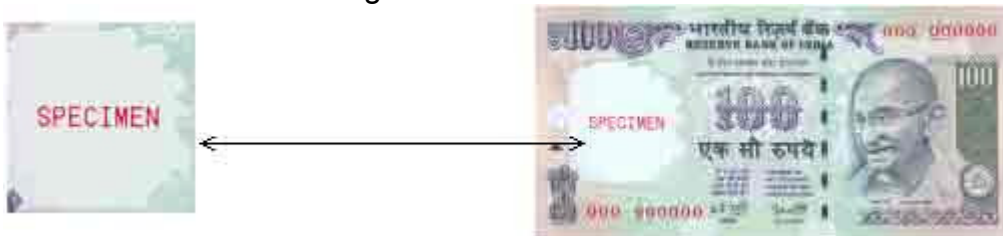
Latent Image: On the obverse side of the note, a vertical band on the right side of the Mahatma Gandhi's portrait contains a latent image showing the denominational value 100. The latent image is visible only when the note is held horizontally at eye level.



Microlettering: This feature appears between the vertical band and the Mahatma Gandhi portrait. It contains the word 'RBI' and the denominational value (100) in microletters. This feature can be seen better under a magnifying glass.



Watermark: The watermark is a part of the CWBN paper and is visible by holding the banknote against light. The new banknote contains the portrait of Mahatma Gandhi with a light and shade effect and multi-directional lines.



Fluorescence: Number panels of the banknotes are printed in fluorescent ink. The notes have optical fibres. Both can be seen when the banknotes are seen under ultra-violet lamp.

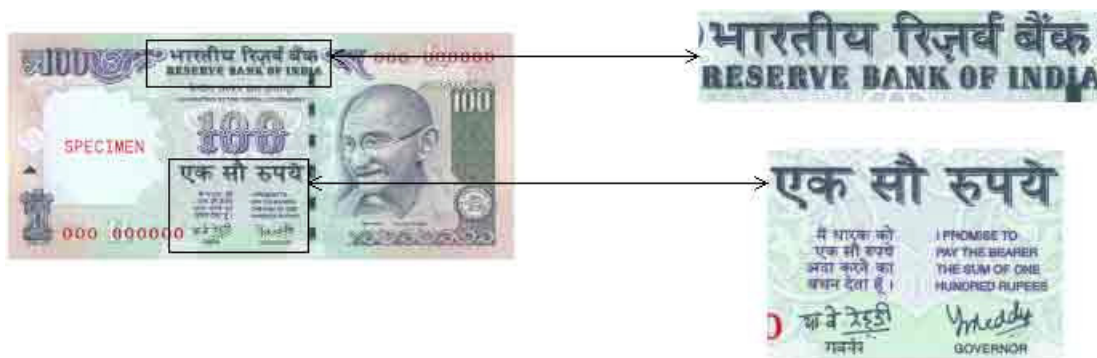
Paper: Banknote is printed on a special watermarked paper with substrate cotton and cotton rag. This gives the note a unique "feel" and crackling sound.

The new banknote has paper with increased grammage of 90 GSM (± 3) and caliper thickness of 110 microns (± 5)

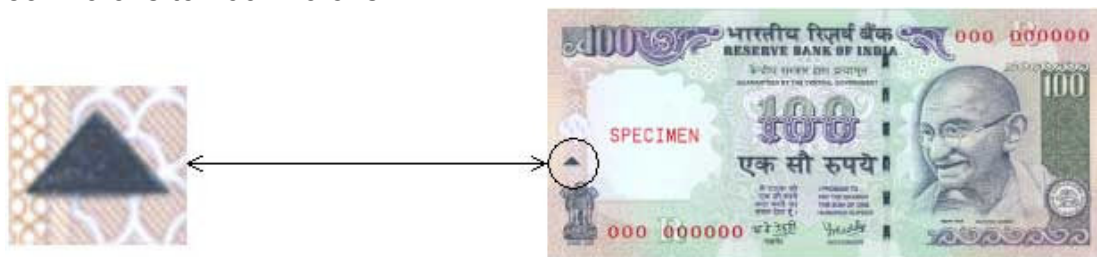
Security thread: The security thread appears on the left of the Mahatma Gandhi's portrait. The new banknotes have a machine readable windowed demetalised clear text magnetic 2 mm wide security thread with inscriptions 'Bharat' (in Hindi) and RBI with exclusive colour shift. Colour of the thread shall shift from green to blue when viewed from different angles. It will fluoresce in yellow on the reverse and the text will fluoresce on the obverse under UV light. The thread is visible as a continuous line from behind when held up against light.



Intaglio Printing: The portrait of Mahatma Gandhi, the Reserve Bank seal, Guarantee and Promise clause, Ashoka Pillar Emblem on the left, RBI Governor's signature on the obverse of the notes are printed in intaglio i.e. in raised prints, which can be felt by touch. The new banknotes will have raised intaglio printing with 130 micron depth in plate making stage.

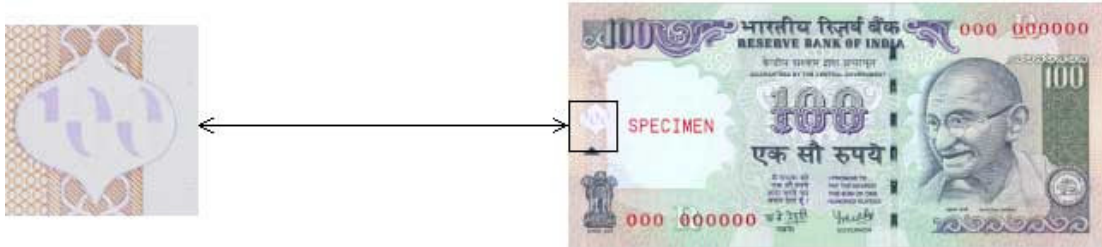


Identification mark: A triangle in intaglio on the left of the watermark window that helps the visually impaired to identify the denomination. To make the intaglio effect more prominent, the engraving depth has been increased from 83 microns to 160 microns.

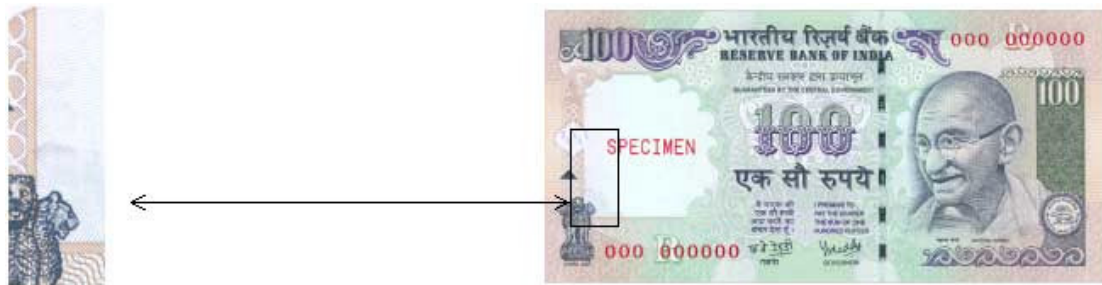


Dual Coloured optical fibre: The optical fibres will be of dual colour and can be seen when the banknotes are seen under ultra-violet lamp.

See through Register: The small floral design printed both on the front (hollow) and back (filled up) of the banknote in the middle of the vertical band next to the Watermark window has been modified.



Electrolyte Watermark: In addition to the Mahatma Gandhi watermark, the denominational numeral 100 appears vertically alongside Mahatma Gandhi portrait in the watermark window.

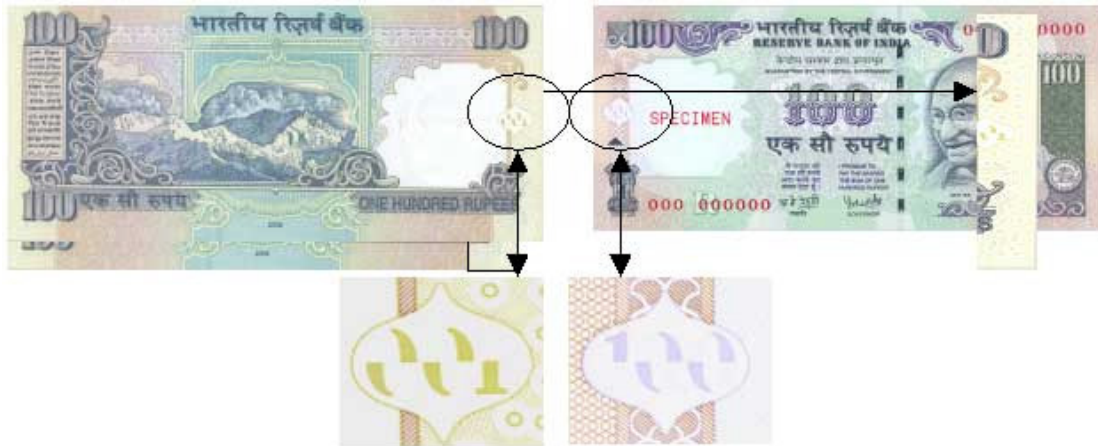


Year of printing: Year of printing appears on the reverse of the banknote.



Omron anti photocopying feature: A banknote with this feature, when copied by a colour photocopier, gives an output with a different colour shade. The feature appears on either side of the legend Reserve Bank of India on the obverse and in the left margin on the reverse.

Denomination numeral in see through Register : The new see through register is in the form of denominational numeral “ 100”. Half of the numeral printed on the front and half on the back. Both the printed portions have an accurate back to back registration so that the numeral appears as one when seen against the light.



G. Raghuraj
Deputy General Manager

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