

NATIONAL STOCK EXCHANGE OF INDIA LIMITED**DEPARTMENT : DEBT SEGMENT**

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All Members,

Two Factor Authentication

In order to enhance the security measures, the Exchange shall be implementing Two Factor Authentication (2FA) for user log in on NSE E-biding Platform (Nse-ebid) of Debt Segment.

The Two Factor Authentication shall be implemented w.e.f June 23, 2016 for Nse-ebid web application.

2FA setting for users of Nse-ebid shall be optional till June 29, 2016. During the optional period, users can choose to skip 2FA settings by clicking on 'Skip to Application' tab.

2FA settings shall be mandatory w.e.f June 30, 2016.

The salient features of 2FA are provided in Annexure-1 and procedure for setting 2FA and log in with 2FA setting is provided in Annexure-2

In case of queries kindly call on 1800 266 0053

For and on behalf of

National Stock Exchange of India Ltd**Khushal Shah**
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Annexure 1

Features of Two Factor Authentication

Setting up Two Factor authentications:

- 2FA shall be applicable for all users.
- The user shall have option to:
 - Provide some text (max 50 characters) & click 'Next'
 - OR
 - select an image from a set of pre-configured images & click 'Next'
 - OR
 - Both, provide text as well as select an image & click 'Next'
 - OR
 - Choose to skip both by clicking 'Next'
- On clicking 'Next', 10 questions shall be displayed
- The user shall be required to set answer for any 5 questions (case sensitive) mandatorily
- On clicking 'Save' 2FA shall be set

Two factor authentication during Login:

- On successful authentication of user id, if the user had set text and/or image the same shall be displayed to the user for authentication.
- User needs to click the "Ok" button in case the text and/or the image set by him are displayed correctly.
- The user shall be asked to answer 1 question out of the 5 questions for which the answers were set by him in addition to the password. The answers provided by the user shall be **case sensitive**.
- User shall get logged in successfully only on providing the correct answer.
- In case the answer provided is wrong then the user will be taken back to the log in screen.
- 3 successive incorrect answers will lead to suspension/locking of the user.

In case user is locked due to 2FA:

- User shall be given 3 attempts for 2FA
- User shall be locked in case he fails to provide correct answer in 3 successive attempts.
- User shall contact/request the Exchange to enable the user and clear the 2FA settings.
- On enablement by Exchange, the user shall be required to mandatorily set 2FA during next login.

Rest 2FA settings:

- Users can reset the answers to the question by going to "Security Settings" tab after login.
- User can also change or set text/image by going to "Security Settings" after login.

Annexure 2

Login procedure & 2FA setting procedure

1. Steps for setting 2FA for user

- Enter Participant User ID



The screenshot shows the NSE e-Bids login interface. At the top, it says "NSE e-Bids" and "FII Debt Limit Bidding & Allocation Platform". Below this is a background image of a computer keyboard and a mouse. In the foreground, there is a "Username" text input field and a blue "Next" button. Below the input field, there are two links: "Click here to download" in red and "Click here to check your browser compatibility" in blue. At the bottom, there is a small text: "For assistance, please call 26596205/8789".

- Enter the password



The screenshot shows the NSE e-Bids login interface. At the top, it says "NSE e-Bids" and "FII Debt Limit Bidding & Allocation Platform". Below this is a background image of a computer keyboard and a mouse. In the foreground, there is a "Password" text input field and two blue buttons: "Login" and "Back". Below the input field, there are two links: "Click here to download" in red and "Click here to check your browser compatibility" in blue. At the bottom, there is a small text: "For assistance, please call 26596205/8789".

As a part of user's 2FA setting, the user shall have option to provide some text (max 50 characters) and select an image from a set of pre-configured 6 images. Selection of image & entry of text is optional. Click 'Next' if the user has provided text or any image is selected.

During the optional period, the user can click on **Skip Application** to set the 2FA settings later on.



The screenshot shows the NSE e-Bids 2FA setup interface. At the top, it says "NSE e-Bids" and "FII Debt Limit Bidding & Allocation Platform". Below this is a grid of six images: a Rubik's cube, a landscape with a mountain, a close-up of a flower, a close-up of a leaf, a close-up of a tree, and a close-up of a tree. Below the grid is a "Secret Text" text input field and a blue "Next" button. Below the input field, there is a blue button labeled "Skip to application". At the bottom, there are two links: "Click here to download - New security settings" in red and "Click here to check your browser compatibility" in blue. At the very bottom, there is a small text: "For assistance, please call 26596205/8789".

Answer any 5 question out of 10 questions. The answers provided by user shall be case sensitive.

The screenshot shows the 'NSE e-Bids' registration page. The title is 'NSE e-Bids' with the subtitle 'Fill Debt Limit Bidding & Allocation Platform'. The form contains five questions: 'What is your pets name?', 'Who is your favourite actor or actress?', 'What is your favourite food?', 'What is your last school name?', and 'What is your favourite color?'. Each question has an 'Answer' input field. At the bottom, there are 'Back' and 'Save' buttons, a 'Skip to application' button, and a red link 'Click here to download'. Below the link, it says 'For assistance, please call 26596255/8789' and a blue link 'Click here to check your browser compatibility'.

2. Subsequent Log-in

Authenticate the image and text (if selected) at subsequent Login & click on OK

The screenshot shows the 'NSE e-Bids' verification screen. The title is 'NSE e-Bids' with the subtitle 'Fill Debt Limit Bidding & Allocation Platform'. It says 'Verification String:abcd'. Below this is a colorful image of a flower. At the bottom, there are 'OK' and 'Back' buttons, a red link 'Click here to download - New security settings. [New]', and the same assistance text and link as the registration page.The screenshot shows the 'NSE e-Bids' login screen. The title is 'NSE e-Bids' with the subtitle 'Fill Debt Limit Bidding & Allocation Platform'. It has a 'Password' input field, a 'What is your favourite food?' question with an 'Answer' input field, and 'Login' and 'Back' buttons. At the bottom, there is a red link 'Click here to download - New security settings. [New]', and the same assistance text and link as the registration page.

Enter password and answer the randomly showed 1 question at subsequent login. In case answers do not match it shall be treated as Login failure.

3 successive failed login attempts due to incorrect password or incorrect 2FA answers will lead to suspension/locking of the user.

3 In case User is locked due to 2FA

User ID will be locked for login in case he fails to provide correct answer for 3 successive attempts. User shall contact/request the Exchange to enable and clear the 2FA settings for the User ID, if it is locked due to 2FA.

4 Reset of 2FA settings

All users can reset the answers of the question or image/text set earlier for 2FA setting from the 'Security Settings' tab.



The screenshot displays the NSE e-Bids web application. At the top left is the NSE logo with the text 'NATIONAL STOCK EXCHANGE OF INDIA LIMITED'. To its right is the 'NSE e-Bids' title. Below these are navigation tabs: 'Home', 'My Bids', 'Bid', 'Auctions', and 'Reports'. A black arrow points to the 'Auctions' tab. Below the navigation bar is the 'My Bids' section, which contains a table with columns: 'Action No', 'Participant Code', 'Fill Code', 'Status', and 'Type'. Each column has a corresponding input field or dropdown menu. Below the table are buttons for 'Search', 'Modify Bid', 'Cancel Bid', 'Print', 'Show Filters' (with a checked checkbox), 'Upload Distribution', and 'Add Distributions'. At the bottom left of the section, there is a note: '* subject to individual limits'.