Annexure 2

Two Factor Authentication applicable from November 01, 2018

The Exchange had introduced Two Factor Authentication (2FA) setting for all users of EBP platform, which is currently optional for familiarization of market participants. The setting of 2FA shall be mandatory from November 01, 2018 for all users.

Features of Two Factor Authentication Setting up Two Factor authentication:

- 2FA shall be applicable for all types of users.
- The user shall have option to:
  - o Provide text (max 50 characters) & click "Next" OR
  - o select an image & click "Next" OR
  - o Both, provide text as well as select an image & click "Next" OR
  - o Choose to skip both by clicking "Next"
- On clicking "Next", 7 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 Participant's Admin User to enable the user and clear the 2FAsettings.
- On enablement by Participant's admin user, the user shall be required to mandatorily set 2FA during next login
- Participants can request the Exchange to enable and clear the 2FA settings for the Admin User ID, if it is locked due to 2FA.

Rest 2FA settings:
- Users can reset the answers to the question by going to "Security" tab after login
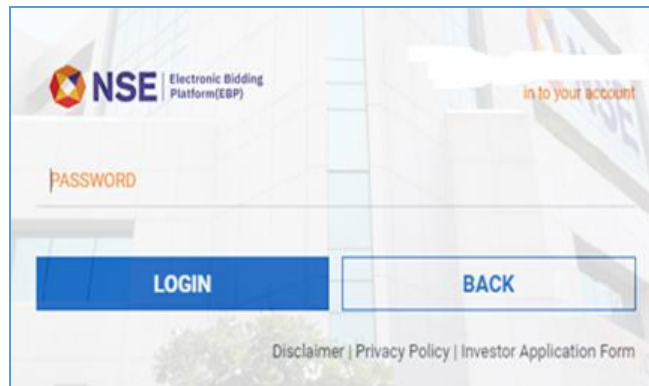- User can also change or set text/image by going to "Security" after login

Login procedure & 2FA setting procedure

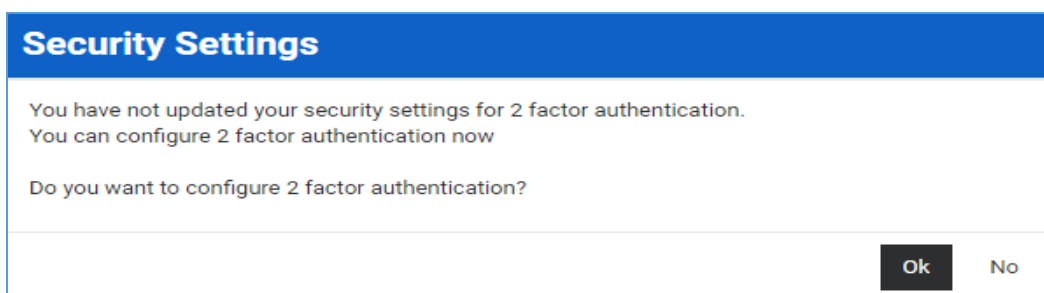**1. Steps for setting 2FA for user**

- Enter Participant ID & User ID

- Enter the password and click on login

- Following pop up will come to set 2FA, Click on Ok

As a part of user"s 2FA setting, the user shall have an **option** to provide text (max 50 characters) and select an image. Selection of image & entry of text is optional. During the optional period, the user can click on "**No**" to set the 2FA settings later on.

Security Settings

Following settings help in preventing you from fishing attacks. Every time you login we will present the secret verification text and image configured by you, thus allowing you to verify our servers.

Verfication Text (Any text)

Verfication Image

⬆ Upload   ✖ Clear

NEXT

Answer any 5 question out of 7 questions. The answers provided by user shall be case sensitive.

Security Settings

2 Factor authentication is an optional security measure in addition to the login id and password. During every login we will prompt a question to you randomly selected from the set of questions provided by you. You will be required to provide correct answer to that question.

Please answer minimum 1 question(s) out of a total of 7.

Q1   What is your last school name?
A1
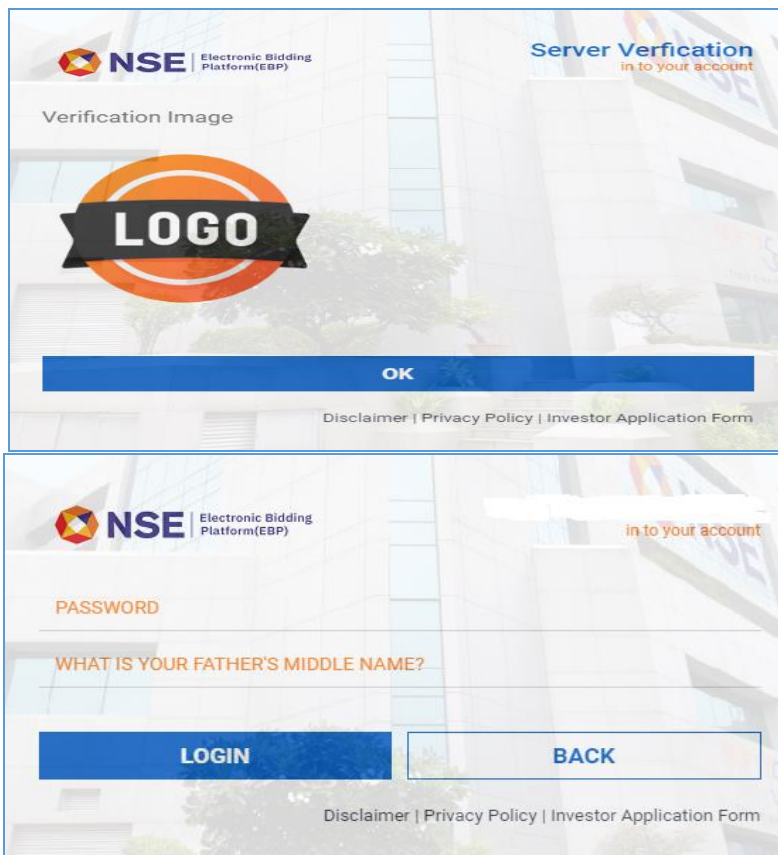
Q2   What is your father's middle name?
A2

UPDATE SECURITY SETTINGS

2 Subsequent Log-in

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

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.
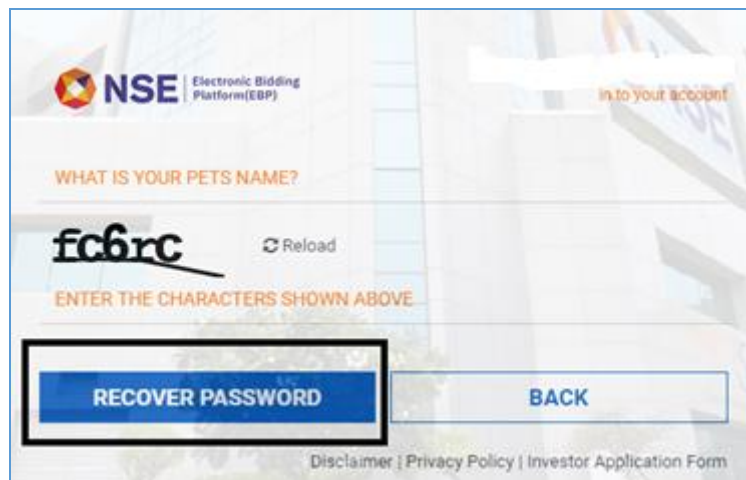
Participant can reset password or 2FA with facility provided on login page "Forget your password?" and "Forget 2FA?"
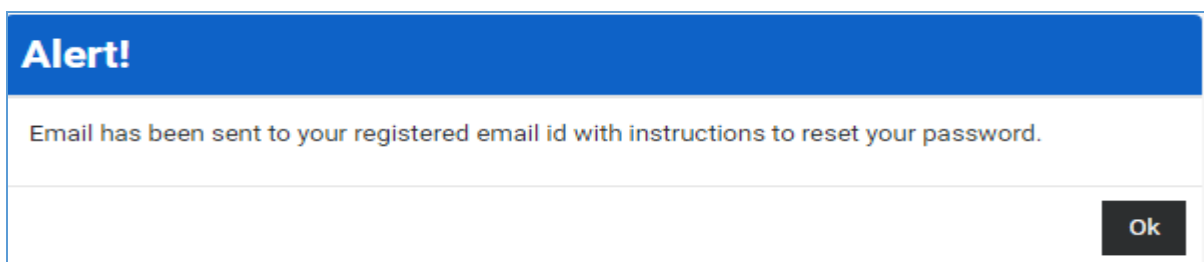
To reset password, participant need to know 2FA

Participant need to fill up required details and click on "Recover Password"

Following message will pop up

Participant will get one link on their registered email id to reset password. Following screen will appear, once click on the link.

Participant would fill up the details with new password and click on "Set password"

To reset 2FA participant need to know password

Participant need filling required details and click on "RESET 2FA"

Following message will pop up

Participant will get one link on their registered email id to reset 2FA setting. Following screen will appear once click on the link.
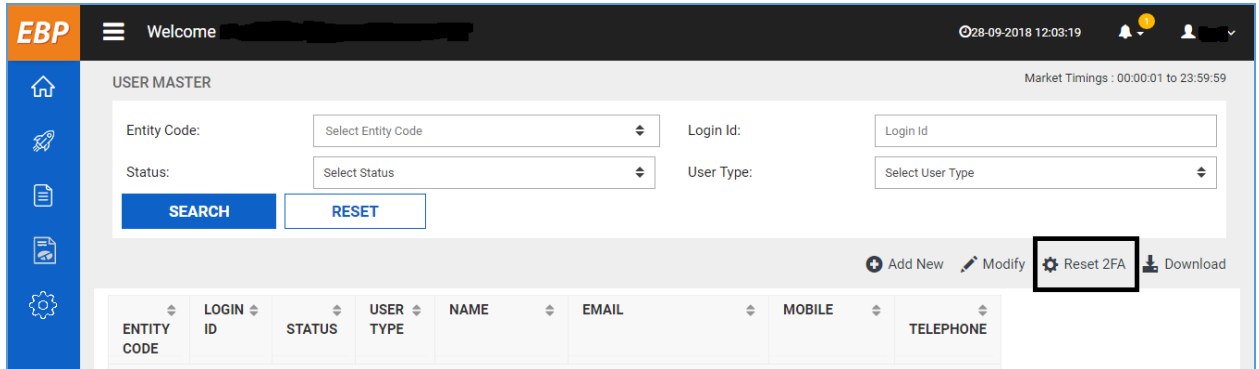

Participant would fill up the details and click on "Reset 2FA Settings"

3   In case User is locked due to 2FA

User will be locked from login in case he fails to provide correct answer for 3 successive attempts. Participant's Admin User can enable the blocked user and clear his 2FA settings from the option "Reset 2FA" available in **User Master'.**
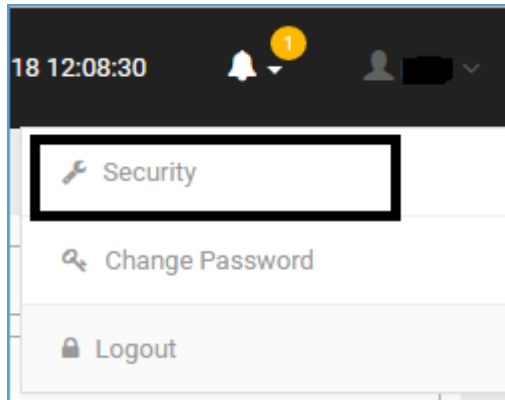
To clear the user 2FA settings, select the user and click on "Reset 2FA"

4   Reset of 2FA settings for User

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