



2- Factor Authentication in E-Invoice system and E-way Bill: Options, Steps and Importance.

To improve/ enhance the security of E-way bills/ E-invoice System, National Information Systems (NIC) has introduced 2- Factor Authentication to log into E-way bill and E-invoice portal System. In addition to username and password, OTP will also be generated for authentication for login.

❖ **What is Two-factor Authentication:-**

Two-factor Authentication (2FA), referred to as dual factor authentication or two-step verification, refers to a security process in which users provide two different authentication factors for verifying themselves.

It is implemented to protect both the user's credentials and the resources the user can access. After registering for two-factor authentication, the same can be used for the e-invoice system and e-way bill system.

❖ **Intention of 2FA:-**

- ⇒ Accessing E-invoice/ E-way bill systems more efficiently;
- ⇒ Ensuring a secure environment for accessing the E-way bill/ E-invoice systems.

❖ **Mode available for 2FA on portal:**

There are three different mode to received the OTP and will discussed in below:

1. **SMS:-**

- Your OTP will be sent to your registered cell phone number as a text message.

2. **Sandes App:-**

- It is messaging app which is provided by the Government so that you can send and received message. You can get OTP by downloading and installing this app on your registered cell number.

3. **NIC GST Shield App:-**

- It is mobile app, which provided by E-Way Bill/ E-invoice system and it is used to create an OTP.
- This app can be downloaded only from the E-Way bill/ E-invoice portal from the URL “ Main Menu 2 Factor Authentication Install NIC-GST Shield”
- Assessee need to follow steps to use the NIC-GST Shield mobile app:-



STEPS TO USE THE NIC- GSTSHILED MOBILE APP:

Download, install and register this app with their registered mobile number.

One must ensure that the time displayed in the NIC-GST-Shield app is in sync with the e-Invoice/ e-waybill system.

On opening this app, a one-time password is displayed. The assessee could enter this OTP and continue with the authentication process. Every 30 seconds, the OTP gets refreshed. The assessee doesn't require internet to generate the OTP on this app

NIC-GST-Shield

Instructions for Installing and using NIC-GST-Shield mobile app.

(Important note: This app is common for both e-Way bill and e-Invoice System and needs to be installed only on registered mobile number. Please create sub-users incase the system is used by multiple users of your GSTIN.)

Step 1: Download NIC-GST-Shield app on Mobile [Download Android version](#) [Download IOS version](#)

Step 2: Confirm Date and time on mobile **Current Date & Time : 22-04-2022 12:58:23**

I confirm that date and time displayed on the screen is in sync with my mobile device.

Step 3: Open NIC-GST-Shield app on your mobile , authenticate by entering username / password and OTP.

Step 4: Now Scan the QR Code shown below using NIC-GST-Shield.



Step 5: On successful scan of QR Code, OTP will be generated on the NIC-GST-Shield App.

Step 6: Now, enter this OTP in the box :

❖ **Steps for setting up two-factor authentication:-**

Step1:- Logging into the e-invoice system, the user needs to go to main menu.

Step 2:- The users need to select 2FA and confirm the registration.

Step 3:- Once Confirmed, the system will ask for a one-time password along with the username and password.



Register for 2 Factor Authentication(2FA).

You can opt for 2 Factor Authentication and receive the OTP in 3 ways

1. OTP will be sent to your Registered mobile number as SMS .
2. OTP will be sent to **Sandes App** installed on Registered mobile number. You may download the app using '**Install Sandes**' in the main menu.
3. OTP can be generated using **NIC-GST-Shield app** installed on Registered mobile number. You may install this app using '**Install NIC-GST-Shield**' in the main menu.

You may enter any of the OTP received and continue logging to e-Invoice/e-WayBill System

Do you wish to Register for SMS OTP based login ?



❖ **Is 2FA mandatory in e-invoicing?**

As of today, using two-factor authentication is not mandatory under [e-invoicing](#). However, it is likely to be mandatory soon, as the two-factor authentication is a much-needed measure, as per Tax Administrators, to provide a secure environment for working under GSTN.



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