

NDS OM - Web Application

Tutorial

Version No.: 1.0

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1. Introduction

NDS-OM presently supports indirect access (i.e., through the CSGL route) to various entities permitted by RBI viz. NBFCs, Provident Funds, Pension Funds, Mutual Funds, Insurance Companies, Cooperative Banks, Regional Rural Banks, Trusts, and Corporate. Such entities have to place their orders on NDS-OM through their Primary Member i.e. the NDS Member with whom they maintain their CSGL Gilt A/c.

To further enhance the access of such entities (herein after referred to as Clients) to NDS-OM, an internet based web application is provided to such constituents who can now have direct access to NDS –OM. NDS OM application for constituents will provide them access to view the OM market, can directly place bids and offers and view market information; view risk limits set for them along with the used and available limit balances.

Clients interested in having direct access to the NDS-OM Web Based Module should contact their Primary Members. Primary Member will approach NDS OM admin for creation of Clients. Once the Clients are created by the NDS OM Admin, the Primary Member Admin can create Users for the Client. The Client Users created by the Primary Member Admin have to be approved by the NDS OM Admin. Once approved, the Client User can login with the Login ID and Password provided to him by the Primary Member. The following type of users can access the NDS OM -web application:

- **Web Client (Transactional Users):** Transactional users of the client will be able to directly access and participate in the NDS-OM system.
- **Web Client (View Only Users):** View only users of the client will be allowed to only view the market and order details, but will not be allowed to participate in trading.

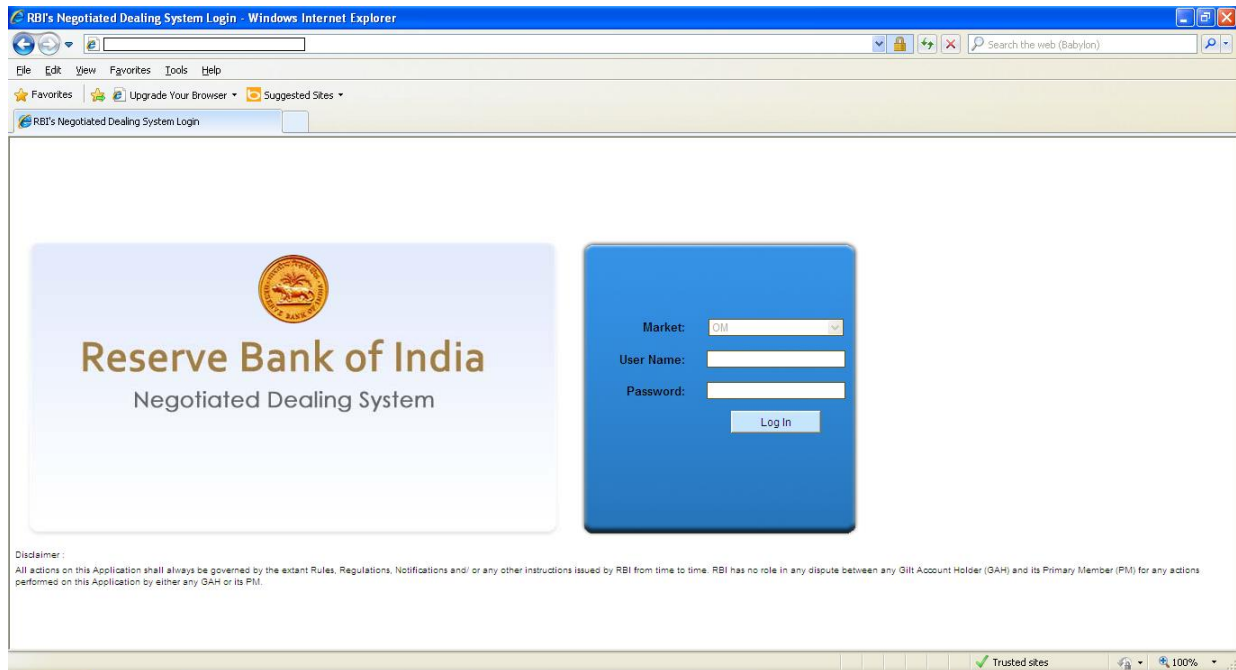
This document is the user guide for client users permitted by the Primary Member/RBI to directly access and participate in the NDS-OM system software application. This guide details the most common menus, menu items and their functionalities for user ease. It also outlines technical procedures for all the activities and processes built into this application.

The document describes in brief along with important screen shorts, the way the users can access and use the system. For a detailed User Manual, please get in touch with the Primary Member.

Note: We presume that the user has already gone through the FAQ's placed on the FAQ section of the RBI website

2. Logging into NDS OM –Web

1. Open a **Web Browser**.
2. ENTER the required **URL** (www.ndsind.com) it will display the following page.



3. Select the 'OM Market'
4. ENTER the **User Name** and **Password**
5. Click on **Login**.

3. Home Page

After successful login, the following home page will be displayed.

The screenshot shows the NDS OM web application interface. The browser address bar displays "https://www.ndsind-om.com/ - Negotiated Dealing System - Order Management - Windows Internet Explorer". The page header includes the Reserve Bank of India logo and "NDS-OM". The user is logged in as "TU01" and the date is "08-Jun-2012 11:22".

Annotations on the screenshot include:

- Main Menu Bar:** A horizontal bar containing "Order Management", "Market Queries", "Dealer Queries", "Risk Management", "Basic Data Queries", and "Settings".
- Sub Menu Bar:** A bar below the main menu with options: "Place Bid", "Place Offer", "Modify Order", "Cancel Order", and "Cancel All".
- Market Categories:** A bar with buttons for "CG", "SG", "TB", "OD", and "WI".
- Shortcut Icons:** A row of various application icons.
- Connectivity Icons:** Two green circular icons on the right side.
- Market Watch:** A large table displaying market data.
- Message Area:** A grey box at the bottom containing system messages.

Central Government		Bid				Offer				Trade		
Security	Maturity Date	Amount	Yield	Price	Price	Yield	Amount	LTP	LTY	LTA	TTA	Open
08.00 GS 2011	20-Jul-2011	-	-	-	-	-	-	-	-	-	-	-
06.10 UTI SPL 2011	23-Jul-2011	-	-	-	-	-	-	-	-	-	-	-
05.25 GS 2011 T	11-Sep-2011	-	-	-	-	-	-	-	-	-	-	-
05.25 GS 2011 TEST	11-Sep-2011	-	-	-	-	-	-	-	-	-	-	-
GOI FRB 2011 T	01-Oct-2011	-	-	-	-	-	-	-	-	-	-	-
GOI FRB 2010 T3	01-Oct-2011	-	-	-	-	-	-	-	-	-	-	-
08.61 GS 2011	01-Oct-2011	-	-	-	-	-	-	-	-	-	-	-
12.00 GS 2011	21-Oct-2011	-	-	-	-	-	-	-	-	-	-	-
05.48 GS 2011	30-Oct-2011	-	-	-	-	-	-	-	-	-	-	-
07.37 GS 2011 T6	01-Nov-2011	-	-	-	-	-	-	-	-	-	-	-
08.68 GS 2011	23-Nov-2011	-	-	-	-	-	-	-	-	-	-	-
08.66 GS 2011	24-Nov-2011	-	-	-	-	-	-	-	-	-	-	-
11.50 GS 2011 NOV	24-Nov-2011	-	-	-	-	-	-	-	-	-	-	-
08.55 GS 2011	25-Nov-2011	-	-	-	-	-	-	-	-	-	-	-
GOI FRB 2011K	26-Nov-2011	-	-	-	-	-	-	-	-	-	-	-

Message Area content:

Welcome to the NDS-OM Interactive System
Welcome to the NDS-OM Broadcast System

Client: TESTCLIN02
Last Successful Login Time: 07-Jun-2012 13:29:12
Last UnSuccessful Login Time: 25-May-2012 18:03:06

- **Main Menu Bar**
It includes following menus:
 - Order Management (visible to transactional users only)
 - Market Queries
 - User Queries
 - Risk Management
 - Basic Data Queries
 - Settings

4. Market Watch

Market Watch enables the User to continuously monitor the activities in the market. It gives real time information in terms of the best Bids and Offers for a security at any point of time. The Market Watch gets updated after every activity that is performed in a security. It can be customised according to the preferences of the User and after re-login of the user; the customised Market Watch is displayed.

There are individual market watches for CG, SG, TB, OD and WI. On login by default the CG Market Watch is displayed. The tab of the active Market Watch is highlighted in green colour and the User can easily toggle between different Market Watches.

The screenshot displays the Reserve Bank of India NDS-OM interface. At the top, it says "Reserve Bank of India NDS-OM" and "Welcome WEBCLIENT | Sign Out" with the date "13-Jun-2012 16:18". A navigation menu includes "Order Management", "Market Queries", "Dealer Queries", "Risk Management", "Basic Data Queries", and "Settings". Below the menu, there are tabs for "CG", "SG", "TB", "OD", and "WI", with "CG" being the active tab. The main content area shows a table of market data for Central Government securities, divided into Bid, Offer, and Trade sections. The table has columns for Security, Maturity Date, Amount, Yield, Price, LTP, and TTA. The row for "09.15 GS 2024" is highlighted in yellow, showing a bid price of 106.3100. At the bottom, there is a status bar with activity logs and login information.

Security	Maturity Date	Amount	Yield	Price	Price	Yield	Amount	LTP	LTY	LTA	TTA	Ope
07.40 GS 2035	09-Sep-2035	-	-	-	-	-	-	-	-	-	-	-
08.33 GS 2036	07-Jun-2036	-	-	-	-	-	-	-	-	-	-	-
06.83 GS 2039	19-Jan-2039	-	-	-	-	-	-	-	-	-	-	-
09.15 GS 2024	14-Nov-2024	# 5	8.3276	106.3100	-	-	-	-	-	-	-	-
08.30 GS 2040	02-Jul-2040	-	-	-	-	-	-	-	-	-	-	-
08.83 GS 2041	12-Dec-2041	-	-	-	-	-	-	-	-	-	-	-
08.07 GS 2017	15-Jan-2017	-	-	-	-	-	-	-	-	-	-	-
08.13 GS 2022	21-Sep-2022	5	8.2571	99.1100	-	-	-	99.1025	8.2581	5 T	95	98.

Activity Time : 16:18:26,Your Bid is Modified,Order Number : 201205160000045,Standard Security : 09.15 GS 2024,Price : Rs 106.3100,Yield (%) : 8.3276 ,Amount : 5.0000
Cr,Quantity Condition : All Or None,Time Condition : Day

Activity Time : 16:18:07,Your Bid is Modified,Order Number : 201205160000045,Standard Security : 09.15 GS 2024,Price : Rs 106.3000,Yield (%) : 8.3289 ,Amount : 5.0000

Client: CLIENTHEAD
Last Successful Login Time: 11-Jun-2012 17:24:12 Last UnSuccessful Login Time: 09-Jun-2012 18:50:51
Page: 23 of 59 Words: 5,240

5. Order Management

5.1. Place Bid/Offer

A user can place orders (Bid/Offer) in Regular (Standard Lots and ODD Lots) market. A User can place an order (Bid/offer) in any CG/SG/T-Bills Security available for trading on the system. Orders can be placed by:

1. Click on **Place Bid/F1/F2**.
2. **Place bid/offer** screen will open as shown in the screen below

The screenshot displays the Reserve Bank of India NDS-OM web application. The browser address bar shows <https://www.ndsind-om.com/#>. The page title is "Negotiated Dealing System - Order Management - Windows Internet Explorer". The user is logged in as "TU01" and the date is "08-Jun-2012 12:45".

The main navigation menu includes: Order Management, Market Queries, Dealer Queries, Risk Management, Basic Data Queries, and Settings. Below this, there are links for "Place Bid", "Place Offer", "Modify Order", "Cancel Order", and "Cancel All".

The central part of the screen shows a table with columns for Security, Maturity Date, Amount, Yield, Price, and Trade (LTP, LTY, LTA, TTA). The table lists three securities: GOI FRB 2011 (maturity 08-Aug-2011), 11.50 GS 2011 (maturity 09-Aug-2011), and GOI FRB 2009 T1 (maturity 18-Aug-2011).

The "Place Bid" form is open at the bottom. It includes the following fields and controls:

- Security:** A dropdown menu showing "GOI FRB 2011".
- Amount (FV Rs Cr):** A text input field.
- Price(Rs):** A text input field.
- Amount Type:** A dropdown menu set to "NORMAL".
- Disclosed Amount:** A text input field.
- Time condition:** A dropdown menu set to "DAY".
- Good Till Time:** A text input field showing "12 : 44".
- Order Type:** A dropdown menu set to "BID".
- Buttons:** "Yes" and "No" buttons.

At the bottom of the page, there is a status bar with the following information:

- Client: TESTCLIENT02
- Last Successful Login Time: 08-Jun-2012 11:07:51
- Last UnSuccessful Login Time: 25-May-2012 18:03:06

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3. ENTER the **Amount(FV Rs Cr)**. Enter the amount or the Face Value of Security to be bought or sold (In Rs. Crores). Thus, an amount of Rs. Ten crores is to be keyed into as 10, 10.0 or 10.00. An amount of Rs. 10,000 is to be entered as 0.0010.
4. ENTER the **Price(Rs)/ Yield (%)**. For CG/SG, this is the clean price at which User is willing to execute a Bid or an Offer in CG and SG in both the Regular market and Price Based When issued market. For TBs, this is the yield at which the User is willing to execute a Bid or an Offer in T-Bills in the Regular market and instruments available in Yield Based When issued market.
5. Chose the **Amount Type** from the drop –down.
 - a. **Normal**: By default the amount type will be Normal.
 - b. **Disclosed**: Disclosed Amount is the part of order amount (In Rs. Crores) which the User is willing to disclose to the market. This is an optional field.
 - c. **All or None (AON)**: By selecting this option, a User specifies that all of the order should be traded in full i.e. no partial trades, should be allowed. This is an optional field.
6. Chose the **Time Condition** from the drop –down.
 - a. **Day**: Under this time condition, order would remain valid throughout the validity of the trading session. It will be available for trade till session close.. By default Time Condition - Day is selected.

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- b. **IOC (Immediate or Cancel):** If a User wishes his order to be traded immediately, then he could select IOC. Under this condition, when an IOC order is paced, the order would seek for an immediate match, if found it results into a trade; else the IOC order would get cancelled.
 - c. **GTT (Good Till Time):** Here while placing an order, the User could mention the time up to which the order would be valid and available for trade. Once the User specified order expiry time has been reached the order would get cancelled.
- 7. Order Type will be populated automatically
 - 8. To place Bids click on **Yes** to close the screen click on **NO**.

5.2. Modify Order

Order modification is a function provided to modify an own existing passive (confirmed and unmatched) order in the order book. All the confirmed orders can be modified till the time they are not fully traded. Even partially traded orders can be modified for the amount which is not traded.

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1. Click on **Modify Order** under Order Management.
2. A window will pop up.
3. All outstanding orders are visible in this screen.
4. Select an order which you want to modify and then click on **Modify**.
5. Click on **Modify** to make changes.

The screenshot displays the 'Outstanding Orders' screen in the NDS OM web application. The interface includes a header for the Reserve Bank of India, a client user name (TU01), and a table of outstanding orders. A 'Modify Bid' pop-up window is open, allowing the user to edit the details of a selected order.

Outstanding Orders Table:

Security	Maturity	Amount FV Crs	AON	Amount Type	Disclosed Amount	Balance	Price	Yield	Type	Time Condition	GTT	Time Stamp	Order No	Category	Market	Sub Market	ISIN	Gen Sp
08.65 GS 2017 KO	29-Sep-2017	100.0000	-	Normal	-	100.0000	100.0000	8.6454	BUY	DAY	-	13:11:17	201107160000033	CG	REGULAR	STANDARD	ADAFASDASDAS	ADAFASD

Modify Bid Form:

Security: 08.65 GS 2017 KO | Amount (FV Rs Cr): 100.0000 | Price(Rs): 100.0000

Amount Type: NORMAL | Disclosed Amount: | Time condition: DAY | Good Till Time: 13:12 | Order Type: BID

Buttons: Modify, No

Activity Time : 13:11:17,Your Bid is Placed,Order Number : 201107160000033,Standard Security : 08.65 GS 2017 KO,Price : Rs 100.0000,Yield (%) : 8.6454 ,Amount : 100.0000 Cr,Quantity Condition : Normal,Time Condition : Day

Welcome to the NDS-OM Broadcast System

Client : TESTCLIENT02
Last Successful Login Time : 08-Jun-2012 12:33:50 | Last UnSuccessful Login Time : 25-May-2012 18:03:06

The following fields can be modified:

- Amount
- Price
- Amount Type
- Time Condition

(For details on order fields please refer to Place Bid/offer section)

6. To place the order click on **Modify** to close the screen click on **NO**.

5.3. Cancel Order

The user can cancel order from this screen. The order can be cancelled only till the market session is open. Order cancellation is a function provided to cancel an own existing passive (confirmed unmatched) order in the order book. All the confirmed orders can be cancelled till the time they are not

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fully traded. Partially traded orders can also be cancelled. A User has the option to cancel a particular order in a Security or all orders in a particular Security.

1. Click on Cancel Order under Order Management.
2. A window will pop up, which will display all the **outstanding orders**.

https://www.ndsind-om.com/# - Negotiated Dealing System - Order Management - Windows Internet Explorer

Reserve Bank of India

Welcome TU01 | Sign Out
08-Jun-2012 13:14

Outstanding Orders

Client User Name : TU01

Market	Sub Market	Category	Security	Order Type	Order Status	Client User
REGULAR	STANDARD	CG		ALL	ALL	SPECIFIC TU01_0

Security	Maturity	Amount FV Crs	AON	Amount Disclosed	Type	Balance	Price	Yield	Type	Time Condition	GTT	Time Stamp	Order No	Category	Market	Sub Market	ISIN	Gen Sp
08.65 GS	29-Sep-2017 KO 2017	100.0000	-	Normal	-	100.0000	100.0000	8.6454	BUY	DAY	-	13:11:17	201107160000033	CG	REGULAR	STANDARD	ADAFASDASDAS	ADAFASD

Total Bid Amount (FV Cr) :100.0000
Total Offer Amount (FV Cr) :-

Query Print Export Modify Cancel Cancel All Hold Hold All Release Release All Close

08.65 GS 2017 KO 29-Sep-2017 100 8.6454 100.0000 - - - - - - - - - -

Activity Time : 13:11:17,Your Bid is Placed,Order Number : 201107160000033,Standard Security : 08.65 GS 2017 KO,Price : Rs 100.0000,Yield (%) : 8.6454 ,Amount : 100.0000 Cr,Quantity Condition : Normal,Time Condition : Day

Welcome to the NDS-OM Broadcast System

Client : TESTCLIENT02
Last Successful Login Time : 08-Jun-2012 12:33:50 Last UnSuccessful Login Time : 25-May-2012 18:03:06

3. Select a particular order from the screen and then click on **Cancel**.
4. Click on **Cancel**, if you want to cancel a particular order.
5. If you click on **Cancel**, a pre confirmation pop up will be shown on the screen.
6. Clicking on **OK** will cancel the order if you click on **Cancel**, the order will not be cancelled.
7. On successful cancellation of the order a pop up will open displaying the order details of the order which is cancelled, click OK on it.

The User can also **Cancel All** orders from the Outstanding Orders screen by clicking on the **Cancel All** button.

5.4. Hold/Hold All Orders

The User can Hold/Hold All Outstanding orders including partially Traded orders if required. The orders which are put on hold are immediately withdrawn from the order book and are not available for trading.

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1. Click on Hold/Hold All Order under Order Management.
2. Select a particular order from the screen and then click on **Hold** or **Click Hold All**.
3. A pre confirmation pop up will be shown on the screen.
4. Clicking on **OK** will put the order or all orders on Hold. If you click on **Cancel**, the order(s) will not be put on hold.
5. The order(s) put on hold will be displayed in a different color.

The screenshot displays the Reserve Bank of India's Negotiated Dealing System - Order Management interface. The page title is "Reserve Bank of India" and the user is logged in as "WEBCLIENT" on "13-Jun-2012 18:01". The main section is titled "Outstanding Orders" and shows a table of orders with columns for Security, Maturity, Amount, AON, Type, Disclosed Amount, Balance, Price, Yield, Type, Time Condition, GTT, Time Stamp, Order No, Category, Market, Sub Market, ISIN, and Gen Spec. A dialog box titled "Message from webpage" is overlaid on the table, asking "Are you sure you want to Hold this order?" with "OK" and "Cancel" buttons. The table shows several orders for "09.15 GS 14-Nov-2024" with various amounts and yields. The total bid amount is 26.0000 and the total offer amount is also 26.0000. The bottom of the screen shows the Windows taskbar with the Start button and various application icons.

Security	Maturity	Amount FV Crs	AON	Type	Disclosed Amount	Balance	Price	Yield	Type	Time Condition	GTT	Time Stamp	Order No	Category	Market	Sub Market	ISIN	Gen Spec
09.15 GS	14-Nov-2024	10.0000	-	Normal	-	10.0000	106.3500	8.3226	BUY	DAY	-	18:02:03	201205160000050	CG	REGULAR	STANDARD	IN0020110048	IN0020110048
09.15 GS	14-Nov-2024	10.0000	-	Normal	-	10.0000							00049	CG	REGULAR	STANDARD	IN0020110048	IN0020110048
09.15 GS	14-Nov-2024	1.0000	-	Normal	-	1.0000							00047	CG	REGULAR	STANDARD	IN0020110048	IN0020110048
09.15 GS	14-Nov-2024	5.0000	#	AON	-	5.0000							00045	CG	REGULAR	STANDARD	IN0020110048	IN0020110048

Total Bid Amount (FV Cr) :26.0000
Total Offer Amount (FV Cr) :-

5.5. Release/Release All Orders

The User can Release/Release All Outstanding orders which have been put on hold. The orders which have been put by the Client Head cannot be released by the User. Orders on hold which are modified are automatically released.

1. Click on Release/Release All Order under Order Management.
2. Select a particular order from the screen and then click on **Release** or **Click Release All**.
3. A pre confirmation pop up will be shown on the screen.
4. Clicking on **OK** will release the order or all orders on Hold. If you click on **Cancel**, the order(s) will not be released.
5. The order(s) released will be displayed in the normal color.

The screenshot displays the 'Outstanding Orders' interface in the Reserve Bank of India's Negotiated Dealing System. The page title is 'Reserve Bank of India' and the user is identified as 'WEBCLIENT'. The interface includes a table of orders with columns for Security, Maturity, Amount, and Order details. A modal dialog box is open, asking 'Are you sure you want to Release this order?' with 'OK' and 'Cancel' buttons. The table below shows the following data:

Security	Maturity	Amount FV Crs	AON	Amount Type	Disclosed Amount	Balance	Price	Yield	Type	Time Condition	GTT	Time Stamp	Order No	Category	Market	Sub Market	ISIN	Gen Spec
09.15 GS	14-Nov-2024	10.0000	-	Normal	-	10.0000	106.3500	8.3226	BUY	DAY	-	17:58:12	201205160000050	CG	REGULAR	STANDARD	IN0020110048	IN0020110048
09.15 GS	14-Nov-2024	10.0000	-	Normal	-	10.0000							049	CG	REGULAR	STANDARD	IN0020110048	IN0020110048
09.15 GS	14-Nov-2024	1.0000	-	Normal	-	1.0000							047	CG	REGULAR	STANDARD	IN0020110048	IN0020110048
09.15 GS	14-Nov-2024	5.0000	#	AON	-	5.0000							045	CG	REGULAR	STANDARD	IN0020110048	IN0020110048

Summary statistics shown at the bottom of the table:

- Total Bid Amount (FV Cr) :26.0000
- Total Offer Amount (FV Cr) :-

The interface also includes a navigation bar with buttons for Query, Print, Export, Modify, Cancel, Cancel All, HOLD, HOLD All, Release, Release All, and Close. Activity logs at the bottom provide details on bid status and login times.

6. Market Queries

6.1. Market By Price

MBP displays the best Ten prices quoted along with the amount available at each price for CG, SG and When issued price based securities while the MBY displays the best Ten yields quoted along with the amount available for Treasury Bills and When Issued Yield Based security. Unlike the MBO, orders at the same price are aggregated in MBP/MBY. The accumulated orders are displayed with best price at the top. Best order is viewed from the market perspective. The MBP / MBY screen displays the details separately for Standard Lots, Odd Lots, When Issued Re issues and When Issued New Issues markets.

The screenshot shows the 'MARKET BY ORDER' window for the security '09.15 GS 2024' with a maturity date of '14-Nov-2024'. The window displays a table of bid orders with the following columns: Bid Amount, Bid Yield, Bid Price, Offer Price, Offer Yield, and Offer Amount. The total bid amount is 13 and the total offer amount is 185.0000.

Bid Amount	Bid Yield	Bid Price	Offer Price	Offer Yield	Offer Amount
10.0000	8.3226	106.3500	106.3500	8.3226	5.0000
5.0000	8.3226	106.3500	106.4000	8.3164	5.0000
5.0000	8.3239	106.3400	106.4000	8.3164	5.0000 #
5.0000	8.3251	106.3300	106.4000	8.3164	5.0000
5.0000	8.3264	106.3200	106.4100	8.3151	5.0000
5.0000	8.3276	106.3100	106.4200	8.3139	10.0000
5.0000	8.3276	106.3100	106.4300	8.3126	5.0000
5.0000	8.3289	106.3000	106.4400	8.3114	5.0000
5.0000	8.3301	106.2900	106.4400	8.3114	5.0000
5.0000	8.3314	106.2800	106.4400	8.3114	5.0000
Total	13	66.0000	Total	185.0000	15

Activity Time : 18:32:07,Your Bid is Placed,Order Number : 201205160000075,Standard Security : 09.15 GS 2024,Price : Rs 106.2600,Yield (%) : 8.3339 ,Amount : 5.0000
Cr,Quantity Condition : Normal,Time Condition : Day

Activity Time : 18:31:57,Your Bid is Placed,Order Number : 201205160000074,Standard Security : 09.15 GS 2024,Price : Rs 106.2700,Yield (%) : 8.3326 ,Amount : 5.0000

Client : CLIENTHEAD
Last Successful Login Time : 11-Jun-2012 17:24:12 Last UnSuccessful Login Time : 09-Jun-2012 18:50:51
Page: 239 of 498 Words: 61/45,074

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6.2. Market By Order

MBO enables the member to view the best Ten outstanding bids/offers available in the market arranged in the price / yield: time priority. Hence the orders with best price/yield are shown first. For orders with the same price/yield, the orders entered first are displayed first. There is no aggregation of order amounts as in Market by Price/Yield screen. The MBO screen displays the details separately for Standard Lots, Odd Lots, When Issued Price Based and When Issued Yield Based markets.

Reserve Bank of India
NDS-OM

Welcome **WEBCLIENT** | [Sign Out](#)
13-Jun-2012 18:31

08.13 GS 2022 89,4026 / 8.2584 / ITI 43.48

MARKET BY ORDER

Order Management | Market Queries | Dealer Queries | Risk

SD Security: 09.15 GS 2024 | Maturity: 14-Nov-2024 | 18:32

Outstanding Orders | Previous Trades | Activity Log | Net Funds Position

CG SG TB OD WI

Central Government Bid

Security	Maturity Date	Amount	Yield	Pr	Bid Amount	Bid Yield	Bid Price	Offer Price	Offer Yield	Offer Amount	Ope
07.40 GS 2035	09-Sep-2035	-	-	-	10.0000	8.3226	106.3500	106.3500	8.3226	5.0000	-
08.33 GS 2036	07-Jun-2036	-	-	-	5.0000	8.3226	106.3500	106.4000	8.3164	5.0000	-
06.83 GS 2039	19-Jan-2039	-	-	-	5.0000	8.3239	106.3400	106.4000	8.3164	5.0000	#
09.15 GS 2024	14-Nov-2024	15	8.3226	106	5.0000	8.3251	106.3300	106.4000	8.3164	5.0000	-
08.30 GS 2040	02-Jul-2040	-	-	-	5.0000	8.3264	106.3200	106.4100	8.3151	5.0000	-
08.83 GS 2041	12-Dec-2041	-	-	-	5.0000	8.3276	106.3100	106.4200	8.3139	10.0000	-
08.07 GS 2017	15-Jan-2017	-	-	-	5.0000	8.3289	106.3000	106.4400	8.3114	5.0000	-
08.13 GS 2022	21-Sep-2022	5	8.2571	95	5.0000	8.3301	106.2900	106.4400	8.3114	5.0000	-
					5.0000	8.3314	106.2800	106.4400	8.3114	5.0000	95
Total					13	66.0000		Total		185.0000	15

Activity Time : 18:32:07,Your Bid is Placed,Order Number : 201205160000075,Standard Security : 09.15 GS 2024,Price : Rs 106.2600,Yield (%): 8.3339 ,Amount : 5.0000
Cr,Quantity Condition : Normal,Time Condition : Day

Activity Time : 18:31:57,Your Bid is Placed,Order Number : 201205160000074,Standard Security : 09.15 GS 2024,Price : Rs 106.2700,Yield (%): 8.3326 ,Amount : 5.0000

Client: CLIENTHEAD

Last Successful Login Time : 11-Jun-2012 17:24:12 Last UnSuccessful Login Time : 09-Jun-2012 18:50:51

DUMMY MEMBER 32 Last Successful Login Time: 12-Jun-2012-16:07:09 Last Unsuccessful Login Time: 11-Jun-2012-12:35:55

06:32 PM

6.3. Market Inquiry

Market Inquiry screen will show the market details and best bid/offer for a security. Market Inquiry screen shows the market statistics and best order details at that point of time for the selected security.

1. Click on **Market Inquiry** from Market Queries submenu
2. A window will pop up.

SD	Security	GOI FRB 2033	Maturity	10-Jul-2033	16:00
Prev Close	100.3000 / 8.3996	Open	- / -	High	- / -
Low	- / -	LTR	- / -	Net Change	0.0000 / 0.0000
LTA	-	LTT	-	TTA	-
Bid	100.0000 / 8.4296	Bid Amt	100.0000	Total Bid Amt	100.0000
Offer	- / -	Offer Amt	-	Total Offer Amt	-

3. Select a security and click on **Query** to enquire about a security.
4. Click on **Close** to close the window.

6.4. Market Movement

This screen displays the details of selected Contract for every half an hour interval starting from beginning of the day like Bid order trade quantity and sell order trade quantity at the end of the interval, high price and low price in that interval etc.

1. Click on **Market Movement** from Market Queries submenu
2. A window will pop up.

Interval	Market	Sub Market	Security	Maturity Date	No Of Trades	TTA (FV Rs Crs)	Open Price/Yield	High Price/Yield	Low Price/Yield	Close Price/Yield	Weighted Average Price/Yield
11:30 - 12:00	Regular	Standard	10.00 GS 2020L	16-Mar-2020	-	-	- / -	- / -	- / -	- / -	- / -
12:00 - 12:30	Regular	Standard	10.00 GS 2020L	16-Mar-2020	-	-	- / -	- / -	- / -	- / -	- / -
12:30 - 13:00	Regular	Standard	10.00 GS 2020L	16-Mar-2020	2	10.0000	101.0000 / 9.8213	102.6300 / 9.5426	101.0000 / 9.8213	102.6300 / 9.5426	101.8150 / 9.6820
13:00 - 13:30	Regular	Standard	10.00 GS 2020L	16-Mar-2020	-	-	- / -	- / -	- / -	- / -	- / -
13:30 - 14:00	Regular	Standard	10.00 GS 2020L	16-Mar-2020	-	-	- / -	- / -	- / -	- / -	- / -
14:00 - 14:30	Regular	Standard	10.00 GS 2020L	16-Mar-2020	-	-	- / -	- / -	- / -	- / -	- / -
14:30 - 15:00	Regular	Standard	10.00 GS 2020L	16-Mar-2020	-	-	- / -	- / -	- / -	- / -	- / -
15:00 - 15:30	Regular	Standard	10.00 GS 2020L	16-Mar-2020	-	-	- / -	- / -	- / -	- / -	- / -
15:30 - 16:00	Regular	Standard	10.00 GS 2020L	16-Mar-2020	-	-	- / -	- / -	- / -	- / -	- / -
16:00 - 16:30	Regular	Standard	10.00 GS 2020L	16-Mar-2020	-	-	- / -	- / -	- / -	- / -	- / -

3. The user can filter the data based on **Market, Sub market, Category, Issue Type and Security**.
4. Click on **Print** to get a printout.
5. Click on **Export** to export to .CSV.
6. Select a security and click on **Query**.
7. Click on **Close** to close the window.

6.5. Trade Watch

This screen will display the market data with respect to trades such as total no. of trades, total traded amount, total traded amount across securities, total no. of trades across securities. The Trade Watch will show the trade details that have happened till that point of time along with subtotals.

1. Click on **Trade Watch** from Market Queries submenu
2. A window will pop up.

Market	Sub Market	Category	Issue Type	Security
REGULAR	ALL	ALL	ALL	

Security	Maturity	Trades	Total Trade Amount (FV Rs Cr)	Last Trade Price	Last Trade Yield	Last Trade Amount (FV Rs Cr)	G/T	Open	High	Low	WAP/WAY	Previous Close Rate	Previous Close Date
10.00 GS 2020L	16-Mar-2020	2	10.0000	102.6300	9.5426	5.0000	T	101.0000	102.6300	101.0000	101.8150	102.0000	12-Jul-2011
REGULAR-STANDARD LOT Total :		2	10.0000										
REGULAR-ODD LOT Total :		-	-										
WHEN ISSUED Total :		-	-										
Grand Total :		2	10.0000										

Query Print Export Close

3. The user can filter the data based on **Market, Sub market, Category, Issue Type and Security.**
4. Click on **Print** to get a printout.
5. Click on **Export** to export to .CSV.
6. Click on **Close** to close the window.

6.5. Ticker

Ticker displays the real time information of traded Securities in the market. It enables the Dealer to view the Last Traded Price, Yield, Time and the Taken/Given indicator for Security in the market. This is available on the main screen and is always visible in a scrolling bar.

There are two separate tickers. The first Ticker displays the trade information pertaining to Central Government securities in the Regular market and the instruments in When Issued market (both Price Based and Yield Based). The Ticker below this displays the trade information pertaining to State Government securities and Treasury Bills.

Trades concluded in the Odd Lots market are not displayed in the ticker

The details shown are as under:

- **Security ID:** The Security for which the market statistics are shown. For WI – Re issue securities the tag WR is padded and for WI – New Issue securities the tag WN is padded in the security ID.
- **Last Traded Price:** The price of the last trade for a particular Security. Will be displayed as zero in case of When Issued New Issues
- **Last Traded Yield:** The yield of the last trade for a particular Security.
- **Taken/ Given Indicator:** If Active Bid traded, (T) is displayed and if Active Offer traded, (G) is displayed.
- **Last Traded Time:** The trade time

7. Dealer Queries

Click on **Dealer Queries**, it will display the options under it.

7.1. Outstanding Orders

The User can view all the outstanding bids at single point of time in this screen. The user will also have a facility to modify, cancel bids and cancel all from this screen. **Print** and **Export** facility will also be available.

7. Click on **Outstanding Orders** and a window will pop up.

https://www.ndsind-om.com/# - Negotiated Dealing System - Order Management - Windows Internet Explorer

Welcome TU01 | Sign Out

Outstanding Orders

Client User Name : TU01

Market	Sub Market	Category	Security	Order Type	Order Status	Client User
REGULAR	STANDARD	CG		ALL	ALL	SPECIFIC

Security	Maturity	Amount FV Crs	AON	Amount Type	Disclosed Amount	Balance	Price	Yield	Type	Time Condition	GTT	Time Stamp	Order No	Category	Market	Sub Market	ISIN	Gen Spec
GOI FRB 2033	10-Jul-2033	100.0000	-	Normal	-	100.0000	100.0000	8.4296	BUY	DAY	-	13:25:28	201107160000040	CG	REGULAR	STANDARD	IN0010072031	IN0010072031
07.88 GS 2021	12-Dec-2021	100.0000	-	Normal	-	100.0000	100.0000	7.8776	BUY	DAY	-	13:25:13	201107160000039	CG	REGULAR	STANDARD	IN0012212021	IN0012212021

Total Bid Amount (FV Cr) :-200.0000
Total Offer Amount (FV Cr) :-

Query Print Export Modify Cancel Cancel All Hold Hold All Release Release All Close

Activity Time : 13:25:28,Your Bid is Placed,Order Number : 201107160000040,Standard Security : GOI FRB 2033,Price : Rs 100.0000,Yield (%): 8.4296 ,Amount : 100.0000 Cr,Quantity Condition : Normal,Time Condition : Day

Activity Time : 13:25:13,Your Bid is Placed,Order Number : 201107160000039,Standard Security : 07.88 GS 2021,Price : Rs 100.0000,Yield (%): 7.8776 ,Amount : 100.0000

Client : TESTCLIENT02
Last Successful Login Time : 08-Jun-2012 12:33:50 Last UnSuccessful Login Time : 25-May-2012 18:03:06

8. **Records** of the Order will be displayed in the window.

7.2. Previous Trades

The user can view the details of all the trades done by him for the day. The User can also print and export the details of the trades as well as the Deal Ticket.

1. Click on **Previous Trades** under **User Queries**.

The screenshot shows a web browser window titled "https://www.ndsind-om.com/ - NDSOM Previous Trades - Windows Internet Explorer". The main content area is titled "Previous Trades" and displays the following information:

Client User Name : TU01

Market	Sub Market	Category	Issue Type	Security	Order Type	Clie
REGULAR	ALL	ALL	ALL		ALL	SPECIFIC

Security	Maturity	Settlement Date	Trade Type	Trade Amount FV (Cr)	Trade Price	Trade Yield (Rs)	Trade Value	Accrued Interest	Consideration	Constituent Name	Trade No	Order No	Trd Tin
10.00 GOVT. STOCK 2020	16-Mar-2020	09-Jun-2012	B	5.00000	102.6300	9.5426	5,13,15,000.00	16,94,444.44	5,30,09,444.44	TESTCLIENT02	201107160000002	201107160000022	12:

Total Bid Trade Amount (FV Cr) : 5.0000 Total Offer Trade Amount (FV Cr) : -
Total Bid Consideration (Rs.) : 5,30,09,444.44 Total Offer Consideration (Rs.) : -

Buttons: Query, Print, Export, Deal Ticket Print, Deal Ticket Export, Close

2. The **Window** will display all the **trades**.
3. The user can filter the data based on **Market, Sub market, Category, Issue Type, Security, and Order Type**.
4. To view the data based on the filter selected click on **Query**.
5. Click on **Print** to get a printout.
6. Click on **Export** to export to .CSV.
7. Click Deal Ticket Print to take Print of Single trade.

NDS OM – Web Application (Tutorial)

7.3. Activity Log

The user can view the details of all the activities performed by the user like Orders placed, modified, and cancelled along with activity timestamp in this screen. The User can Print and Export the Activity Log.

8. Click on **Activity Log** under **User Queries**.

Security	Maturity	Type	Order No	Order Amount FV (Cr)	Price	Yield	Disclosed AOI	Time condition	GTT Time	Activity	Trade Amount FV (Cr)	Trade Price	Trade Yield	Trade No	Constituent Name	Time Stamp	Category	Market	Sub Market	ISIN	Ge	
10.00 GS 2020L	16-Mar-2020	B	201107160000022	5.0000	102.6300	9.5426	-	-	DAY	-	Placed	-	-	-	TESTCLINT02	12:52:46	CG	REG	SD	SAFSAFSAFSD	SAFSA	
10.00 GS 2020L	16-Mar-2020	B	201107160000022	5.0000	102.6300	9.5426	-	-	DAY	-	Traded	5.0000	102.6300	9.5426	201107160000002	TESTCLINT02	12:52:46	CG	REG	SD	SAFSAFSAFSD	SAFSA
08.65 GS 2017 KO 29-Sep-2017	16-Mar-2020	B	201107160000023	10.0000	10.0000	92.2650	-	-	DAY	-	Placed	-	-	-	TESTCLINT02	12:55:09	CG	REG	SD	ADAFASDASDAS	ADAFAS	
08.65 GS 2017 KO 29-Sep-2017	16-Mar-2020	B	201107160000023	10.0000	10.0000	92.2650	-	-	DAY	-	Cancelled by Client User	-	-	-	TESTCLINT02	13:04:46	CG	REG	SD	ADAFASDASDAS	ADAFAS	
08.65 GS 2017 KO 29-Sep-2017	16-Mar-2020	B	201107160000033	100.0000	100.0000	8.6454	-	-	DAY	-	Placed	-	-	-	TESTCLINT02	13:11:17	CG	REG	SD	ADAFASDASDAS	ADAFAS	
08.65 GS 2017 KO 29-Sep-2017	16-Mar-2020	B	201107160000033	100.0000	100.0000	8.6454	-	-	DAY	-	Cancelled by Client User	-	-	-	TESTCLINT02	13:15:59	CG	REG	SD	ADAFASDASDAS	ADAFAS	
GOI FRB 2033	10-Jul-2033	B	201107160000035	100.0000	100.0000	8.4298	-	-	DAY	-	Placed	-	-	-	TESTCLINT02	13:17:21	CG	REG	SD	IN0010072031	IN001	
GOI FRB 2033	10-Jul-2033	B	201107160000035	100.0000	100.0000	8.4298	-	-	DAY	-	Cancelled by Client User	-	-	-	TESTCLINT02	13:20:07	CG	REG	SD	IN0010072031	IN001	
08.13 GS 2022	21-Sep-2022	B	201107160000036	100.0000	100.0000	8.1275	-	-	DAY	-	Placed	-	-	-	TESTCLINT02	13:17:34	CG	REG	SD	IN0020070051	IN002	
08.13 GS 2022	21-Sep-2022	B	201107160000036	100.0000	100.0000	8.1275	-	-	DAY	-	Cancelled by Client User	-	-	-	TESTCLINT02	13:20:07	CG	REG	SD	IN0020070051	IN002	

9. The **Window** will display all the **activities done** in the day.
10. The user can filter the data based on **Market, Sub Market, Category, Security, Order Type and Client User**.
11. To view the data based on the filter selected click on **Query**.
12. Click on **Print** to get a printout.
13. Click on **Export To CSV** to save the file at a different place.
14. Click on **Close** to close the window.

7.4. Net Funds Position

The user can view latest funds position security-wise for all the orders and trades for the day.

1. Click on **Net Funds Position** under Users Queries.
2. A **window** will open up.
3. The user can filter the data based on **Submarket, Category, Security and Client User**.

Category Security	Maturity	Total Buy (FV Rs.Cr)	Total Sell (FV Rs.Cr)	Net Position (FV Rs.Cr)	Net Funds Position (Rs.)	WABP (Rs)	WABY (%)	WASP (Rs)	WASY (%)	ISIN	GENSPEC
CG 10.00 GOVT. STOCK 2020	16-Mar-2020	5.0000	-	5.0000	53009444.44	102.6300	9.5426	-	-	SAFSADFSAFSD	SAFSADFSAFSD

Total Net Position (FV Rs Cr): 5.0000
Total Net Fund Position (Rs): 53009444.44

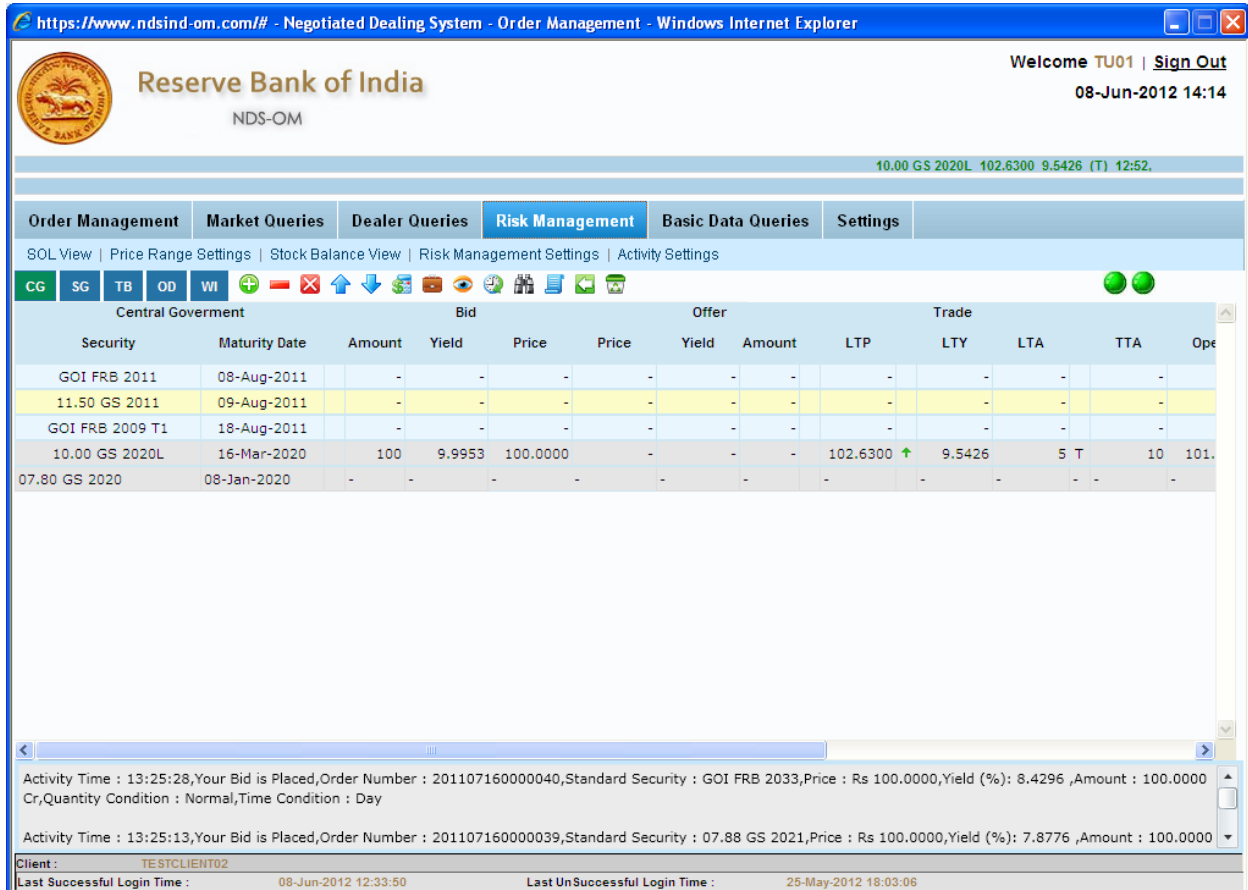
Query Print Export Close

4. To view the data based on the filter selected click on **Query**.
5. Click on **Print** to get a printout.
6. Click on **Export** to save the file at a different place in .CSV format.
7. Click on **Close** to close the window.

8. Risk Management

The Risk Management Menu allows the User to view the Risk parameters set for the Client/Client User. This is only a view option.

1. Click on **Risk Management** it will display the options under it.



The screenshot shows the Reserve Bank of India NDS-OM web application interface. The browser address bar displays "https://www.ndsind-om.com/# - Negotiated Dealing System - Order Management - Windows Internet Explorer". The page header includes the Reserve Bank of India logo, the text "Reserve Bank of India NDS-OM", and a welcome message "Welcome TU01 | Sign Out" with the date and time "08-Jun-2012 14:14". A status bar at the top right shows "10.00 GS 2020L 102.6300 9.5426 (T) 12:52".

The main navigation menu includes "Order Management", "Market Queries", "Dealer Queries", "Risk Management" (highlighted), "Basic Data Queries", and "Settings". Below the menu, there are links for "SOL View", "Price Range Settings", "Stock Balance View", "Risk Management Settings", and "Activity Settings". A toolbar contains various icons for navigation and actions.

The central table displays securities data under the "Central Government" category. The table has columns for Security, Maturity Date, Amount, Yield, Price, Offer Price, Offer Yield, Offer Amount, LTP, LTY, LTA, TTA, and Open. The data rows are as follows:

Security	Maturity Date	Amount	Yield	Price	Offer Price	Offer Yield	Offer Amount	LTP	LTY	LTA	TTA	Open
GOI FRB 2011	08-Aug-2011	-	-	-	-	-	-	-	-	-	-	-
11.50 GS 2011	09-Aug-2011	-	-	-	-	-	-	-	-	-	-	-
GOI FRB 2009 T1	18-Aug-2011	-	-	-	-	-	-	-	-	-	-	-
10.00 GS 2020L	16-Mar-2020	100	9.9953	100.0000	-	-	-	102.6300	9.5426	5 T	10	101.
07.80 GS 2020	08-Jan-2020	-	-	-	-	-	-	-	-	-	-	-

At the bottom of the page, there is a status bar with the following information:

Activity Time : 13:25:28,Your Bid is Placed,Order Number : 201107160000040,Standard Security : GOI FRB 2033,Price : Rs 100.0000,Yield (%) : 8.4296 ,Amount : 100.0000 Cr,Quantity Condition : Normal,Time Condition : Day

Activity Time : 13:25:13,Your Bid is Placed,Order Number : 201107160000039,Standard Security : 07.88 GS 2021,Price : Rs 100.0000,Yield (%) : 7.8776 ,Amount : 100.0000

Client : TESTCLIENT02
Last Successful Login Time : 08-Jun-2012 12:33:50
Last UnSuccessful Login Time : 25-May-2012 18:03:06

The User is able to view the following Risk Limits set by the Primary Member.

- **Single Order Limit**
- **Price Range Setting**
- **Activity Setting**
- **Turnover Limit**
- **Funding Limit**
- **Stock Balance**

9. Member Queries

Member Queries are available only to the View user. The View User has the facility to view details for all Users under the Client. The View User has the facility to filter for a specific User. The following queries are available under Member queries:

- Outstanding Orders
- Previous Trades
- Activity Log
- Net Funds Position

For details please refer to the section of Dealer Queries.

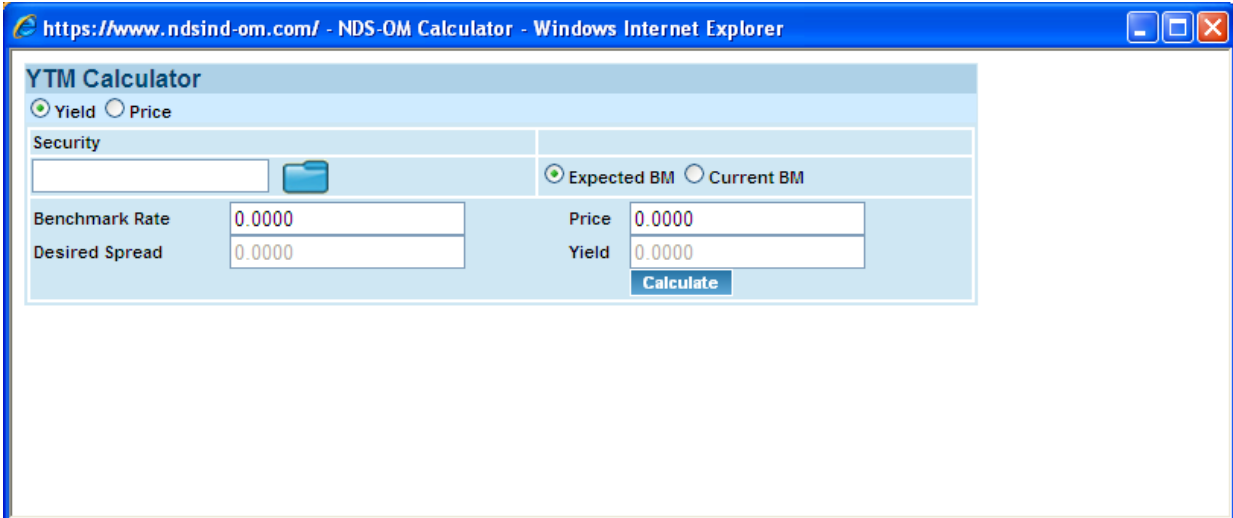
10. Basic Data Queries

YTM Calculator

The user can calculate either price from yield or yield from price from this screen for all kind of bonds including fixed, FRB etc. This function calculates the semi-annual Yield to Maturity of a dated security based on a given clean price, considering the remaining maturity and Price of a particular Security based on a given Yield to Maturity for both securities available for trading in the Regular Market. It also calculates the annual yield of a Treasury bill based on a given clean price, considering the remaining maturity and Price of a Treasury bill based on a given Yield. The price is calculated assuming a Face Value of 100. For dated securities which has to term to maturity of less than 6 months the system calculates the money market yield.

In case of FRB's the calculator allows the user to calculate Price/Yield based on Benchmark Rate available in the system or assumed benchmark. This is based on FIMMDA's method of calculation of Yield for FRBs

The user needs to first select security and whether he wants to compute price or yield.



The screenshot shows a web browser window titled "https://www.ndsind-om.com/ - NDS-OM Calculator - Windows Internet Explorer". The main content area is titled "YTM Calculator" and contains the following elements:

- Radio buttons for "Yield" (selected) and "Price".
- A "Security" field with a folder icon and a dropdown menu.
- Radio buttons for "Expected BM" (selected) and "Current BM".
- Input fields for "Benchmark Rate" (0.0000) and "Desired Spread" (0.0000).
- Input fields for "Price" (0.0000) and "Yield" (0.0000).
- A "Calculate" button.

1. For calculating Yield, Price needs to be input
2. For calculating Price, Yield needs to be input

NDS OM – Web Application (Tutorial)

Security List

The Client user will have access to the security list which will show all the securities for trading.

1. Click on **Security List** under **Basic Data Query**.
2. A new **window** will open.
3. Select **Market** from the drop – down.
3. Select **Category** from the drop-down
4. Select **Issue** from the drop down
5. Enter **Coupon**.
6. Select **No. of Days** from the drop down
7. Enter **Query** to get data output.

Activity Time : 13:25:28,Your Bid is Placed,Order Number : 201107160000040,Standard Security : GOI FRB 2033,Price : Rs 100.0000,Yield (%) : 8.4296 ,Amount : 100.0000
Cr,Quantity Condition : Normal,Time Condition : Day

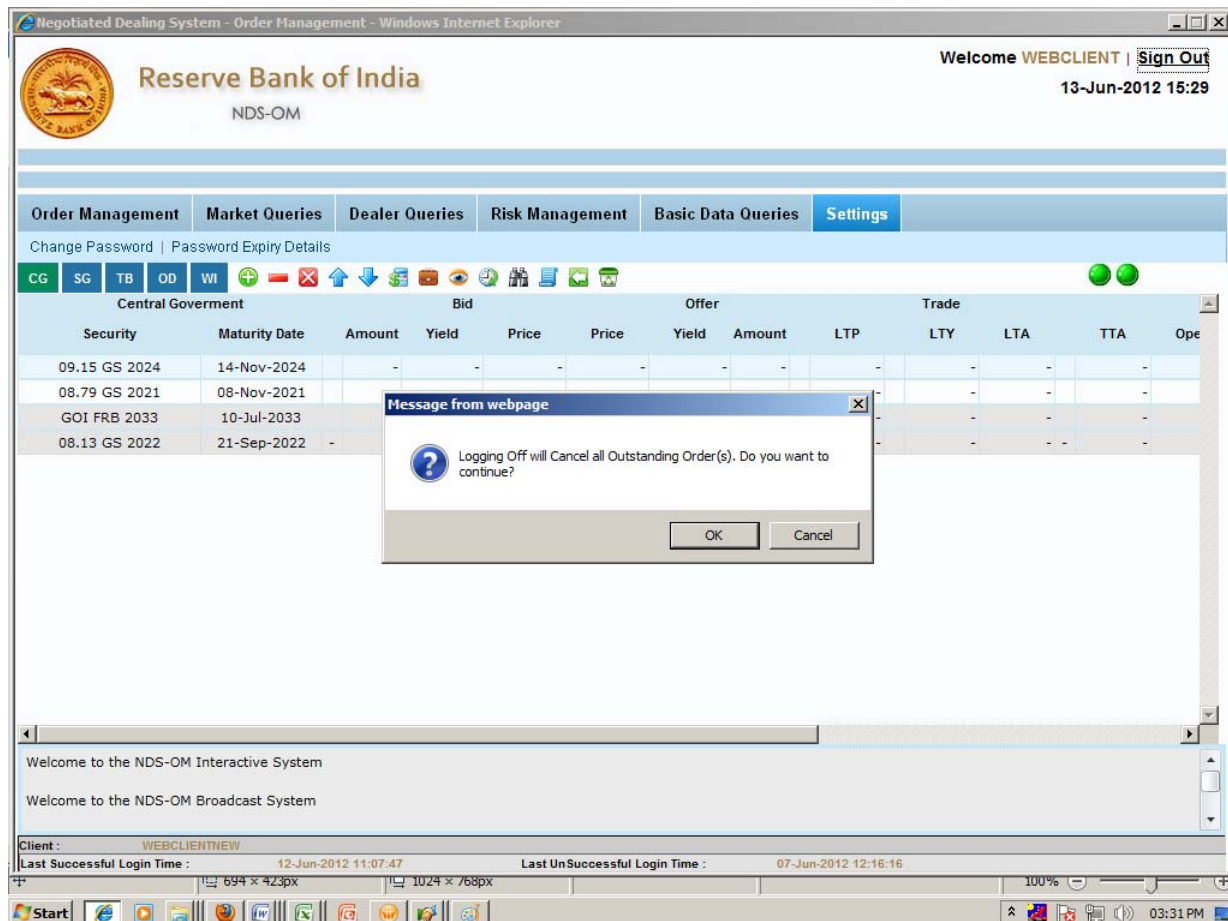
Activity Time : 13:25:13,Your Bid is Placed,Order Number : 201107160000039,Standard Security : 07.88 GS 2021,Price : Rs 100.0000,Yield (%) : 7.8776 ,Amount : 100.0000

Client : TESTCLIENT02
Last Successful Login Time : 08-Jun-2012 12:33:50 Last UnSuccessful Login Time : 25-May-2012 18:03:06

8. Click **Print** to get a printout.
9. Click **Export** to export to .CSV format.
10. Click **Close** to close the window.

11. Logging Out from the application

1. Click on Logout to switch from the system.
2. System will prompt the following message:



3. On clicking **OK**, user will be logged out from the system.

