



NextGen Online Trading System

# USER MANUAL

THE LATEST ELECTRONIC VERSION

Information contained in this User Manual is proprietary to IronOne Technologies (Pvt) Ltd and is confidential.

# Contents

1. Introduction.....	5
2. Getting Started .....	7
2.1 What you need .....	7
2.2 How to login.....	7
At a Glance.....	8
3. Atrad Home .....	11
3.1 Ticker .....	11
3.2 Indices.....	11
3.3 Themes .....	12
3.3.1 Full screen Feature .....	14
3.3.2 Custom Watch .....	14
3.4 Sector watch .....	16
3.5.1 Full Watch.....	16
3.5.2 Ticker Watch.....	17
3.5.3 Top 10 Gainers.....	17
3.5.4 Top 10 Losers.....	17
3.5.5 Top 10 Share volumes .....	17
3.6 Portfolio Watch .....	18
3.7 Add Security.....	18
3.8 Announcements .....	19
4. Client Details.....	21
4.1 Account Statement.....	21
4.2 Portfolio .....	21
4.3 Change Password.....	22
5. Order Placement.....	24
5.1 Tab Market Depths (Multiple Tab OderBook).....	24
5.2 Buy Order.....	26
5.3 Sell Order .....	27
5.4 Blotter.....	29
6. Statistical Data .....	32
6.1 Trade Book.....	32
6.2 Market Time and Sales .....	33
6.3 Statistics.....	34
6.4 Charts.....	35

7. Analysis .....	36
7.1 Chart .....	36
7.2 Whatif Calculator.....	39

# 1. Introduction

This section contains a brief introduction about the ATrad NextGen Online Trading System.

# 1. Introduction

ATrad Online is a flexibility rich Stock Brokerage solution which enables clients to **watch the stock market live, place trading orders and view their portfolios online**. ATrad provides flexible end to end solution to brokerage houses. ATrad saves clients' time by giving direct access to the trading market and it gives them ability to access the market information 24-7.

## **ATrad Online provides following features,**

- Can do online trading.
- Can view all the trades during the day for each security using trade book.
- Can view list of statistics for any selected security using statistics window
- Can view all the transactions taken place in the market using Market Time and Sales
- Can display total bid orders and total ask orders related information for a given security using Market Depth
- Can view your account details using Account Statement
- Can view client portfolio using Portfolio.
- Can view the CSE announcements using announcements window.
- Can view the graphical information of the security using charts.

## 2. Getting Started

This section deals with setting up and basic functions of the ATrad NextGen Trading System.

## 2. Getting Started

### 2.1 What you need

Before you start using ATrad Online trading system, you need to fulfill following hardware and software requirements.

You need to have one of the following Operating systems with the above configurations installed in your PCs.

- Microsoft Windows-XP,VISTA , Windows7 , Windows 8 , Any distribution of Linux , Mac OS
- Processor & speed – Core 2 Duo or higher
- Memory (RAM) - 1 GB or Higher

One of the following browser versions should be available in your PC

- Google Chrome – 15 or Higher
- Firefox - 14.0 or Higher
- Internet Explorer - 9 or Higher
- Safari - 5.1 or Higher

You need to have one of the following types of Internet Connectivity speed

- ADSL with 512kbps or higher
- Mobile Broadband 512kbps or higher
- Recommended Screen resolution is 1024 \* 768

### 2.2 How to login

- 1) Type URL in an appropriate browser which has mentioned above.
- 2) Login page will appear
- 3) Enter personal Username and Password which has been provided by the broker.
- 4) Correct credentials will lead to login to the ATrad NextGen Online trading system successfully.

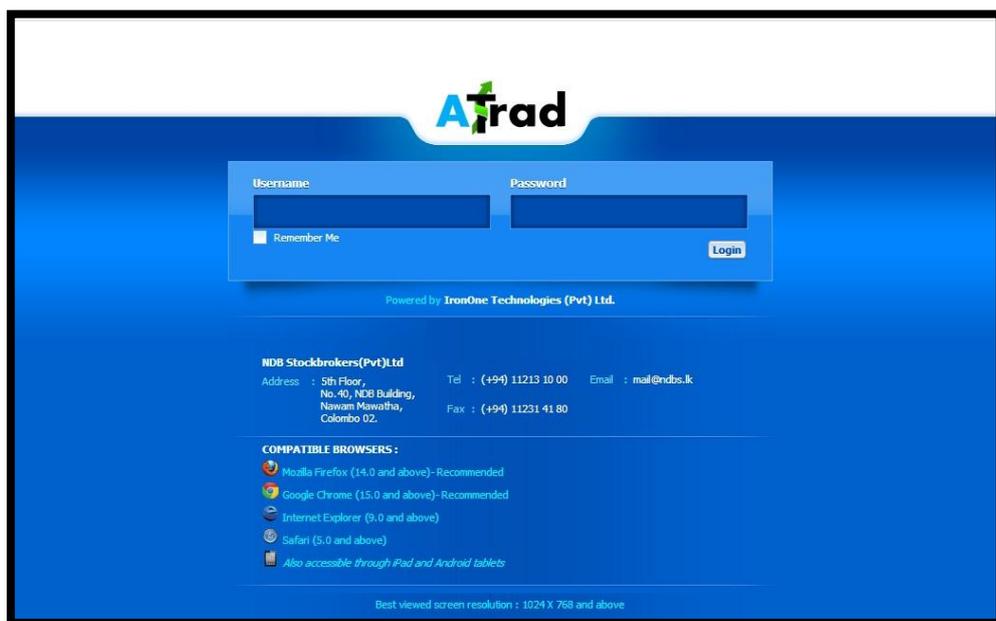


Figure 1: Login Page

## Important

- If you get an error message saying “Username and password mismatch”, please check your username, password and try again.
- If you’re using the system at the first time, System will ask you to change your default password.
- If you did not log out properly last time, and closed the browser window you will need to wait for some time to login again, since there is a login time out introduced to the software.
- If you get an error message saying ‘User already logged in using Web application’, you have to wait some time since you were not properly logout from the system or your session has been timed out by the system.
- If you were unable to login the system within some time please contact your broker IT division to check your login status.

## At a Glance

Once you logged in to the system, ATrad home will appear as below.

The screenshot displays the ATrad home page interface. At the top, there are navigation tabs: Watch, Trade, View, Client, Chart, Analysis, and Announcements. The main header shows market status: ASI: 5753.20 (-389.67), S&P SL20: 3209.93 (-243.30), Turnover: 1,947,762,688, and Volume: 49,447,426. Below this, there are several rows of market data for various securities, including SIGV.N0000, FLCH.N0000, AEL.N0000, CHMC.N0000, SEYB.X0000, AEL.N0000, PAP.N0000, CTLD.N0000, and BLUE.N0000. The main table lists securities with columns for Security, Company Name, Bid Qty, Bid Price, Ask Price, Ask Qty, Last, Last Qty, Change, % Change, High, Low, VWA, Volume, Turnover, Price Close, and Time. The table includes entries for CFIN.N0000 (CENTRAL FINANCE CO. L), AEL.N0000 (ACCESS ENGINEERING L), COMB.N0000 (COMMERCIAL BANK OF C), CONN.N0000, ACAP.N0000 (ASIA CAPITAL LTD), VLL.N0000 (VIDULLANKA LIMITED), DIAL.N0000 (DIALOG TELEKOM LTD.), TIL.N0000 (TEXTURED JERSEY LANK), COCO.N0000 (COCO LANKA LTD), JKL.N0000 (JOHN KEELLS LTD.), CSEC.N0000 (CENTRAL SECURITIES LI), COCR.N0000 (COMMERCIAL CREDIT LI), OFLB.N0000 (COLOMBO FORT LAND &), AGAL.N0000 (AGALAWATTE PLANTATI), VONE.N0000 (VALLIBEL ONE LIMITED), BIL.N0000 (BROWNS INVESTMENTS), BALA.N0000 (BALANGODIA PLANTATIC), WATA.N0000 (WATAWALA PLANTATIO), CCS.N0000 (CEYLON COLD STORES L), and AAF.N0000 (ASIA ASSET FINANCE LI).

Figure 2: Home Page

- Here you will get market status information and announcements details in the top of the page.
- Ticker - Next to that you have the ticker which is useful to identify the trades happening in the market at the time.
- Indices - Bottom of the ticker you have indices which are useful to track the performance of the market.
- Menu bar - Menu bar appears next to that. You can access following functionalities through that.

Buy/Sell, Order Book, Blotter, Trade Book, Market Time & Sales, Statistics, Account Statement, Portfolio, Change Password, Top 10 Gainers/Losers/Share Volumes, Chart.

- Watch list - Then you can see the market watch which contains all the real time market data.
- In the bottom of the page Copyright details are displayed.

## 3. Atrad Home

This section will cover the main page features of the Atrad Online Trading System..

### 3. Atrad Home

#### 3.1 Ticker

In the top of the ATrad home page you can see a panel which changes every time. It is called as ticker. **It is useful to identify the trades in the real time.** Ticker shows all the trades executed in the CSE market trading time. Upon click on ticker will open the trade book of relevant security. Ticker will be updated in every five seconds. Ticker colors have been indicated according to the price variations of securities.

05:05	LLUB.N0000	55 @	2.20 ▲	2.20	JKH.N0000	4207000 @	249.00 ▲	249.00
05:05	CSF.N0000	19900 @	20.00 ▲	20.00	LION.N0000	4000 @	185.00 ◀▶	0.00
05:05	EXPO.N0000	82300000 @	10.00 ▲	10.00	RHTL.N0000	10000 @	35.00 ▲	8.10
05:05	ATL.N0000	4201 @	2.70 ▲	0.40				

Figure 3: Ticker

#### Color scheme of ticker is as follows

**GREEN** - Price is increasing

LCEY.N0000	200 @	184.00 ▲	1.00
------------	-------	----------	------

Figure 4: Ticker Green

Here you can see 200 shares of LCEY.N0000 security has traded for Rs.184.00 with one rupee price increment.

**RED** - Price is decreasing

LHCL.N0000	200 @	31.20 ▼	-0.30
------------	-------	---------	-------

Figure 5: Ticker Red

Here you can see 200 shares of LHCL.N0000 security has traded for Rs.31.20 with thirty price decrement.

**WHITE** - No price change after the previous day closing

SIRA.N0000	1 @	3.10 ◀▶	0.00
------------	-----	---------	------

Figure 6: Ticker White

Here you can see 1 share of SIRA.N0000 security has traded for Rs.3.10 without any price change.

#### 3.2 Indices

You can see a bar at the top of ticker which contains four values. It is called as indices bar. **Indices are used to track the performance of the stock market.** ASI, MPI, Turnover and Volume can be mentioned as four types of indices use in CSE.

ASI : 5753.20 ▼ -389.67	S&P SL20 : 3209.93 ▼ -243.30	Turnover : 1,947,762,688	Volume : 49,447,426
-------------------------	------------------------------	--------------------------	---------------------

Figure 7: Indices

## Volume

Volume is the value of total number of shares traded in the market. You can get an idea of market performance by volume value.

## Turnover

Sum of volume\*price (for each security). You can get an idea of all market shares from this value.

## ASI

All Share Index (ASI) is the main price index of CSE. This is the weighted price index of all the listed companies on the CSE. 'Weighted Price' means that the share prices are weighed based on the market capitalization of each company. 'Market Capitalization' is the total issued ordinary share capital of the company valued at current market price.

$$\text{All Share Price Index} = \frac{\text{Market Capitalization of All Listed Companies}}{\text{Base Market Capitalization}} * 100$$

## MPI

Milanka Price Index (MPI) includes a set of 25 companies selected based on their performances during the last four quarters. However there are some criteria to be fulfilled for a company to be selected to the MPI.

$$\text{Milanka Price Index} = \frac{\text{Market Capitalization of 25 Milanka Companies}}{\text{Base Market Capitalization of those 25 Milanka Companies}} * 1000$$

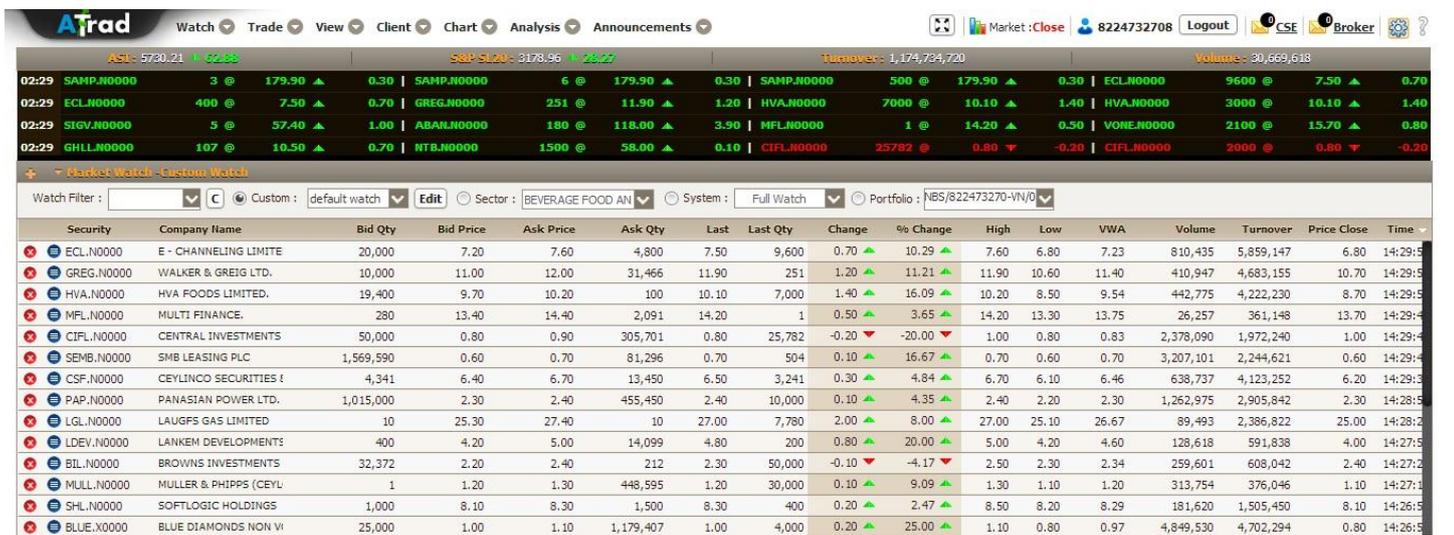
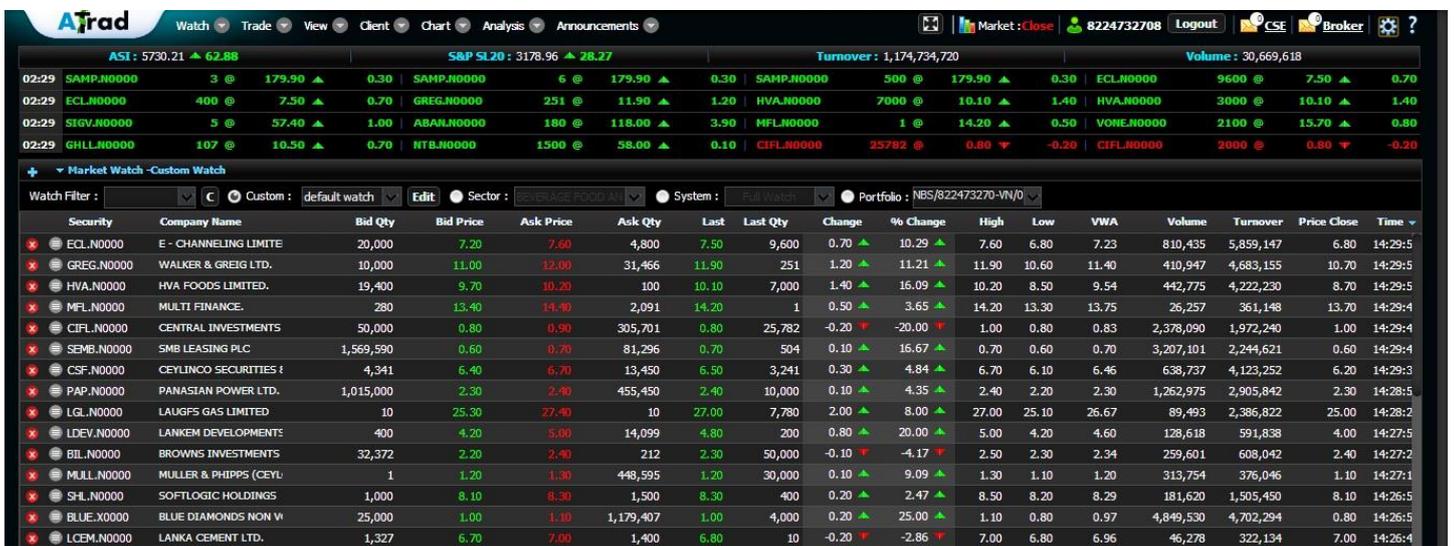
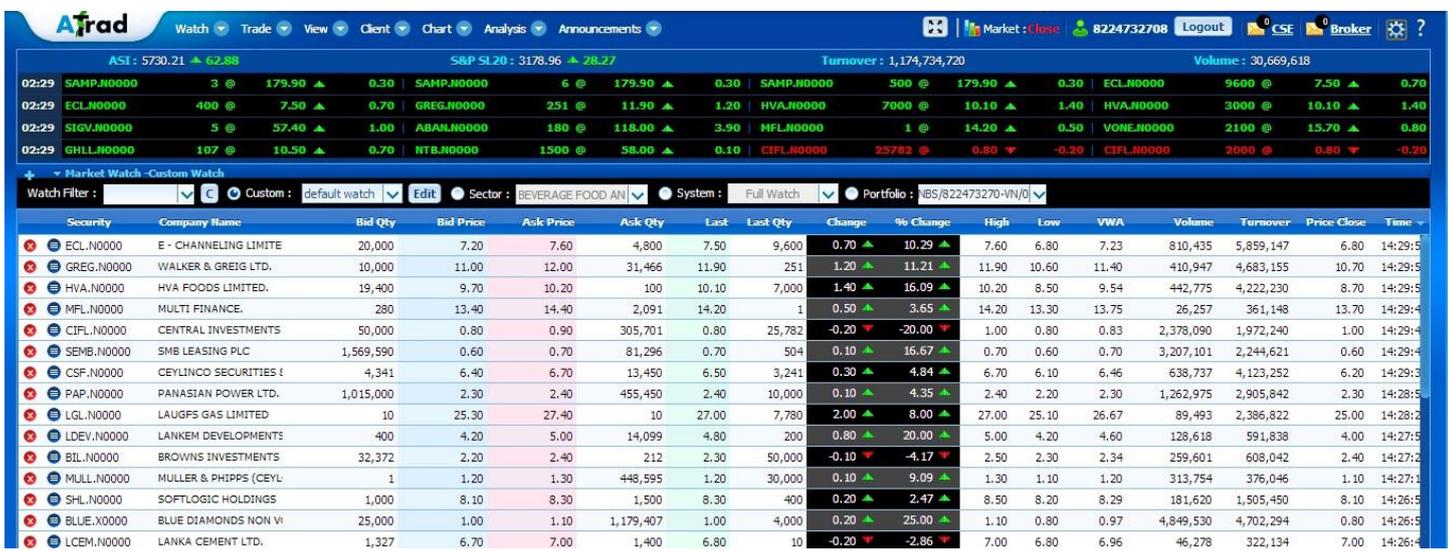
## 3.3 Themes

Atrad Online trading system consist of three color themes called “ Black” “Blue” and “White” . You can change the appearance of the system just changing the theme as you preferred. You can do the theme change just clicking on the setting icon and selecting the color as shown in the following screen

The screenshot displays the Atrad Online trading system interface. At the top, there is a navigation bar with icons for market status (Close), user ID (8224732708), Logout, CSE, Broker, and a settings icon. A dropdown menu is open over the settings icon, showing three theme options: 'black', 'blue', and 'white'. The main area shows a market overview with a volume of 30,669,618 and a list of stocks with their prices and changes. Below this, there is a portfolio selector showing 'NBS/822473270-VN/0' and a table of market data.

% Change	High	Low	VWA	Volume	Turnover	Price Close	Time
10.29 ▲	7.60	6.80	7.23	810,435	5,859,147	6.80	14:29:5
11.21 ▲	11.90	10.60	11.40	410,947	4,683,155	10.70	14:29:5

Figure 7.1: Theme change



### 3.3.1 Full screen Feature

By clicking the full screen button you can toggle between full screen mode and normal mode. Full screen mode allow to increase the space utilization hence maximize the information displayed on the screen.



Figure 7.4: Full Screen Button

### 3.3.2 Custom Watch

Custom watch contains watch lists that you can customize according to your preferences. You can see real time Trade information in this watch list. **Watch list will help you to identify the status of each security in the real time.** Watch list displays list of securities with details and it updates the market variations real time. You can add, delete and rename watches of custom watch list by using the edit button and going to edit Custom watch window.

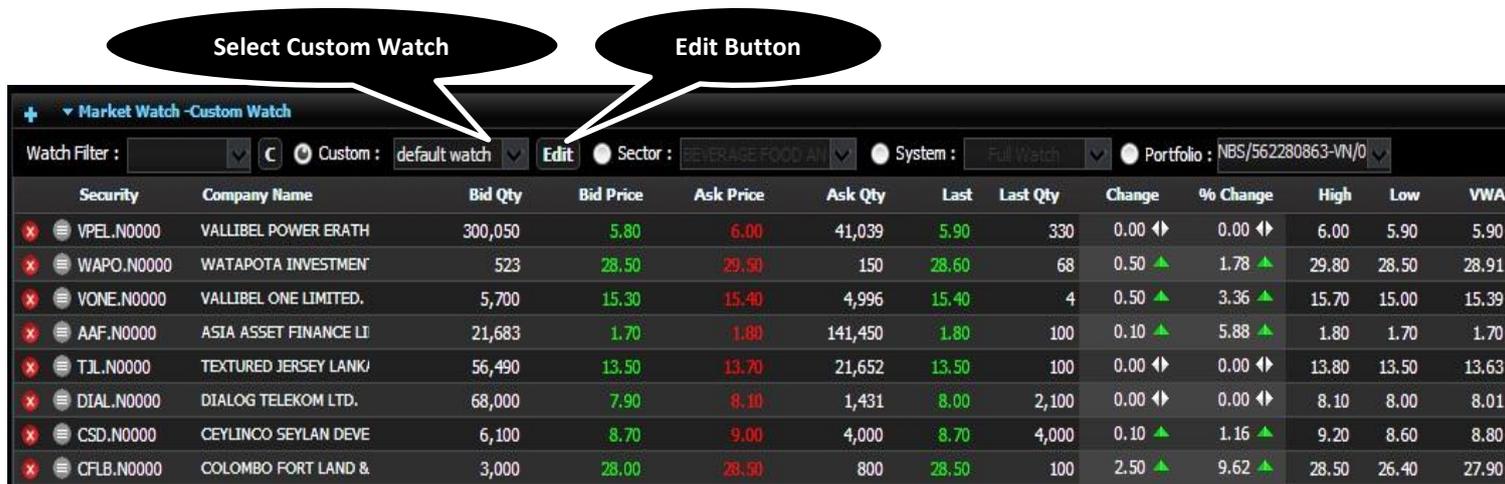


Figure 8.1: Custom Watch

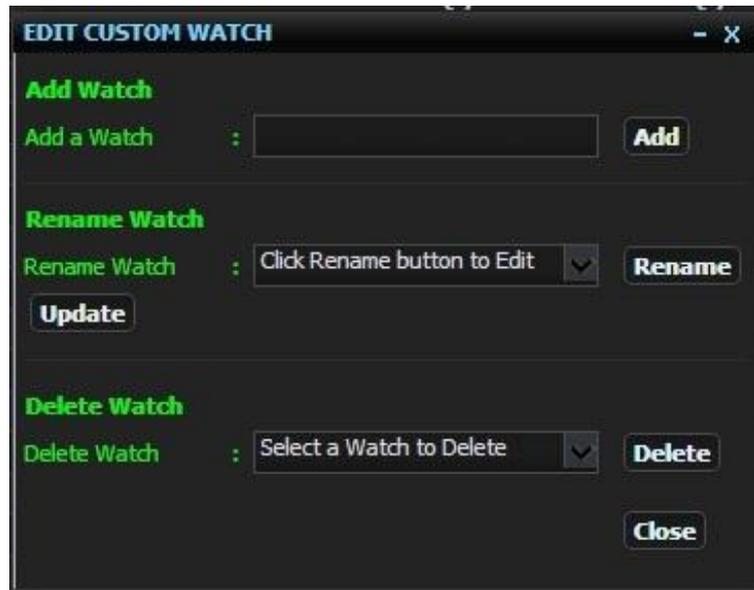


Figure 8: Custom Watch Window



Figure 9: Right click Menu

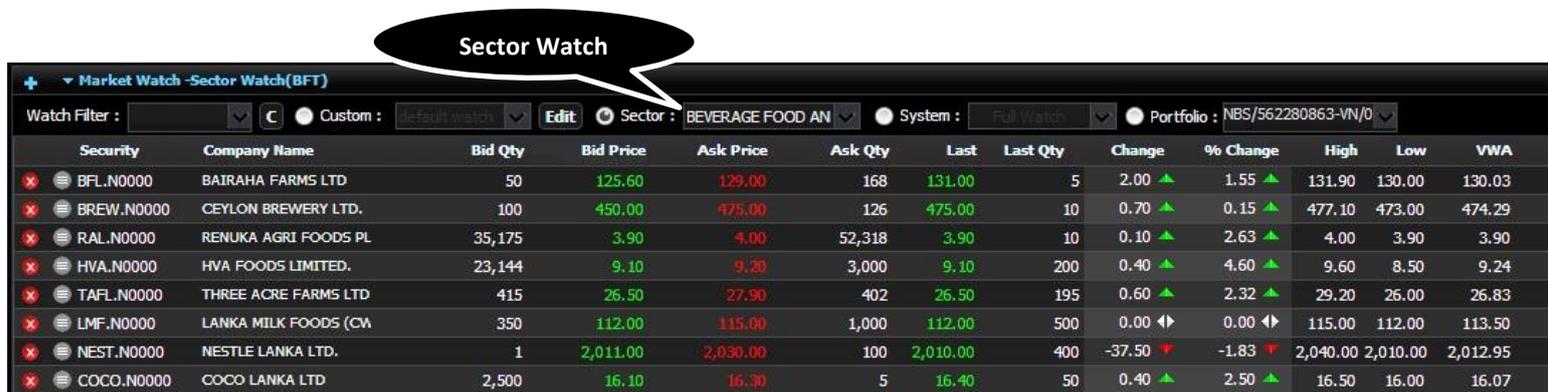
- Column 1 (Delete security) – By click on this column you can delete the Security from the watch list
- Column 2 (Settings) – You can open Menu items from this column
- Column 3 (Security) – Upon click on this column, you can see order book of the security
- Column 5 & 6 (Bid Quantity and Bid price) – You can open Sell window by clicking on this column
- Column 7 & 8 (Ask price and Ask quantity) – You can open Buy window by clicking on this column
- Column 9 (Trade price) – You can see Trade book window by clicking on this column
- Column 10 (Trade Size) – You can see statistics window by clicking on this column

Net change values, Average price values and per change values are calculated according to the following formulas.

Column Name	Formula
Net Change	Trade Price – VWA Price
Average Price	Total Turnover / Total Volume
Per Change	(Trade Price – VWA Price * 100) / VWA price

### 3.4 Sector watch

Sector watch helps you to select the securities sector wise. There are 20 sectors in the sector watch. When you select the sector type, system will display the securities relevant to that sector in the watch list.



The screenshot shows the 'Sector Watch' interface. A callout bubble labeled 'Sector Watch' points to the title of the watch list. The watch list is titled 'Market Watch -Sector Watch(BFT)' and includes a 'Watch Filter' dropdown, a 'Custom' button, and a 'Sector' dropdown set to 'BEVERAGE FOOD AN'. The table below lists securities with columns for Security, Company Name, Bid Qty, Bid Price, Ask Price, Ask Qty, Last, Last Qty, Change, % Change, High, Low, and VWA.

Security	Company Name	Bid Qty	Bid Price	Ask Price	Ask Qty	Last	Last Qty	Change	% Change	High	Low	VWA
BFL.N0000	BAIRAHA FARMS LTD	50	125.60	129.00	168	131.00	5	2.00 ▲	1.55 ▲	131.90	130.00	130.03
BREW.N0000	CEYLON BREWERY LTD.	100	450.00	475.00	126	475.00	10	0.70 ▲	0.15 ▲	477.10	473.00	474.29
RAL.N0000	RENUKA AGRI FOODS PL	35,175	3.90	4.00	52,318	3.90	10	0.10 ▲	2.63 ▲	4.00	3.90	3.90
HVA.N0000	HVA FOODS LIMITED.	23,144	9.10	9.20	3,000	9.10	200	0.40 ▲	4.60 ▲	9.60	8.50	9.24
T AFL.N0000	THREE ACRE FARMS LTD	415	26.50	27.90	402	26.50	195	0.60 ▲	2.32 ▲	29.20	26.00	26.83
LMF.N0000	LANKA MILK FOODS (CV)	350	112.00	115.00	1,000	112.00	500	0.00 ↔	0.00 ↔	115.00	112.00	113.50
NEST.N0000	NESTLE LANKA LTD.	1	2,011.00	2,030.00	100	2,010.00	400	-37.50 ▼	-1.83 ▼	2,040.00	2,010.00	2,012.95
COCO.N0000	COCO LANKA LTD	2,500	16.10	16.30	5	16.40	50	0.40 ▲	2.50 ▲	16.50	16.00	16.07

Figure 10: Sector watch

#### How to access

- 1) Click on market watch to toggle the area and select sector watch from there.

### 3.5.1 Full Watch

You can see complete listing of the market from this section.

#### How to access

- 1) Click on market watch to toggle the area, select system and select Full watch from there
- 2) From the menu bar select Full watch.

### 3.5.2 Ticker Watch

You can see companies involved in today's sales from this section.

#### How to access

- 1) Click on market watch to toggle the area, select system and select Ticker watch from there
- 2) From the menu bar select Ticker watch.

### 3.5.3 Top 10 Gainers

You can see top 10 gainers of the market from this section. Top 10 securities which gained highest **price change percentage** will be listed under top 10 gainers.

#### How to access

- 1) Click on market watch to toggle the area, select system and select top 10 gainers from there
- 2) From the menu bar select top 10 Gainers.

### 3.5.4 Top 10 Losers

You can see top 10 losers of the market from this section. Top 10 securities which lost by maximum **price change percentage** will be listed under top 10 losers.

#### How to access

- 1) Click on market watch to toggle the area, select system and select top 10 losers from there.
- 2) From the menu bar select top 10 Losers.

### 3.5.5 Top 10 Share volumes

You can see top 10 share volumes of the market from this section. Top 10 securities which had **highest volumes traded during the trading time in the market** will be listed under top 10 share volumes.

#### How to access

- 1) Click on market watch to toggle the area, select system and select top 10 Share volumes from there
- 2) From the menu bar select top 10 Share volumes.

### 3.6 Portfolio Watch

You can see all securities owned by the client from this section.

#### How to access

- 1) Click on market watch to toggle the area and select Portfolio watch from there
- 2) From the menu bar select Portfolio watch.

### 3.7 Add Security

You can use add security window to add securities to the watch. And also user can select securities for Buy/Sell window through this window.

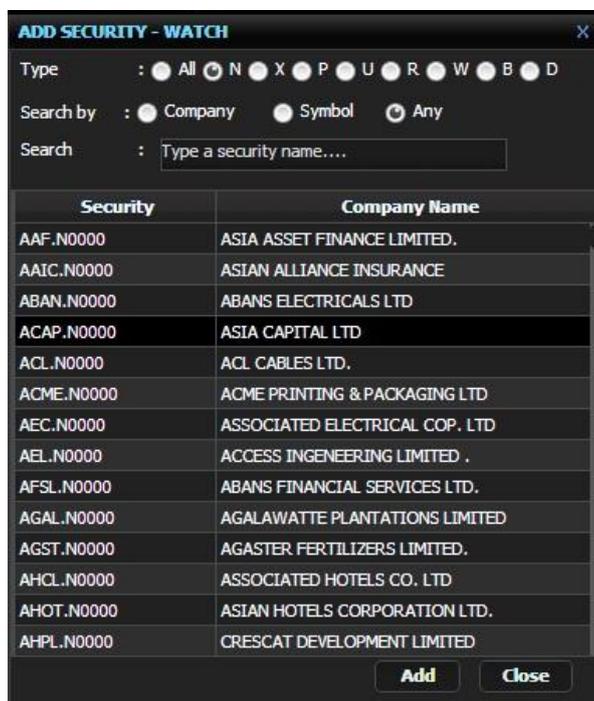


Figure 11: Add Security

#### How to access

- 1) Click on add security icon on top of the watch.
- 2) Right click on watch and select add security.
- 3) Click on Buy/Sell/Order Book/Trade Book/Statistics menus from the menu bar.

### 3.8 Announcements

You can view the information of the CSE and Broker announcements from this feature. CSE announcements will provide CSE information and broker announcements will provide broker house information.

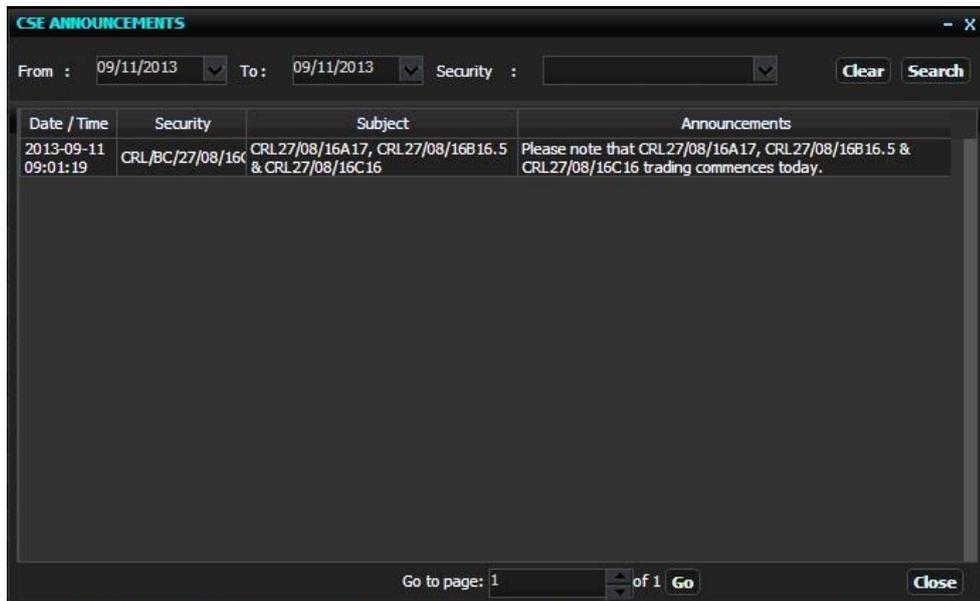


Figure 12: Announcements

#### How to access

- 1) Click on CSE button or Broker button in the top right hand corner of the ATrad Home page.

## 4. Client Details

This section contains the details about client data on Atrad NextGen Online Trading System.

## 4. Client Details

### 4.1 Account Statement

Here you can view the details of the client account statement. You can select one of your accounts from the drop down list if you have more than one account

**ACCOUNT STATEMENT**

A/C No : [Dropdown] Investment Advisor : **00024**

Name : [Dropdown] Display From : 2/1/2013 To : 8/30/2013 **Go**

Address : [Dropdown] Buying Power : **:917,201.34**

Date	Transaction Type	Transaction Number	Transaction Particular	No. of Shares	Price	Amount	Balance	Settlement Date
2013-02-01	OP	OPBAL	Opening Balance at 2013-02-01	-	0.00	207.91	207.91	
2013-02-26	B	2013011804	Purchase of HPWR.N0000	51	20.80	1,072.67	1,280.58	2013-03-01
2013-02-26	B	2013011813	Purchase of BRWN.N0000	60	113.00	6,855.94	8,136.52	2013-03-01
2013-02-26	B	2013011987	Purchase of ASIY.N0000	1,000	3.20	3,235.84	11,372.36	2013-03-01
2013-03-08	R	RCT201303000	Direct Cash to Bank, DIRECT CHQ TO NDB-08/03/2013 (509724)	-	0.00	(11,372.36)	0.00	2013-03-08
2013-08-29	BU	1:1-7-1377757011655	Purchase of JGH.N0000	500	213.90	108,147.84	108,147.84	

**Close**

Figure 13: Account Statement

#### How to access

- 1) Click on Client Details in the main menu and select Account Statement.

### 4.2 Portfolio

Portfolio window will help you to view the information of the client's portfolio. Total cost, market value and Net gain/loss can be viewed from here. You can select accounts from the Account No drop down and view the details.

**PORTFOLIO**

Account No : [Dropdown] Address : [Dropdown] **Refresh**

Name : [Dropdown]

	Security	Quantity	Holding %	Avg Price	B.E.S Price	Total Cost	Traded Price	Market Value	Sales Commission	Sales Proceeds	Unrealized Gain / (Loss)	Unrealized Today Gain/(Loss)
🚫	AHPL.N0000	1,000	7.62	198.92	201.15	198,920.00	69.00	69,000.00	772.80	68,227.20	(130,692.80)	(4,000.00)
🚫	CFIN.N0000	516	10.54	943.45	954.02	486,820.19	184.90	95,408.40	1,068.57	94,339.83	(392,480.36)	(1,599.60)
🚫	[Sell] [Security]	600	6.96	105.00	106.18	0.00	105.00	63,000.00	705.60	62,294.40	62,294.40	0
🚫	CIC.X0000	2,610	10.38	36.00	36.40	0.00	36.00	93,960.00	1,052.35	92,907.65	92,907.65	(37,845.00)
🚫	CSEC.N0000	7,500	9.94	15.17	15.34	113,775.00	12.00	90,000.00	1,008.00	88,992.00	(24,783.00)	(7,500.00)
🚫	DOCK.N0000	525	11.89	275.05	278.13	144,401.25	205.00	107,625.00	1,205.40	106,419.60	(37,981.65)	(18,375.00)
🚫	KAHA.N0000	5,000	16.57	43.48	43.97	217,400.00	30.00	150,000.00	1,680.00	148,320.00	(69,080.00)	(39,000.00)
🚫	LIOC.N0000	5,000	14.53	19.11	19.32	95,550.00	26.30	131,500.00	1,472.80	130,027.20	34,477.20	(3,500.00)
🚫	NAMU.N0000	1,000	7.75	156.43	158.18	156,430.00	70.10	70,100.00	785.12	69,314.88	(87,115.12)	(13,300.00)
🚫	SEMB.N0000	5,707	0.44	0.70	0.71	0.00	0.70	3,994.90	44.74	3,950.16	3,950.16	(1,141.40)
🚫	UBC.N0000	1,900	3.36	16.00	16.18	0.00	16.00	30,400.00	340.48	30,059.52	30,059.52	(7,220.00)
	<b>Total</b>					<b>1,413,296.44</b>		<b>904,988.30</b>	<b>10,135.87</b>	<b>894,852.43</b>	<b>(518,444.01)</b>	<b>(133,481.00)</b>

\*The average cost and gain/loss in this statement are indicative figures as the cost of the following transaction types may have not been captured in the calculation

\*Warrants \*Right issues \*Splits \*Subdivisions \*Bonus issues \*Intra transfer \*Share lodgments

**Close**

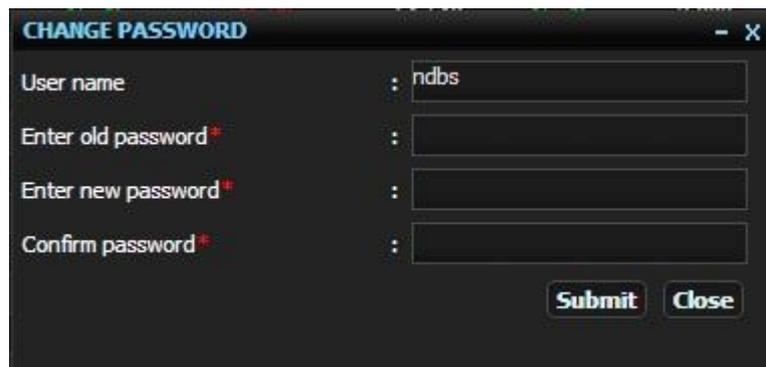
Figure 14: Portfolio

#### How to access

- 1) Click on Client Details in the main menu and select Portfolio.

## 4.3 Change Password

You can change your password from this window.



The image shows a dark-themed dialog box titled "CHANGE PASSWORD". It has a title bar with a minus sign and a close button (X). The dialog contains four input fields, each preceded by a colon and a red asterisk. The first field is labeled "User name" and contains the text "ndbs". The other three fields are labeled "Enter old password", "Enter new password", and "Confirm password", and are currently empty. At the bottom right of the dialog are two buttons: "Submit" and "Close".

Figure 15: Change Password

### How to access

- 1) Click on Client in the main menu and select Change Password.

## 5. Order Placement

This section contains the details about how to place an order in Atrad NextGen Online Trading System

## 5. Order Placement

### 5.1 Tab Market Depths (Multiple Tab OderBook)

You can have the following features.

1. Multiple tabbed market depths opened. This entails you to view multiple tabs for different shares' market depth concurrently
2. Once opened multiple tabs, the active tab window only shall be refreshed. This essentially makes only the active tab to load real time data

#### Open Multiple Tab “Market depths”

Bid Price	Bid Qty	Splits	Ask Price	Ask Qty	Splits
214.00	75	1	216.00	100	1
213.10	700	1	220.00	200	1
212.00	100	1	222.90	500	1
211.00	200	1	229.00	229	1
210.10	16	2	238.00	100	1
210.00	370	4	239.00	1	1
209.00	6	1	239.80	700	1
208.10	600	2	239.90	500	1
208.00	5,001	2	240.00	101	2
207.50	600	2	240.20	1	1

Figure 16: Multiple Market depth window

How to Access:

1. User will be able to open multiple tab market depths from different windows
    - ✓ Open Market depth from the watch list (right click option) of the respective share
    - ✓ Open Market depth and search respective share/s on the Main Menu bar
    - ✓ Open Market depth from statistic window of respective share (from ticker section)
- These market depths are independent and will bring in real time data only for the active tab market depth window
  - User will have the privilege to close any of the opened Oder books
  - The **Close** button is set against the respective Market depth's **X**. Closing any of these icons shall close the respective market depth only.
  - However the **X** icon on top of the Market depth shall close the entire Market depth window

### Active Tab Refreshed with real time data

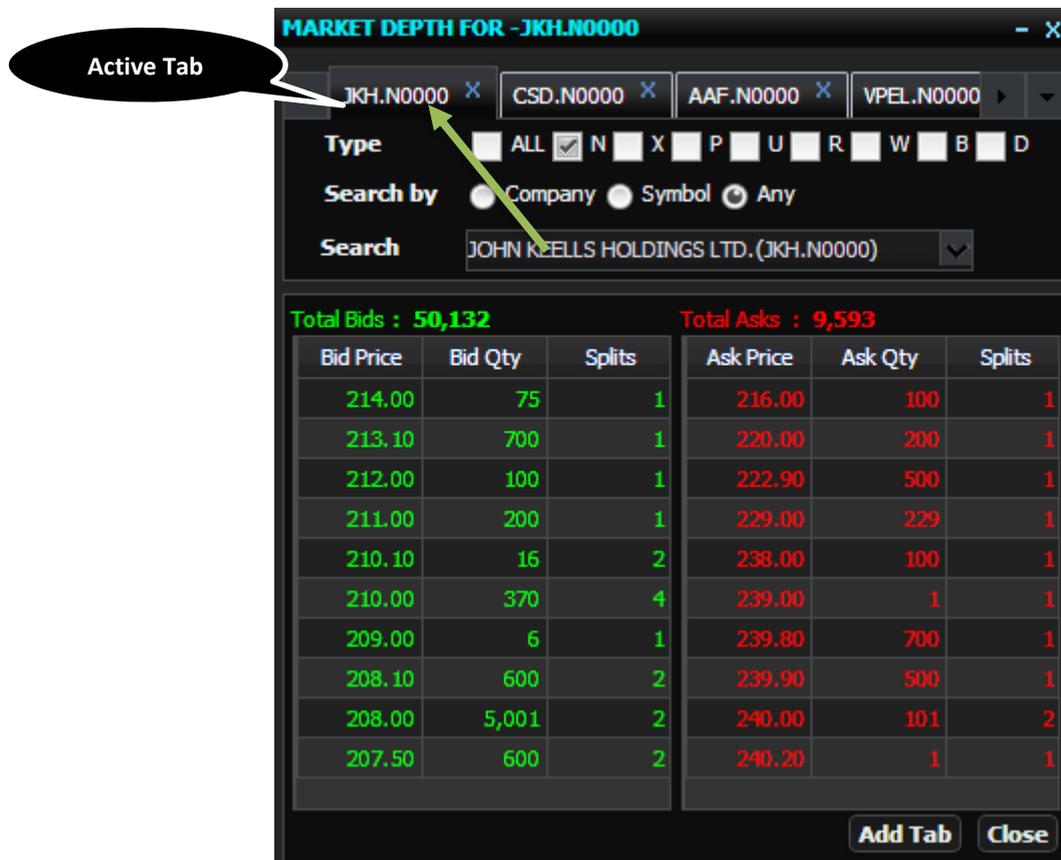


Figure 17: Active Tab refreshed with real time data

- When navigating to another Market depth; the active market depth will be refreshed.
- The data loaded will be displayed on a real time basis for the active market depth window.
- At any given time when the user search a new Share from the market depth; a new market depth tab will appear and display.

#### Also note:

- When you open the Market depth from the Main Menu bar
  - ✓ A general Market depth window will be Opened → This will appear as a tab
- If the User goes and open the Market depth again from the Main Menu bar
  - ✓ Another tab will be opened in the same market depth window → Existing market depth + new market depth will be displayed as separate tabs
- At any given time when the user search a new Share from the market depth; the active market depth tab will appear and display.
- The search field will be blank in this instance and data is not loaded in
- When only search relevant share the active tab market depth's real time data will be loaded

## 5.2 Buy Order

This feature allows you to place a buy order for a security. To place a buy order you need to have enough buying power in your account. And also your order should be within per day limit and Order limit which is assigned by your broker according to your capacity.

AAF.N0000 BUY		
Best Bid	: 1.70	Best Ask : 1.80
High	: 1.80	Low : 1.70
Avg Price	: 1.70	Volume : 46,002
		Last Trade : 1.70
		Net Change : -0.10
		Turnover : 78,224

Client Account	:	
Action	:	BUY
Security ID	:	AAF.N0000
Quantity	:	10
Price	:	1.80
Minimum Fill Qty	:	5
Disclose Qty	:	10
Order Type	:	LIMIT
TIF	:	DAY
TIF Days	:	1

Broker-Client	:	local local
Client Name	:	MR. P.R.K. DIAS
Company Name	:	ASIA ASSET FINANCE LIMITED.
Board	:	REGULAR
Buying Power	:	271,485.37
Order Value	:	18.00
Commission	:	0.20
Net Value	:	18.20
Status	:	Close

Confirm

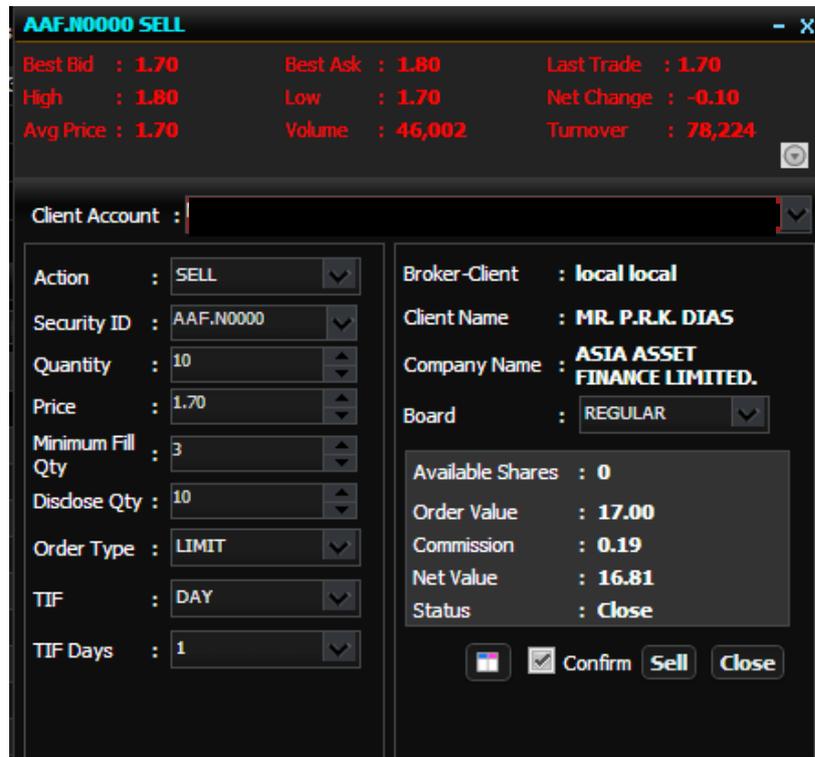
Figure 18: Buy order window

### How to access

- 1) Click on Trade in the main menu, select Buy and then select the security you want to buy.
- 2) Right click on watch list and select Buy.
- 3) Left click on Ask Price or Ask Quantity columns in the watch list.
- 4) Click on Ask Price or Ask Quantity columns in the order book.

## 5.3 Sell Order

This feature allows you to place a sell order to a security. To place a sell order you need to have enough quantity of the particular security in your portfolio.



The screenshot shows a software interface for placing a sell order. At the top, the window title is "AAF.N0000 SELL". Below the title, market data is displayed in red text: Best Bid : 1.70, Best Ask : 1.80, Last Trade : 1.70, High : 1.80, Low : 1.70, Net Change : -0.10, Avg Price : 1.70, Volume : 46,002, and Turnover : 78,224. Below the market data is a "Client Account" dropdown menu. The main order entry area is divided into two columns. The left column contains fields for Action (SELL), Security ID (AAF.N0000), Quantity (10), Price (1.70), Minimum Fill Qty (3), Disdose Qty (10), Order Type (LIMIT), TIF (DAY), and TIF Days (1). The right column contains fields for Broker-Client (local local), Client Name (MR. P.R.K. DIAS), Company Name (ASIA ASSET FINANCE LIMITED.), Board (REGULAR), and a summary box with Available Shares (0), Order Value (17.00), Commission (0.19), Net Value (16.81), and Status (Close). At the bottom right, there are buttons for "Confirm", "Sell", and "Close".

Figure 19: Sell order

### How to access

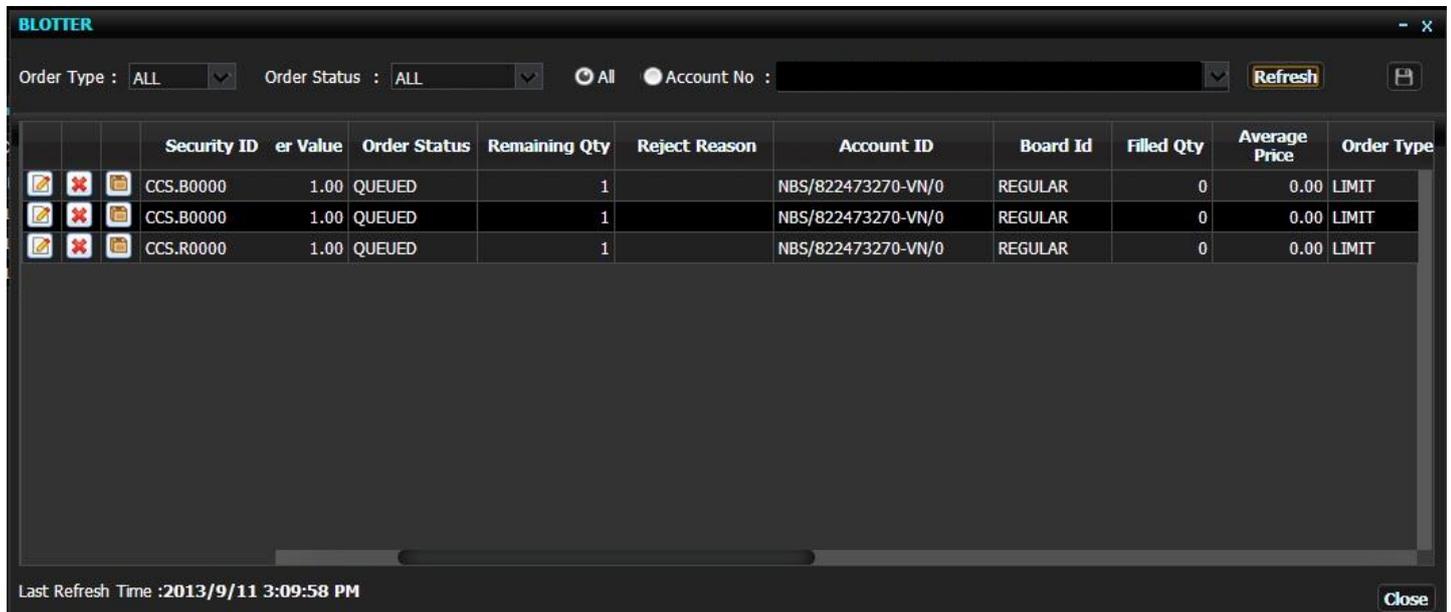
- 1) Click on Trade in the main menu, select Sell and then select the security you want to sell.
- 2) Right click on watch list and select Sell.
- 3) Left click on Bid Price or Bid Quantity columns in the watch list.
- 4) Click on Bid Price or Bid Quantity columns in the order book.

Following table shows you the important terms use in the Buy/Sell order window.

Attribute Name	Description/Formula
<b>Buying Power</b>	Balance of the account position + % of the portfolio
<b>Order value</b>	Quantity*Price
<b>TIF (Time In Force)</b>	Number of market days the order is valid
<b>Day</b>	Order is valid only for the day
<b>GTD (Good Till Date)</b>	Number of market days the order is valid (maximum of 5 days)
<b>GTC (Good Till Cancel)</b>	Order is valid only for 5 market days
<b>Board - Regular</b>	Order execution is subject to prevailing market conditions.
<b>Order Type - Limit</b>	Order execution is subject to prevailing market conditions.

## 5.4 Blotter

This window displays all the orders placed by the user. When you place an order it will display in the blotter. When you right click on blotter you can see a menu with Amend, Cancel and Order History. Amend and Cancel options will be enabled for New and Amend orders only.



The screenshot shows a window titled "BLOTTER" with a dark theme. At the top, there are filters for "Order Type" (set to ALL), "Order Status" (set to ALL), and "Account No." (with a dropdown arrow). There are also "Refresh" and "Close" buttons. Below the filters is a table with the following columns: Security ID, er Value, Order Status, Remaining Qty, Reject Reason, Account ID, Board Id, Filled Qty, Average Price, and Order Type. The table contains three rows of data, all with "QUEUED" status and "LIMIT" order type. The "er Value" column has a small icon to its left. At the bottom left, it says "Last Refresh Time :2013/9/11 3:09:58 PM" and at the bottom right is a "Close" button.

	Security ID	er Value	Order Status	Remaining Qty	Reject Reason	Account ID	Board Id	Filled Qty	Average Price	Order Type
  	CCS.B0000	1.00	QUEUED	1		NBS/822473270-VN/0	REGULAR	0	0.00	LIMIT
  	CCS.B0000	1.00	QUEUED	1		NBS/822473270-VN/0	REGULAR	0	0.00	LIMIT
  	CCS.R0000	1.00	QUEUED	1		NBS/822473270-VN/0	REGULAR	0	0.00	LIMIT

Figure 20: Blotter window

### How to access

- 1) Click on Client in the main menu then select Blotter.

## Order status types can be list down as follows

<b>Order Status</b>	<b>Description</b>
<b>NEW</b>	Order is submitted and accepted by CSE (available in the order book)
<b>PENDING</b>	Submitted to the ATrad server at Broker house. (Not yet submitted to CSE, but in the process of submitting to the CSE)
<b>FILLED</b>	Order is executed at the market.
<b>P.CHANGE</b>	Order amendment is submitted to ATrad server at broker house (Not yet submitted to CSE, but in the process of submitting to the CSE)
<b>AMMEND</b>	Order is amend and accepted by CSE
<b>P.FILLED</b>	Order is partially executed. (remaining Quantity is available in the order book)
<b>P.CANCELED</b>	Submitted to the ATrad server at Broker house. (Not yet submitted to CSE, but in the process of submitting to the CSE)
<b>CANCEL</b>	Order is canceled and accepted by CSE
<b>REJECTED</b>	Order is rejected by CSE
<b>QUEUED</b>	Order is queued at the ATrad server
<b>Q.AMMEND</b>	Order is queued and amended at the ATrad server
<b>Q.CANCEL</b>	Order is canceled and amended at the ATrad server

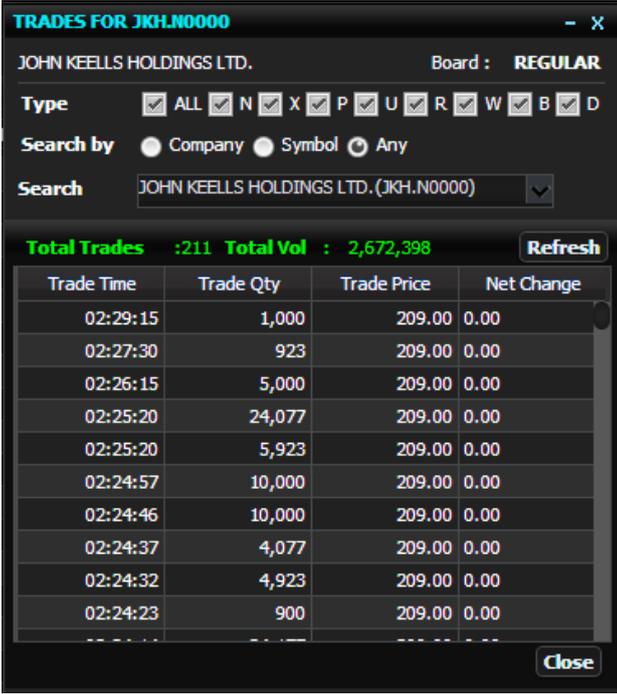
## 6. Statistics Data

This section deals with statistical data of Atrad NextGen Online Trading System.

## 6. Statistical Data

### 6.1 Trade Book

Trade book is used to view the trades of each security during the market trading time. It shows the trading details per day.



**TRADES FOR JKH.N0000** - X

JOHN KEELLS HOLDINGS LTD. Board : **REGULAR**

Type  ALL  N  X  P  U  R  W  B  D

Search by  Company  Symbol  Any

Search JOHN KEELLS HOLDINGS LTD. (JKH.N0000) ▼

**Total Trades :211 Total Vol : 2,672,398** Refresh

Trade Time	Trade Qty	Trade Price	Net Change
02:29:15	1,000	209.00	0.00
02:27:30	923	209.00	0.00
02:26:15	5,000	209.00	0.00
02:25:20	24,077	209.00	0.00
02:25:20	5,923	209.00	0.00
02:24:57	10,000	209.00	0.00
02:24:46	10,000	209.00	0.00
02:24:37	4,077	209.00	0.00
02:24:32	4,923	209.00	0.00
02:24:23	900	209.00	0.00

Close

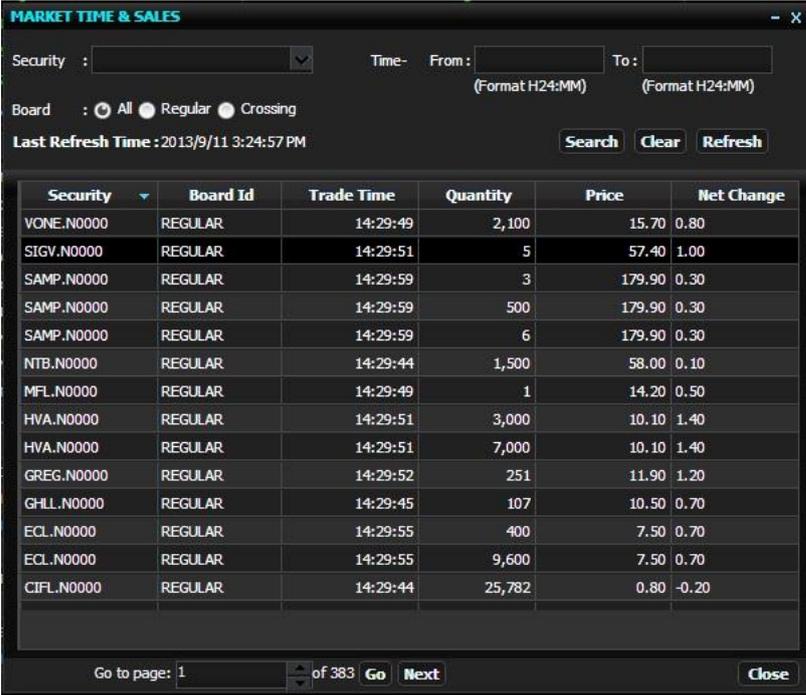
Figure 21: Trade Book

#### How to access

- 1) Click on View in the main menu and select Trade book.
- 2) Click on Ticker Items.
- 3) Click on Trade Price column in the watch list.
- 4) Right click on the watch list and select Trades

## 6.2 Market Time and Sales

This is use to view all the Transactions taken place in the market during the trading time of the day.



The screenshot shows a window titled "MARKET TIME & SALES" with a search interface and a table of transactions. The search interface includes a "Security" dropdown, "Time- From:" and "To:" input fields with "(Format H24:MM)" labels, and radio buttons for "All", "Regular", and "Crossing". Below the search fields, it displays "Last Refresh Time : 2013/9/11 3:24:57 PM" and buttons for "Search", "Clear", and "Refresh". The table below has columns for Security, Board Id, Trade Time, Quantity, Price, and Net Change. The bottom of the window shows "Go to page: 1 of 383" with "Go", "Next", and "Close" buttons.

Security	Board Id	Trade Time	Quantity	Price	Net Change
VONE.N0000	REGULAR	14:29:49	2,100	15.70	0.80
SIGV.N0000	REGULAR	14:29:51	5	57.40	1.00
SAMP.N0000	REGULAR	14:29:59	3	179.90	0.30
SAMP.N0000	REGULAR	14:29:59	500	179.90	0.30
SAMP.N0000	REGULAR	14:29:59	6	179.90	0.30
NTB.N0000	REGULAR	14:29:44	1,500	58.00	0.10
MFL.N0000	REGULAR	14:29:49	1	14.20	0.50
HVA.N0000	REGULAR	14:29:51	3,000	10.10	1.40
HVA.N0000	REGULAR	14:29:51	7,000	10.10	1.40
GREG.N0000	REGULAR	14:29:52	251	11.90	1.20
GILL.N0000	REGULAR	14:29:45	107	10.50	0.70
ECL.N0000	REGULAR	14:29:55	400	7.50	0.70
ECL.N0000	REGULAR	14:29:55	9,600	7.50	0.70
CIFL.N0000	REGULAR	14:29:44	25,782	0.80	-0.20

Figure 22: Market time and sales window

### How to access

Click on View in the main menu and select Market Time and Sale

## 6.3 Statistics

List of statistics for a selected security will be displayed in the statistics window. Statistics are useful to identify the status of the selected security. User can analyze the statistics and get a complete idea about the security.

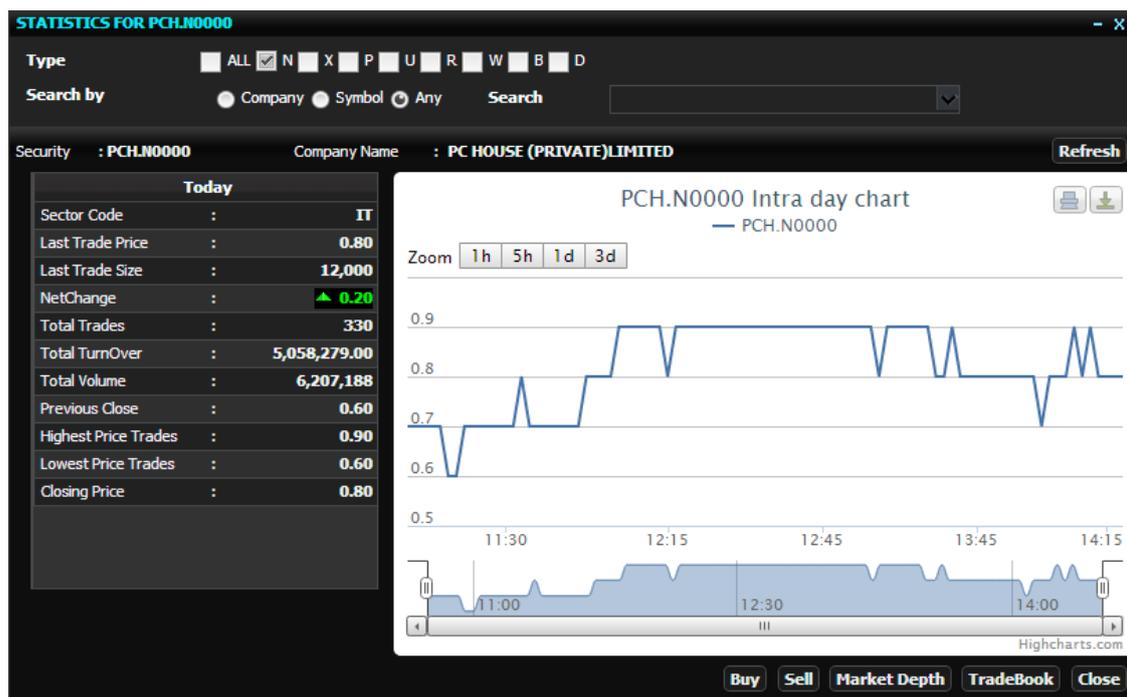


Figure 23: Statistics window

### How to access

- 1) Click on View in the main menu and select statistics.
- 2) Click on the traded size column in the watch
- 3) Right click on the watch and select statistics

## 6.4 Charts

This feature provides the graphical information of the security during the selected time period. You can find the price change, volume change and the indices change during the last selected time period.

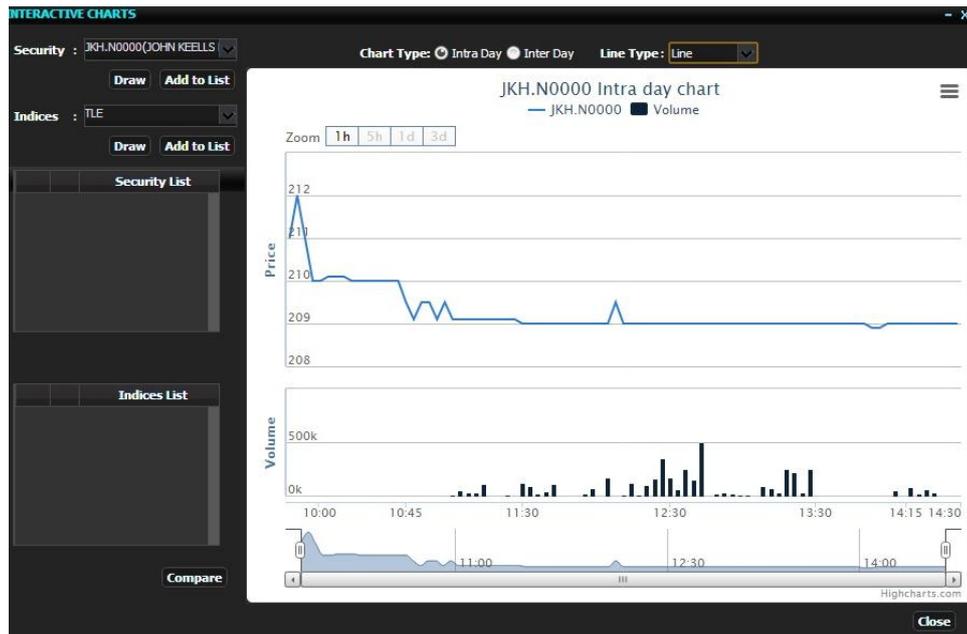


Figure 24: Charts window

### How to access

- 1) Click on Charts in the main menu

### Security Comparison

User can add any number of securities to compare by selecting a security and clicking “Add to List” button. Then user can compare added securities by clicking the “Compare” button.

### Indices Comparison

User can add any number of Indices to compare by selecting an Indices and clicking “Add to List” button. Then user can compare added indices by clicking the “Compare” button.

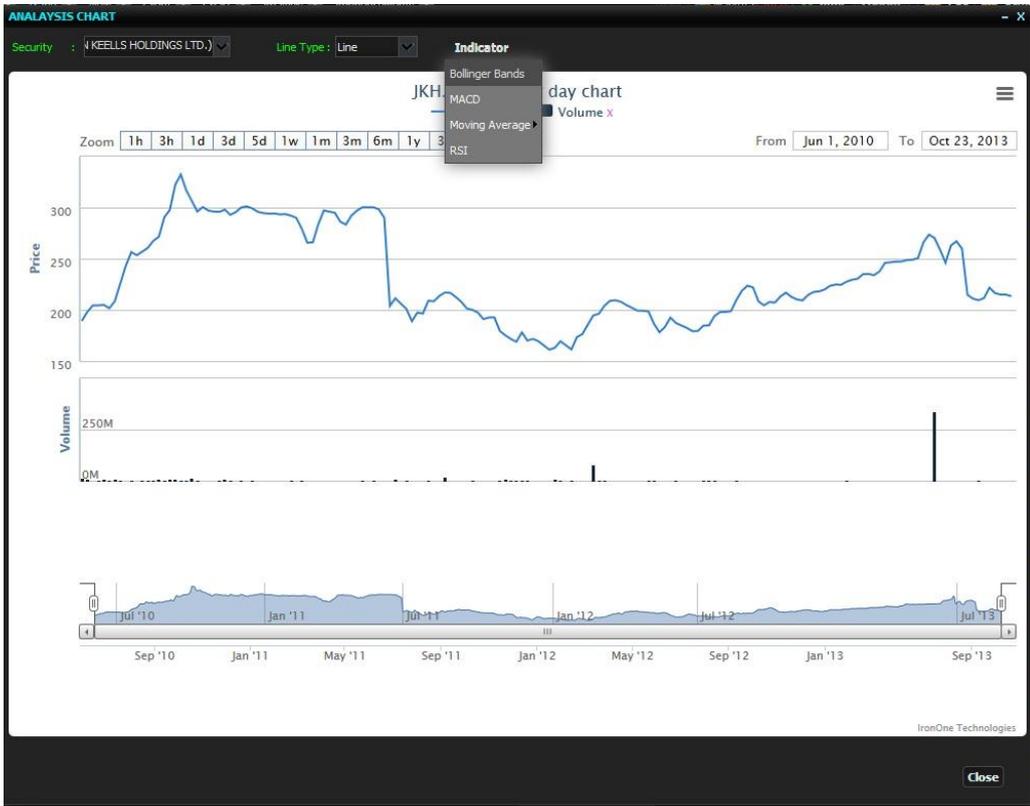
### Security Vs Indices Comparison

User can compare a security against indices by adding them to the list and clicking on the “Compare” button.

# 7. Analysis

## 7.1 Chart

Analysis charts help to analysis securities with various analytical tools. User can select required security on security drop down. Then user can apply various analytical tools by clicking the indicator button.



### Bollinger Bands

Bollinger Bands are displayed as three bands. The middle band is a normal moving average. In the following formula, "n" is the number of time periods in the moving average. User can input custom "method", "Time period" and the "deviation" parameters via "Set Properties for Bollinger Bands" dialog box. Default values are Simple, 21 and 2.0 respectively. User can draw multiple Bollinger bands by passing different parameters. User can hide / unhide and remove the respective technical chart by clicking on the legend and the red color cross sign respectively.

— AAF.N0000 x ■ Volume x — Bollinger Bands Upper (21,2) x — Bollinger Bands(21,2) x — Bollinger Bands Lower (21,2) x

$$Middle\ Band = \frac{\sum_{j=1}^n Close_j}{n}$$

The upper band is the same as the middle band, but it is shifted up by the number of standard deviations (e.g., two deviations). In this next formula, "D" is the number of standard deviations.

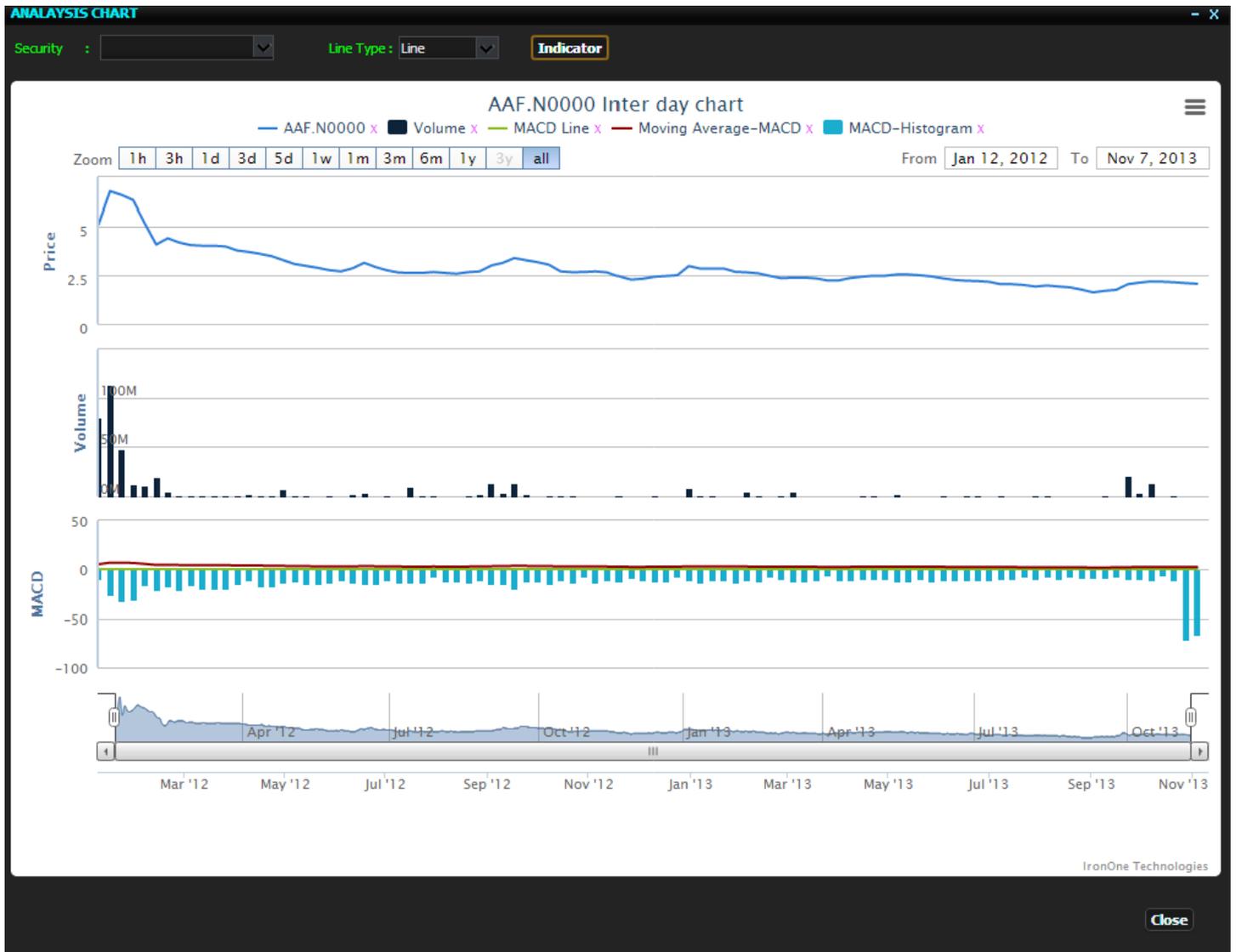
$$Upper\ Band = Middle\ Band + \left[ D * \sqrt{\frac{\sum_{j=1}^n (Close_j - Middle\ Band)^2}{n}} \right]$$

The lower band is the moving average shifted down by the same number of standard deviations (i.e., "D").

$$Lower\ Band = Middle\ Band - \left[ D * \sqrt{\frac{\sum_{j=1}^n (Close_j - Middle\ Band)^2}{n}} \right]$$

## Moving Average Convergence/Divergence (MACD)

The MACD ("Moving Average Convergence/Divergence") is a trend following momentum indicator that shows the relationship between two moving averages of prices. The MACD is calculated by subtracting the value of a 26-day exponential moving average from a 12-day exponential moving average. A 9-day dotted exponential moving average of the MACD (the "signal" line) is then plotted on top of the MACD. User can input custom "Time period" parameter via "Set Properties for Bollinger Bands" dialog box. Default values are 12, 26 and 9 respectively. MACD chart also includes MACD histogram. User can draw multiple MACD by passing different parameters. User can hide / unhide and remove the respective technical chart by clicking on the legend and the red color cross sign respectively.



## Moving Average

A Moving Average is an indicator that shows the average value of a security's price over a period of time. When calculating a moving average, a mathematical analysis of the security's average value over a predetermined time period is made. As the security's price changes, its average price moves up or down. User can input custom "Time period" parameter via "Set Properties for Moving Average" dialog box. Default value 21 days. User can draw multiple Moving average by passing different parameters. User can hide / unhide and remove the respective technical chart by clicking on the legend and the red color cross sign respectively.

### Simple Moving Average (SMA)

A simple, or arithmetic, moving average is calculated by adding the closing price of the security for a number of time periods (e.g., 12 days) and then dividing this total by the number of time periods. The result is the average price of the security over the time period. Simple moving averages give equal weight to each daily price.

Where:

$$n = \frac{\sum_{i=1}^n \text{closing price}}{n}$$

The number of time periods in the moving average

### Exponential Moving Average (EMA)

An exponential (or exponentially weighted) moving average is calculated by applying a percentage of today's closing price to yesterday's moving average value. Exponential moving averages place more weight on recent prices.

### Triangular Moving Average (TMA)

Triangular moving averages place the majority of the weight on the middle portion of the price series. They are actually double-smoothed simple moving averages. The periods used in the simple moving averages varies depending on if you specify an odd or even number of time periods.

### Variable Moving Average (VMA)

A variable moving average is an exponential moving average that automatically adjusts the smoothing percentage based on the volatility of the data series. The more volatile the data, the more sensitive the smoothing constant used in the moving average calculation. Sensitivity is increased by giving more weight given to the current data.

### Weighted Moving Average (WMA)

A weighted moving average is designed to put more weight on recent data and less weight on past data. A weighted moving average is calculated by multiplying each of the previous day's data by a weight.

## RELATIVE STRENGTH INDEX (RSI)

The RSI is a price-following oscillator that ranges between 0 and 100. A popular method of analyzing the RSI is to look for a divergence in which the security is making a new high, but the RSI is failing to surpass its previous high. This divergence is an indication of an impending reversal. When the RSI then turns down and falls below its most recent trough, it is said to have completed a "failure swing." The failure swing is considered a confirmation of the impending reversal. User can input custom "Time period" parameter via "Set Properties for RSI" dialog box. Default value is 14 days

The RSI is a fairly simple formula, but is difficult to explain without pages of examples. Refer to Wilder's book for additional calculation information. The basic formula is:

$$100 - \left( \frac{100}{1 + \left( \frac{U}{D} \right)} \right)$$

Where: U = An average of upward price change.  
D = An average of downward price change.

## 7.2 Whatif Calculator

This is an analytical tool where user can forecast the gain/loss for given date range and given security. Also user can compare the gain/loss of investing in the stock market against the investing in normal fixed deposit. When it comes to decision making this is a very useful tool.

Symbol	:	JKH.N0000(JOHN K
Buy Date *	:	11/5/2012
Sell Date *	:	11/13/2014
Purchased Price per Share *	:	209
Quantity *	:	170
Purchased Commission *	:	397.936
Sold Price per Share *	:	215
Sold Commission *	:	409.36
Holding Period(Days) *	:	738
Average Annual Dividend per Share	:	5
Annual Fixed Deposit Rate	:	6

Flat Rate  Effective Rate

**Tax Settings** **Calculate** **Reset**

---

Total Investments (Rs.)	:	<b>35927.94</b>
Gross Return (Rs.)	:	<b>36140.64</b>
Profit from Stock Sale (Rs.)	:	<b>212.70</b>
Dividends (Rs.)	:	<b>1718.63</b>
Net Return on Stock Investments (Rs.)	:	<b>1931.33</b>
% of Net Return on Stock Investments	:	<b>9.14</b>
Net Return on Fixed Deposit (Rs.)	:	<b>4492.28</b>
% of Net Return on Fixed Deposit	:	<b>12.50</b>
Current Yield (%)	:	<b>2.33</b>
Annualized Holding Period Yield (%)	:	<b>2.66</b>

**Close**

All fields with \* mark are mandatory input fields. That means in order to calculate, user must input all fields with \* mark. If the buy date and sell date are history dates, purchased price per share and sold price per share fields will fill automatically with history data. All commissions are calculated based on current commission rates published by CSE. If required user can change commission values using tax setting window. Annual fixed deposit rate can be inserting either as flat rate or effective rate according to the investment type. When user point mouse pointer to certain value it will show the relevant calculation formula as a tool tip.