

## INTRODUCTION TO BSE – DECEMBER 2022

INDIA'S FIRST UNIVERSAL EXCHANGE

**BSEIndia** 

**B**SEIndia

@BSEIndia

bdm@bseindia.com

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### BSE at a Glance

About BSE Business – C BSE at a Gland					355
Market Capitalization of BSE Listed Companies USD 3.33 Trillion	Registered Investors 115 million+	Equity Cash ADTV (H1 FY23) Rs. 44,010 million	Funds Mobilized Rs. 6.78 Trillion	SME's Listed 393	EXPERIENCE THE NEW Control of the server Control of the server Co
Wutual Funds Registered 41	Wutual Funds Transactions (H1 FY23) 119 million	Cities covered 731	Mutual Fund Distributors 73,600	Insurance Distributors 11,573	<b>Example 2</b> Insurance Premium (H1 FY23) Rs. 132 million
Members Registered 1,302	Consolidated Earnings Per Share Rs. 5.67	Cons. Net Worth - H1 FY 23 Rs. 25,577 million	Cons. Revenue - H1 FY 23 Rs. 4,375 million	Cons. EBITDA Margin - H1 FY 23 16%	Cons. Net Margin- H1 FY 23 16%
		BSE - PUBL	С		Д

Market data as of Sept 30, 2022

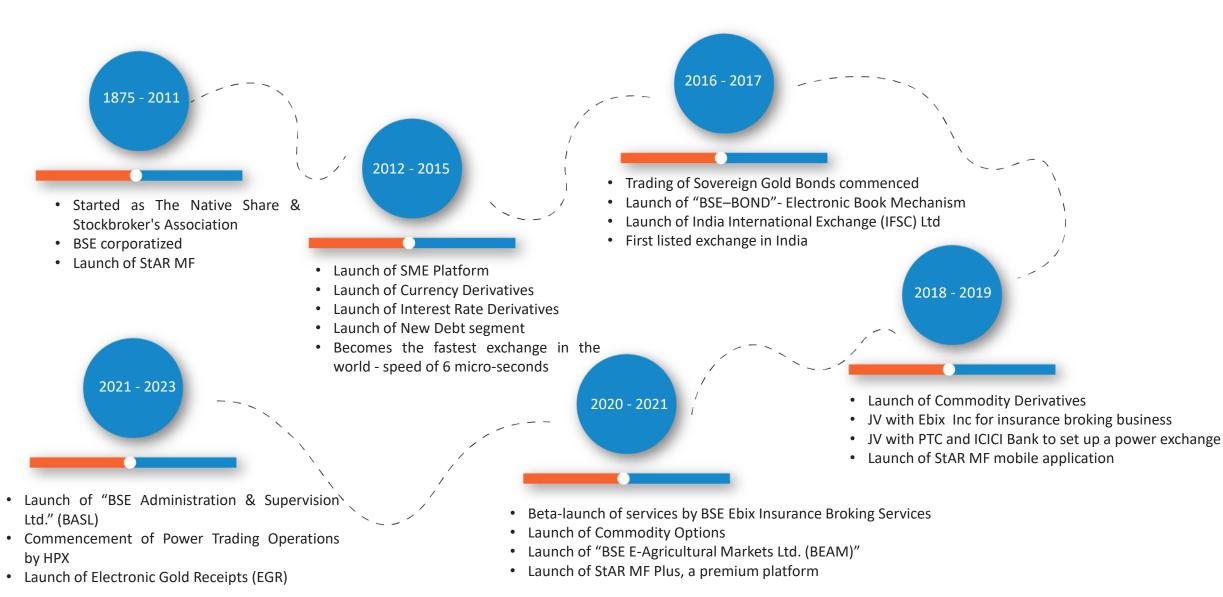
# **BSE's VALUE PROPOSITION**



Key elements	BSE Advantage
Brand name	<ul> <li>Trusted brand name with a presence of 147+ years</li> <li>India's first Universal Exchange and World's largest exchange in terms of companies listed</li> </ul>
Broker / Member Network	<ul> <li>Network of over 1,400 brokers / members</li> <li>2.5 lakh Authorized Persons</li> <li>110 million+ Investor accounts</li> <li>73,600+ Mutual Fund Distributors</li> </ul>
Technology	<ul> <li>In-house technology company for faster go – to – market</li> <li>World's fastest Exchange with a trading speed of 6 microseconds</li> </ul>
Clearing & settlement	<ul> <li>Secure, capital-efficient counterparty risk management and post-trade services provided by ICCL (AAA rated)</li> </ul>
Risk and surveillance	<ul> <li>Robust trading, clearing, risk management, &amp; settlement mechanism</li> <li>First Exchange in India and second in the world to obtain ISO 9001:2000 certification</li> </ul>

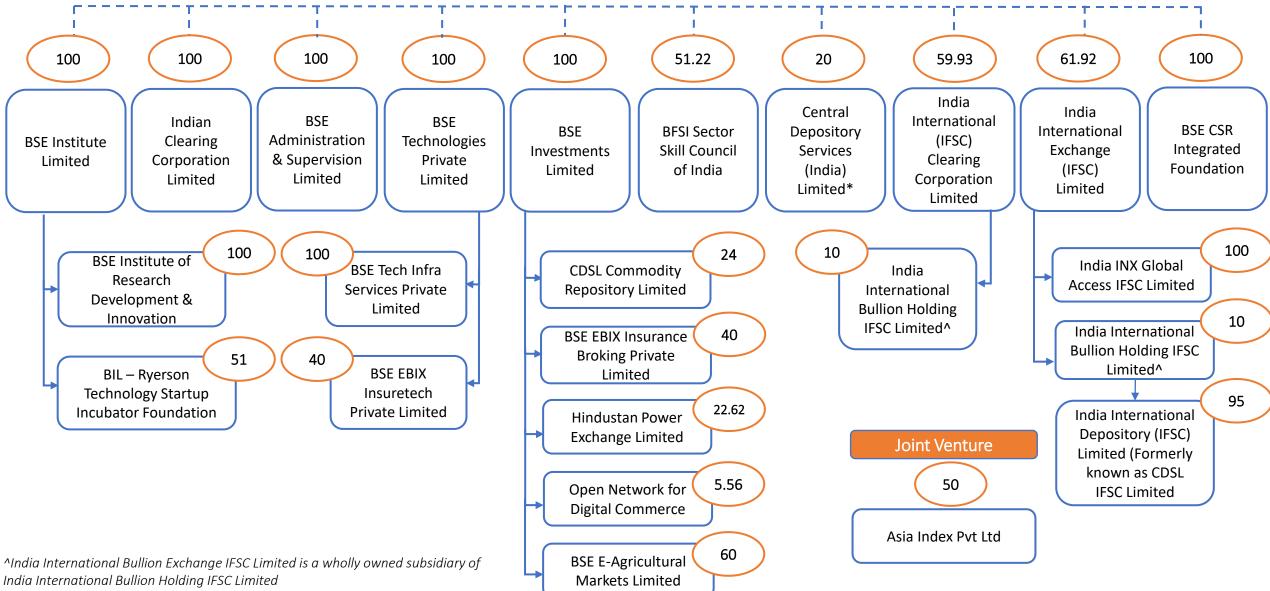
### **Key Milestones – The transformation over time**





About BSE Business – Overview

### **BSE Group**



\*CDSL Ventures Ltd, CDSL Insurance Repository Ltd. & CDSL Commodity Repository Limited are Group companies of CDSL

#### Holding as on September 30, 2022

7



### As on September 30,2022

Category	%
Trading Members & Associates of trading Members	26.03%
Promoter & Promoter Group	0
Public	73.97%
Non Promoter-Non Public	0
Share Underlying DRs	0
Shares held by Employee Trusts	0
Total	100%

### TOP 10 SHAREHOLDERS (As on September 30, 2022)

Life Insurance Corporation of India	5.59 %
Zerodha Broking	3.70 %
Siddharth Balachandran	2.97 %
MSPL Limited	1.33 %
S Gopalkrishnan	1.18 %
Stichting Depositary APG Emerging Markets Equity Pool	1.17%
Jupiter India Fund	0.91 %
Akshay Vasantlal Mehta	0.89 %
Vanguard Total International Stock Index Fund	0.72 %
Vanguard Emerging Markets Stock Index Fund	0.69%

## **BOARD OF DIRECTORS**





Shri S. S. Mundra

Chairman& Public InterestDirector BSE Board On since 2018

Former Deputy Governor, Reserve Bank of / India

Former Chairman & Managing Director of Bank of Baroda



Shri David Wright

Public Interest Director On BSE Board since 2018

Former General Secretary of IOSCO (2012-2016), former Deputy Director-General for Securities and Financial Markets at the ΕU Commission. From March 2000 -October 2010, he was first Director, - then

Director-

General for securities

and financial markets

Deputy



Shri Umakant Javaram Interest Public Director On BSE Board since 2019

28 years Cross functional experience in Global Investment Banking, Finance Planning & Analysis, Risk Consulting / Business transformation

Former Managing Director, Shree Mahila Sewa Sahakari Bank, Ahmedabad In the year 2001, financial literacy programme was introduced in Sewa Bank, first of its kind in India – at initiative of Ms. Jayshree Vyas

Vvas



**Justice Shiavax Jal** Jayshree Sushri Vazifdar Public Interest Public Director Director On BSE Board On BSE Board since 2022 since 2019

> Retired Chief Justice of the Punjab & Haryana High Court Practiced as advocate

Interest

- in the Bombay High Court.
- Appointed Additional Judge of High Court in 2001.



Prof Subhasis Chaudhuri Public Interest Director On BSE Board since 2022

Director of IIT Bombay and K.N. Bajaj Chair Professor, Department of Electrical Engineering. He has 110 journal publications and over 240 conference presentations. has 7 authored monographs and 13

National/International

Patents.



Shri T. C. Suseel Kumar Shareholder's Director On BSE Board since 2020

Former Managing of Life Director Insurance Corporation of India. Played a key role in redefining the business proposition of the Corporation that earned the LIC 'Best Life Insurer Award' by many leading agencies during the year 19-20

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BSE - PUBLIC
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### **MANAGEMENT TEAM**





Shri Neeraj Kulshrestha
➢ Chief Regulatory Officer
➢ With BSE since 2015



Shri Nayan Mehta
➢ Chief Financial Officer
➢ With BSE since 2012



Shri Kersi Tavadia
➢ Chief Information Officer
➢ With BSE since 2010



Shri Sameer Patil
≻ Chief Business Officer
≻ With BSE since 2015

 Shri Girish Joshi
 ➢ Chief Trading Operations and Listing Sales
 ➢ With BSE since 2010

- Prior to BSE he was an Executive Director in Morgan Stanley India for a decade
- Earlier at National Stock Exchange where he managed functions like Trading Operations, Inspection, Investigation, Futures & Options Clearing and Trading, CEO of India Index Services and Dotex International
- Three decades of experience in Capital markets, which includes Securities Markets and General Insurance
- Experience of over three decades, earlier worked at Credit Analysis & Research Ltd as Joint General Manager (Accounts), and as CFO at Multi Commodity Exchange of India Ltd
   Worked at the National Stock Exchange ("NSE")
- Represents BSE on the Boards of group and associate companies of BSE

 Prior to joining BSE, employed with Login Utility and InvestSmart Financial Services
 More than 3 decades of experience in areas of Application Systems/ IT Infrastructure development and management, managing all aspects of IT operations in Capital markets and manufacturing companies
 Played a leading role in transforming BSE into the

- Instrumental in setting up and responsible for Business Development of INDIA INX at GIFT CITY IFSC
- More than 2 decades of experience in financial sectors like Commodities, Currency Derivatives, Indices etc. and has experience in Trading, Hedging Strategies, Product Designing and Business Development
- Associated with MCX since inception for more than a decade as Senior Vice President

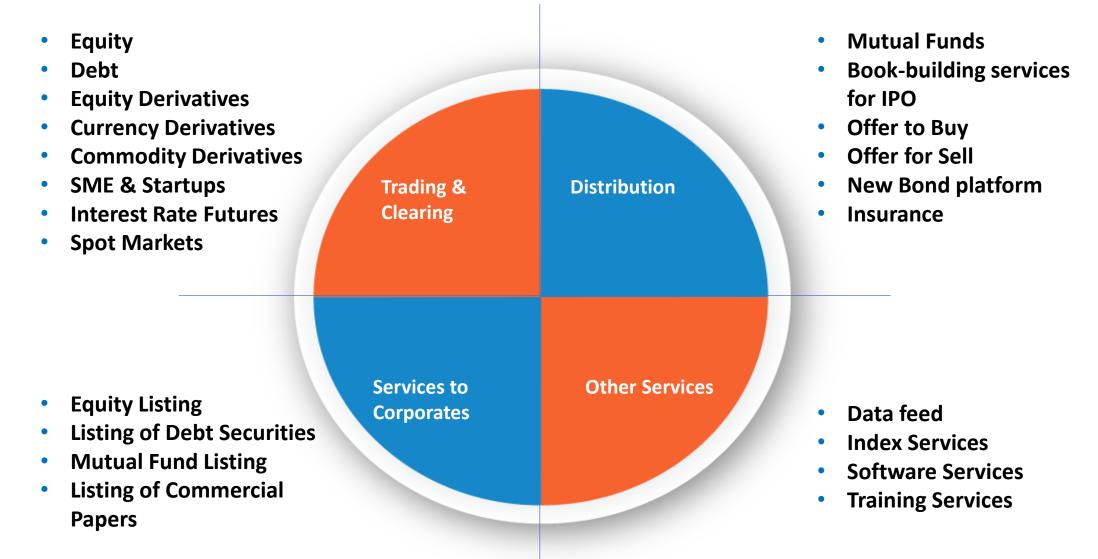
Worked with ICICI Bank Group for a decade in various areas like ICICIDirect.com, Treasury Mid Office, Regulatory Reporting and Monitoring at CFO office

One of the earliest core team members involved in the set-up of National Stock Exchange ("NSE"), and in 7 years at NSE he worked in Wholesale Debt Market and post trade functions

fastest exchange in the country

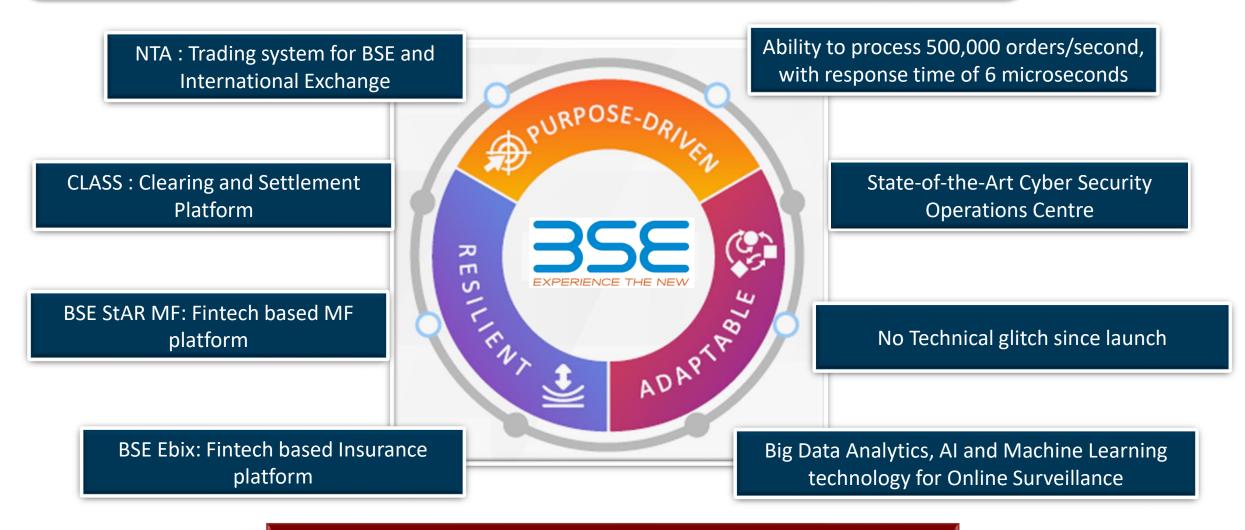
## **Diversified Lines of Business ..**





## **KEY PLATFORMS AND TECHNOLOGY PROWESS**





BSE has obtain ISO 27001:2013 for Information Security Management and ISO 22301:2012 for Business Continuity Management System



### FUNDS MOBILIZED USING BSE PLATFORM (EQUITY AND DEBT)



Particulars	FY 2022-23* (Rs. in crores)	FY 2021-22 (Rs. in crores)	FY 2020-21 (Rs. in crores)
Debt	2,66,347	3,98,379	5,55,533
Equity	96,206	1,73,023	2,18,421
InvIT's	750	9,484	25,215
REIT's	_	-	4,245
Commercial Paper	5,33,629	12,61,956	10,52,952
Total	8,96,932	18,42,842	18,56,366

4,814 Companies listed with Equities

Market

Capitalization of BSE Listed Co. is Rs.

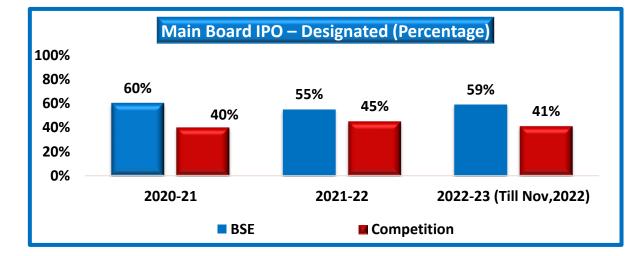
2,89,85,893.4 5 crores

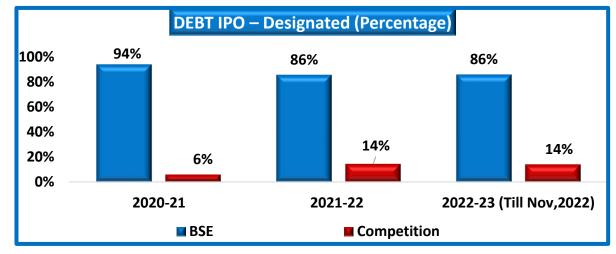
Note - Debt Includes: Private Placement of Debt Instruments and Public Issue Bonds Equity Includes: Main Board IPO/FPO, SME IPO/ FPO, BSE SME Start-up, Preferential, QIPs and Rights Issues

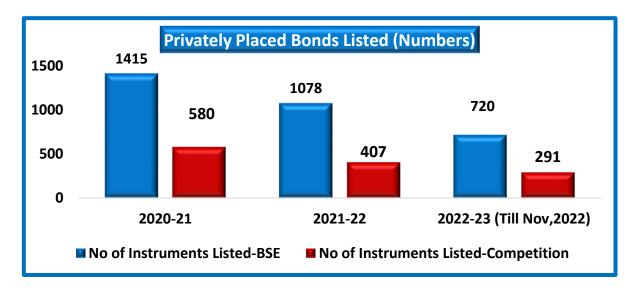
InvIT's, REIT's and Commercial Paper are on standalone basis

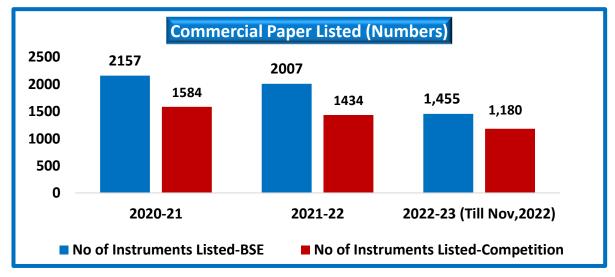
### **BSE LEADERSHIP**





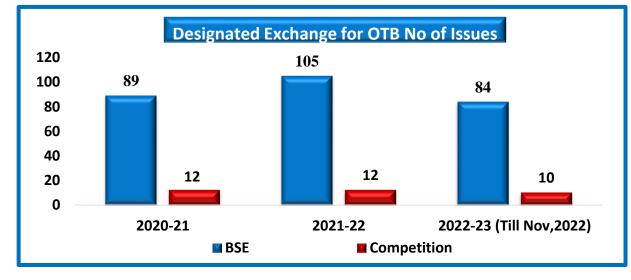


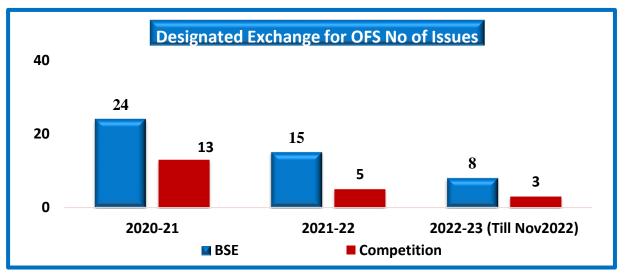


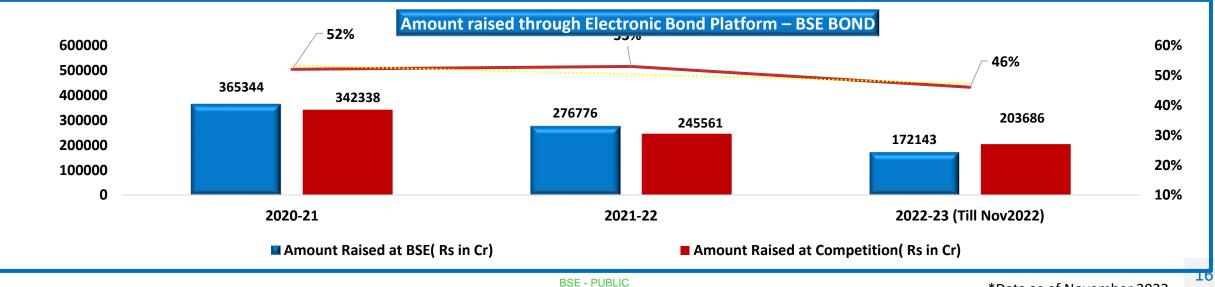


### **BSE LEADERSHIP**



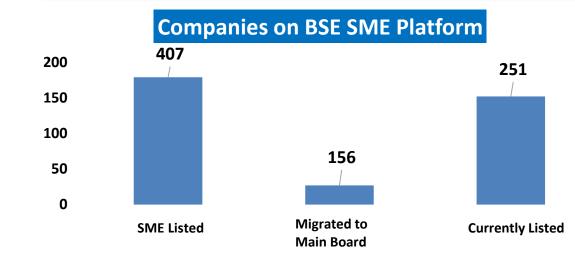






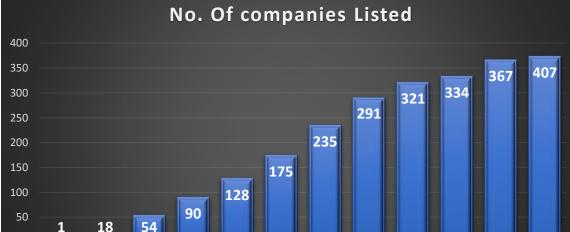
### **BSE SME – INDIA'S BIGGEST SME PLATFORM**





- BSE is the first stock exchange in India to receive approval from SEBI on 26th September 2011 to launch SME Platform.
- SME IPO Index with a Base value of 100 as on 16<sup>th</sup> August, 2012 is aimed at tracking the companies listed on SME platform was launched on 14<sup>th</sup> December 2012. As on 30th November, 2022 its value was 20,514.52
- The Platform facilitates capital raising by small and medium enterprises including start-up companies which are in their early stages of growth.
- Total number of Companies listed on SME till date -407
- Total Market Capitalization of companies listed on SME till date 63,592 Crs. \*(USD 7850.86 Million). Conversion rate is taken \$1= Rs. 81.





2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 2018-19 2019-20 2020-21 2021-22 2022-23

**Financial Year** 

### Data as of November- 2022

### **BSE STARTUPS – INDIA'S 1<sup>ST</sup> STARTUP PLATFORM**

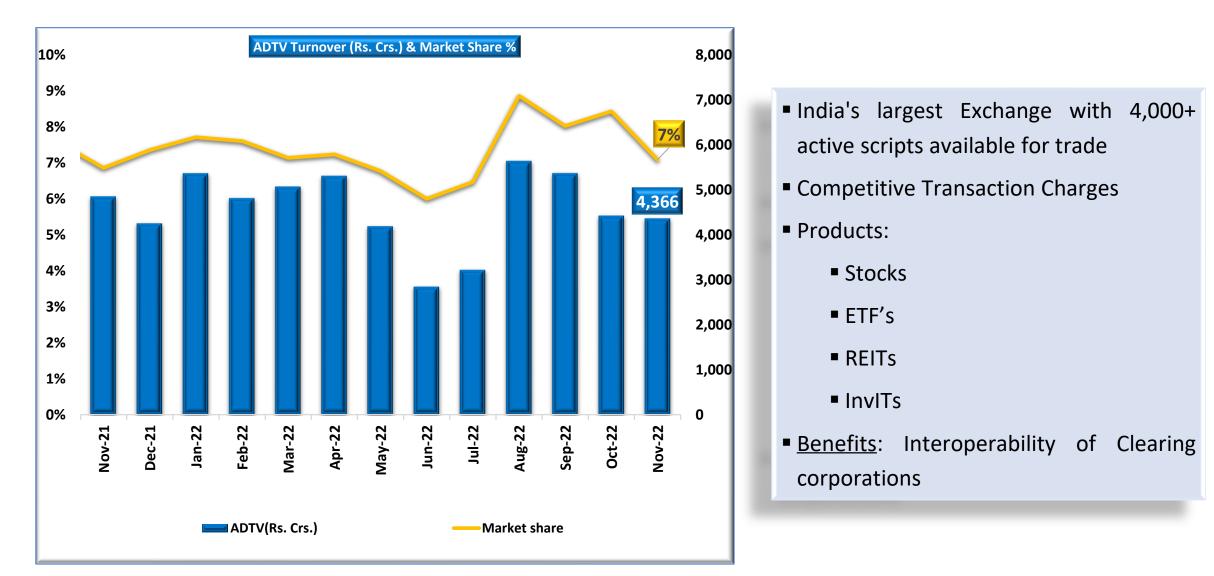
- BSE is the first stock exchange in India to launch Startups Platform on 22<sup>nd</sup> December 2018 under SME segment
- The 'Startup Companies' seeking to be listed on the BSE Startups Platform should be in the sector of IT, ITES, Bio-technology and Life Science, 3D Printing, Space Technology, E-commerce, Hi-tech Defence, Drones, Nano Technologies, Artificial Intelligence, Big Data, Augmented/Virtual Reality, Egaming, Exoskeleton, Robotics, Holographic Technology, Genetic Engineering, Variable Computers Inside Body Computer Technology and other high-tech industries.
- Total number of companies listed 14
- Market Capitalization Rs. 930.33 Crs \*(\$114.85. millions) \*(Conversion rate is taken \$1 = Rs. 81).



100% of Market Share in terms of number of Startups listed









- Products: Futures / Options on Sensex, Sensex 50, Bankex and single-stocks
- 7 weekly and 3 Monthly Derivative Contracts
- Save upto INR 1.13 lakhs on a round-trip transaction exposure of INR 10 crores due to no transaction charges
- One standard deposit at BSE for all trading segments
- Multi-legged order entry facility

### **Regulatory Benefits**

- Interoperability of clearing corporations of stock Exchanges
- Cross-Margining benefits to the tune of 70% hedge with Nifty 50

## **CURRENCY DERIVATIVES**





- Monthly and Weekly Contracts Offered on: USDINR, EURINR, GBPINR, JPYINR
- The most cost-effective exchange for hedging currency risk Capping transaction charges at maximum of INR 3 lakhs, as compared to upto INR 18 lakhs at other venues
- Robust risk management systems.
- Innovative Products and Features.
- Banks, Foreign Portfolio Investors, Proprietary brokers, Corporates, Retail Clients etc. participâte on BSE CDX



DELIVERY DETAILS SINCE LAUNCH							
Commodity	Total Physical quantity of delivery	Unit					
GOLD	12	KG					
GOLDM	21100	GRAM					
SILVER	7470	KG					
TURMERIC	770	MT					
STEEL	450	MT					
ALMOND	242000	KG					
COTTON J34	1600	BALES					

Commodities Transaction charges							
Futures	Rs. 2 Per Crore						
Options	Transaction Charges on Active and Passive Orders -Rs.10 Per Crore of premium turnover						

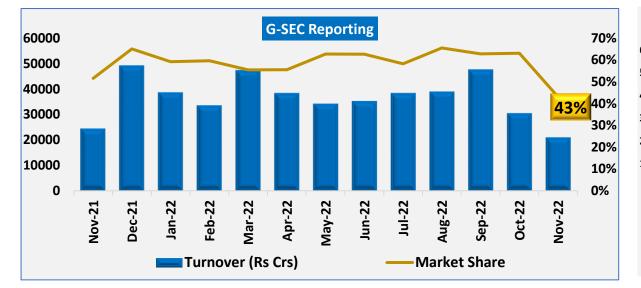
- Commodity Derivatives launch: Oct 1, 2018
- Diversified Product Profile
  - Precious Metals: Gold and Silver
  - Base Metals: Steel
  - Agri: Cotton J34, Turmeric and Almond
- Physical Deliveries an integral part of BSE commodity platform
- First exchange in India to implement negative price trading facility
- Waived off many cost associated with delivery of Commodity on its platform such as Storage and assaying charges.
- Accepts BIS Standard Gold/Silver bars along with LBMA on the platform.



Fixed Income Products	Key Highlights
Reporting and Settlement Platform (NDS-RST)	<ul> <li>Facility to report and settle Corporate Bond and Government Securities (G-Sec)</li> <li>Facility to settle Commercial Paper and Commercial Deposits</li> <li>Zero Charges for reporting and settlement</li> <li>Excellent Support Assistance</li> <li>BSE had a Market Share of 32% in Corporate Bond and 58% in Government Securities reporting for FY 21-22</li> </ul>
Request For Quote Platform (RFQ)	<ul> <li>Web based platform for trade and settlement of Corporate Bonds and CP/CDs</li> <li>Zero Charges for trading, reporting and settlement</li> <li>Excellent Support Assistance</li> <li>BSE's RFQ Volume was 8,610 crores for FY 21-22</li> </ul>
Retail Trading (Corporate Bonds & G-Sec)	<ul> <li>All the BSE listed bonds available for trading in F-Group of Equity Cash Segment</li> <li>All G-Sec, G-Sec STRIPS, SDL and T-Bills are available for trading in G Group of Equity Cash Segment</li> <li>BSE had a Market Share of 65% in for FY 21-22</li> </ul>
NCB G-Sec	<ul> <li>BSE provides an online bidding platform "NCB – G-Sec" for collecting bids from members on behalf of their clients</li> <li>No. Bids collected through BSE's NCB G-Sec Platform was 11,899 up to May -22</li> </ul>
Interest Rate Derivatives	<ul> <li>BSE offers Interest Rate Futures (IRF) and Interest Rate Options (IRO) in various tenors of Government Securities</li> <li>BSE had a Market Share of 57% for FY 21-22</li> </ul>
Tri-Party Repo	Basket Repo with settlement Guarantee   Special Repo without settlement Guarantee
Anonymous Trading Platform	A dedicated platform for anonymous order matching in Corporate Bonds for trading members

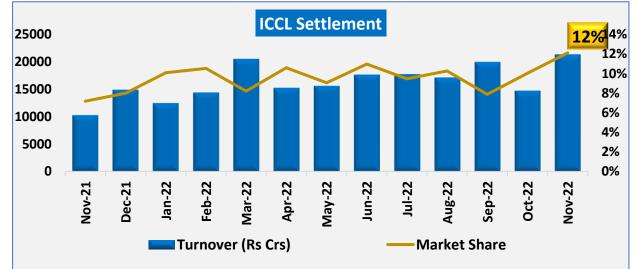
## **FIXED INCOME SEGMENT**









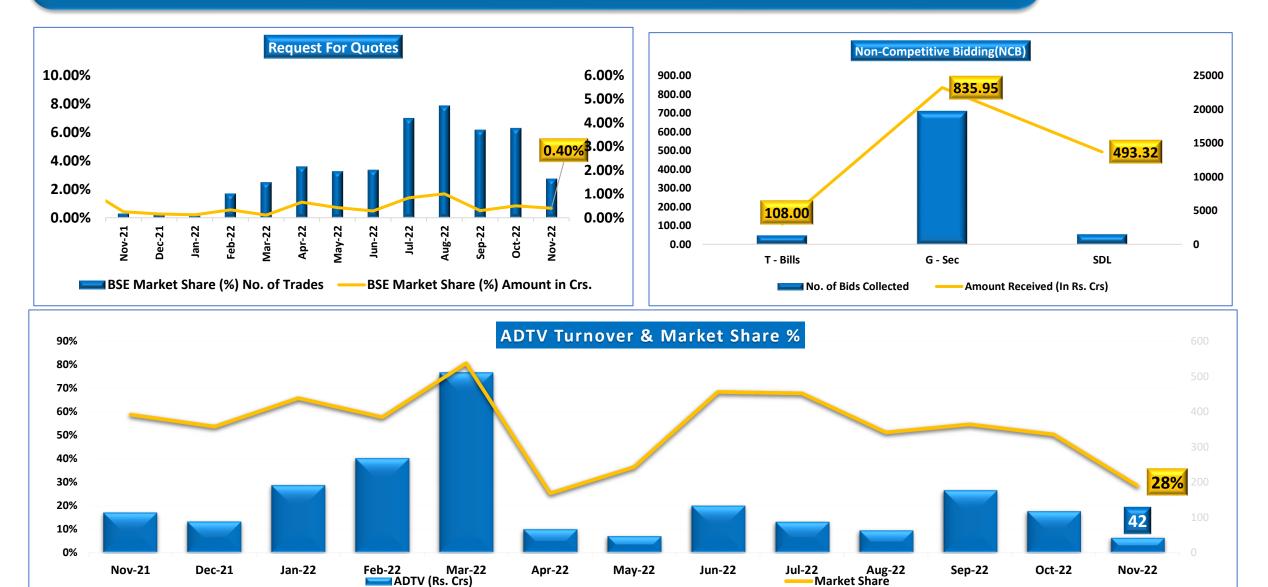


Data as of Novemberr 2022

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### **FIXED INCOME SEGMENT**





Data as of November 2022

**BSE - PUBLIC** 

ADTV (Rs. Crs)

**Z**6



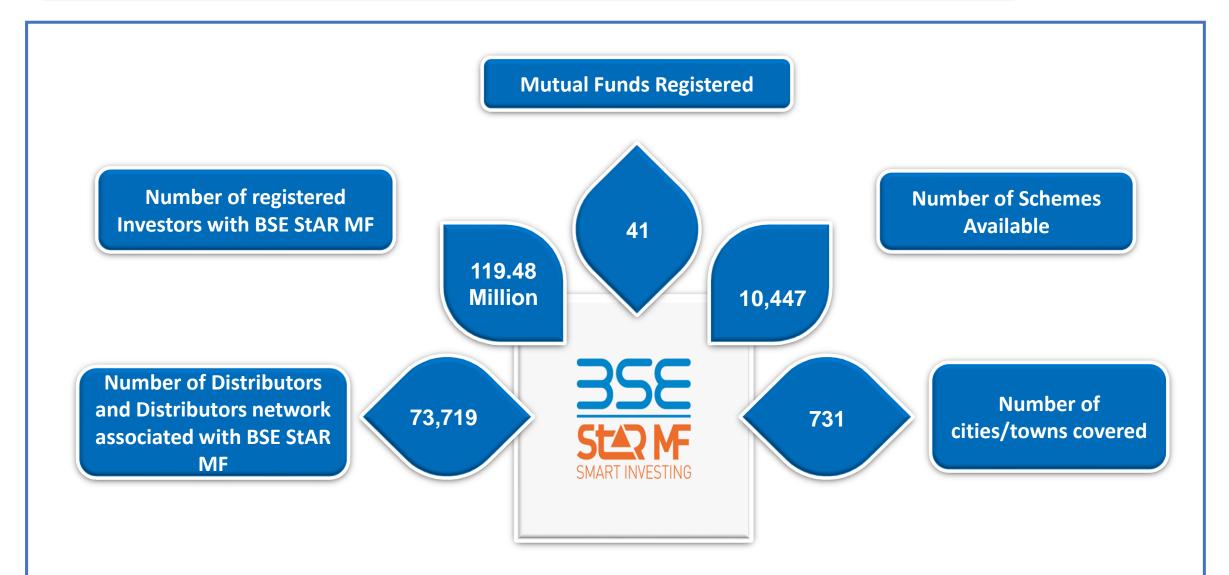
Segment	BSE	NSE	MSEI	MCX	NCDEX			
Equity Cash								
Turnover < 1250 Crores	375	345						
Turnover between 1250 - 2500 Crores	375	340						
Turnover between 2500 - 5000 Crores	375	335						
Turnover between 5000 - 10000 Crores	375	330						
Turnover between 10000 - 15000 Crores	375	325						
Turnover between > 15000 Crores	375	320						
Equity Derivative	s - Futi	ures						
Segment	BSE	NSE	MSEI	MCX	NCDEX			
Turnover < 2500 Crores	0	200						
Turnover between 2500 - 7500 Crores	0	195						
Turnover between 7500 - 15000 Crores	0	190						
Turnover > 15000 Crores	0	185						
Equity Derivatives - Options (	on Pre	mium	Turnov	/er)				
Segment	BSE	NSE	MSEI	MCX	NCDEX			
Premium Turnover < 3 Crores	500	2500						
Premium Turnover between 3 to 100 Crores	500	5300						
Premium Turnover between 100 to 750 Crores	500	5050						
Premium Turnover between 750 to 1500 Crores	500	4550						
Premium Turnover between 1500 to 2000 Crores	500	4050						
Premium Turnover > 2000 Crores	500	3300						

Currency Derivatives - Futures								
Segment	BSE	NSE	MSEI	МСХ	NCDEX			
Turnover < 1000 Crores	25	90	90					
Turnover between 1000 - 2000 Crores	25	80	80					
Turnover between 2000 - 3000 Crores	25	70	70					
Turnover between 3000 - 5000 Crores	25	35	70					
Turnover between 5000 - 10000 Crores	20	35	70					
Turnover between 10000 - 20000 Crores	15	35	70					
Turnover > 20000 Crores	10	35	70					
Currency Derivatives - Options								
Segment	BSE	NSE	MSEI	МСХ	NCDEX			
Premium Turnover < 50 Crores	100	3500	3500					
Premium Turnover between 50 to 100 Crores	100	3000	3000					
Premium Turnover > 100 Crores	100	2500	2500					
Commodity Deriv	vatives -	Future	S					
Segment	BSE	NSE	MSEI	МСХ	NCDEX			
Turnover < 100 Crores	2	0		260	600			
Turnover between 100 - 300 Crores	2	0		260	450			
Turnover between 300 - 350 Crores	2	0		260	350			
Turnover > 300 Crores	2	0		175	350			
Commodity Deriv	atives -	Option	S					
Transaction Charges per crore	10	0		5000	3000			

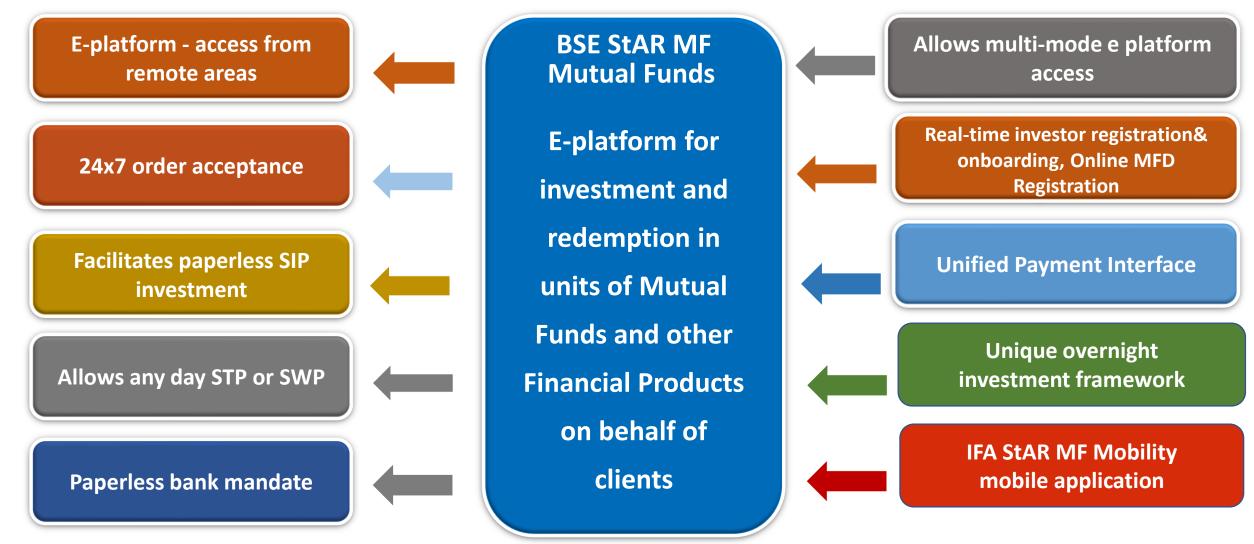
Interest Rate - Futures					
Interest Rate Derivatives - Futures	10	15	15		

# BSE STAR MUTUAL FUND PLATFORM – PAN INDIA REACH & COVERAGE









## WHY STAR MF

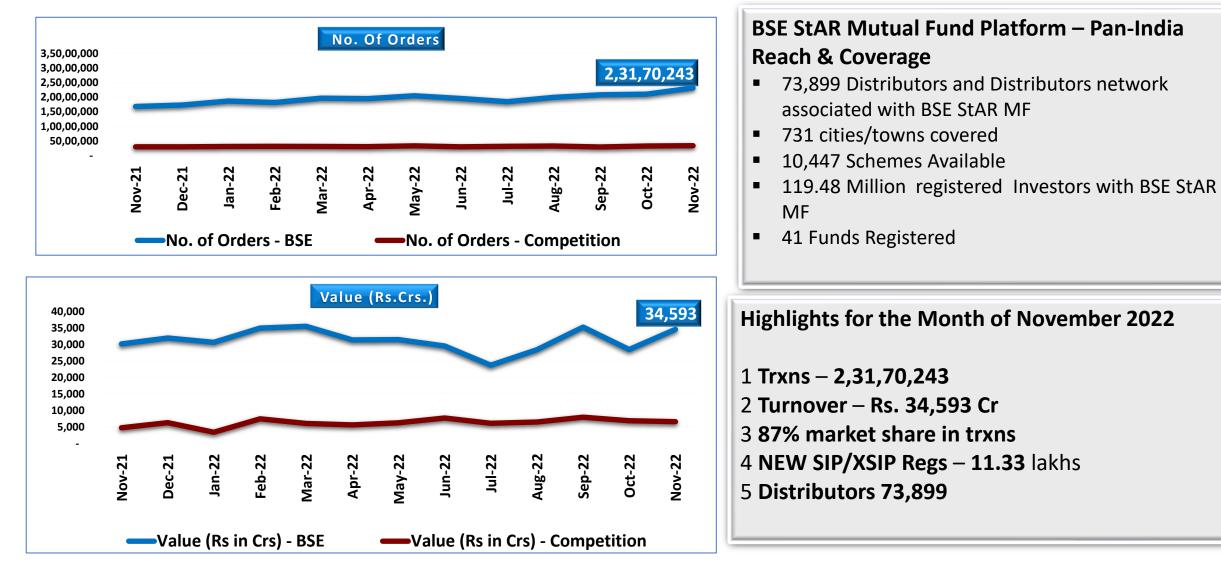




### **StAR MF Plus - a premium platform for Distributors and Advisors**

## STAR MF-INDIA'S LARGEST ONLINE MF DISTRIBUTION PLATFORM

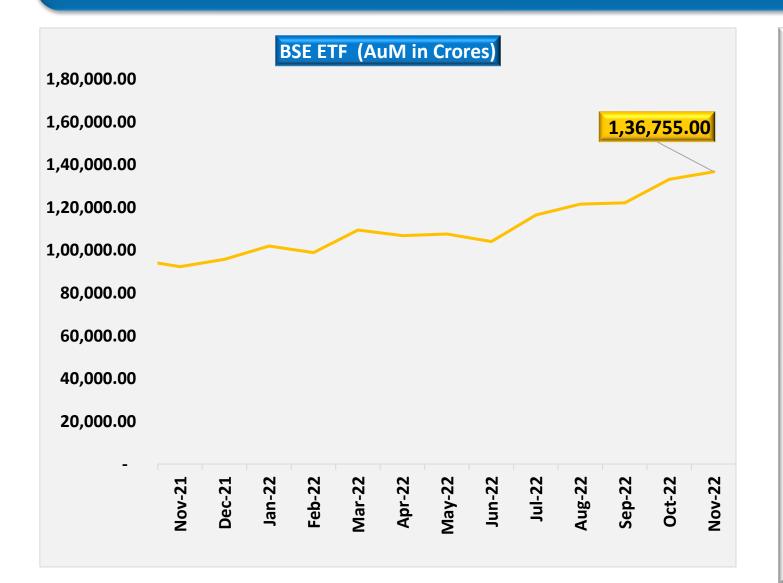




For Registration Process, refer : http://ir.bseindia.com/mfdforms/members/LoginMF.aspx?expandable=o

## **ETF's BASED ON S&P BSE INDICES**





- ETF is a security that tracks an index, a commodity or a sector like an index fund or a sectoral fund but trades like a stock on an exchange
- Most common types of ETFs in India:
  - Equity ETF
  - Precious Metal ETF
  - Liquid ETF
- EPFO invests 15% of its investment corpus in large cap ETFs including S&P BSE Sensex based ETF's
- BSE in its effort to bring greater participation for retail investors in the Indian landscape has tied up with market makers for ETF's
- As of October 2022, S&P BSE based ETF's asset base has reached Rs. 1,33,201.00 crores, of which ETF based on S&P BSE Sensex Index accounts more than 90%



Insurance Broking	Power Exchange	E-Platform Services	KYC KRA
<ul> <li>Commenced insurance broking in Motor, Health and Life Insurance</li> <li>Continuous growth of Daint</li> </ul>	<ul> <li>Setup Hindustan Power Exchange jointly with Power Trading Corporation and ICICI Pank</li> </ul>	<ul> <li>Launched an electronic spot platform for commodities - "BSE E-Agricultural Markets Ltd (BEAM)</li> </ul>	<ul> <li>On 27th October 2022, BSE Technologies Private Limited (BTPL), a 100% subsidiary of BSE</li> </ul>

- Continuous growth of Point of Sales
- Product diversification
- Software integration with various insurance companies

- вапк
- CERC granted registration to establish and operate a power exchange on May, 12, 2021
- Likely to commence operations in first quarter of FY22-23

- LLU. (DEAIVI)
- TReDS platform via BSE Technologies for facilitating financing/discounting of trade receivables of MSMEs through multiple financiers
- became the sixth institution to launch KYC Registration Agency (KRA)
- Entity will focus on achieving inclusive investor reach in the securities market











### **DATA BUSINESS PRODUCTS**

**Market Data** 

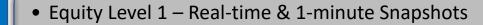
Corporate

Data

End of day

or Historical





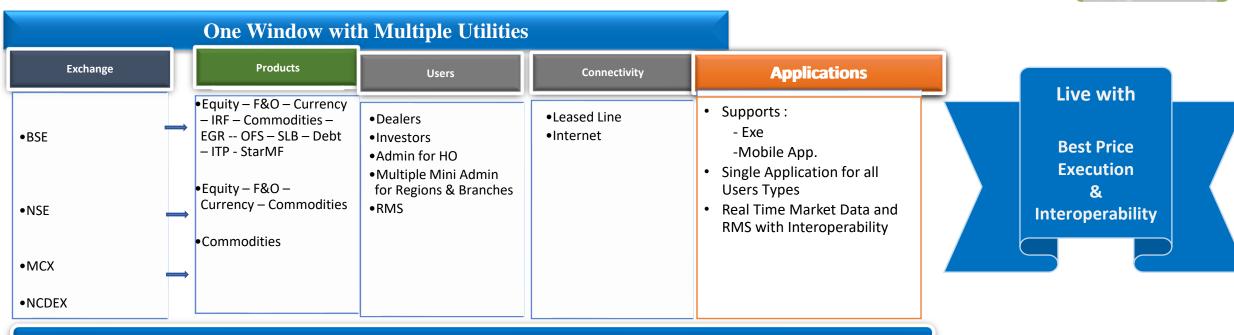
- Equity Level 2 Real-time
- Indices Real-time & 1-minute Snapshots
- Derivatives (Equity , Index , Currency & Interest Rate Derivatives) Real-time

- Corporate Announcement
- Financial Results
- Shareholding Pattern
- Corporate Action through SWIFT

- Quotation files
- Annual report
- Daily Bulletin
- Sector Classification
- Trade and Order book data



## **BOLT PLUS – HOSTED MEMBER TRADING INTERFACE**



### **Application for Desktop and Mobile**

- Single window for Multi Exchange Segments with all Asset Class.
- Combined Market Depth.
- Facility of After Market Orders (AMO).
- Real Time Margining and Risk Monitoring with Interoperability.
- DP / T1 holding upload with haircut percentage
- MTM Based Single Click Auto square Off. Timer Based Square off.
- Top Gainers / Top Losers Most Active by VOLUME / VALUE.
- Corporate Action Information.
- Market Analytics Integration in Mobile
- NEWS Plus with RSS feeds and Twitter.

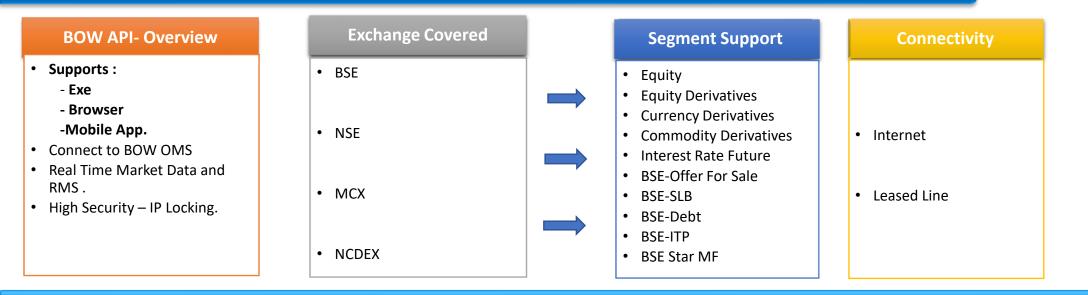
- No IT infrastructure cost to the Member.
- Completely Hosted Application.
- Single Application for all Users Types .
- Trade commencement in one day.
- Real time support services.
- Payment Gateway Integrated with Bill Desk
- Bolt+on web (BOW)- Free of cost for all Members

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# **BOW API – BUILD YOUR OWN TRADING FRONT END**



### Single API Interface to Trade on Multi Exchange segments



### Key Advantage & Offerings

### Multi Fold Advantage:

- Encourage members/Vendors to develop their OWN Front-End.
- Members Can use Hosted BOW's Robust OMS and RMS
- No impact of exchange mandated changes on API users
- **\*** No IT infrastructure / Connectivity cost to the Member.

- Key Offerings:
  - Real Time market data to display in innovative ways.
  - Order & Trade Management, User Management
  - Best Price Execution
  - Real Time Margining and Risk Monitoring with Interoperability
  - Risk Management through BOW Admin interface
  - DP / T1 holding upload with haircut percentage
  - Payment Gateway interface
  - Report Management

## Multi Exchange Risk Management System – MERMS-ICCL



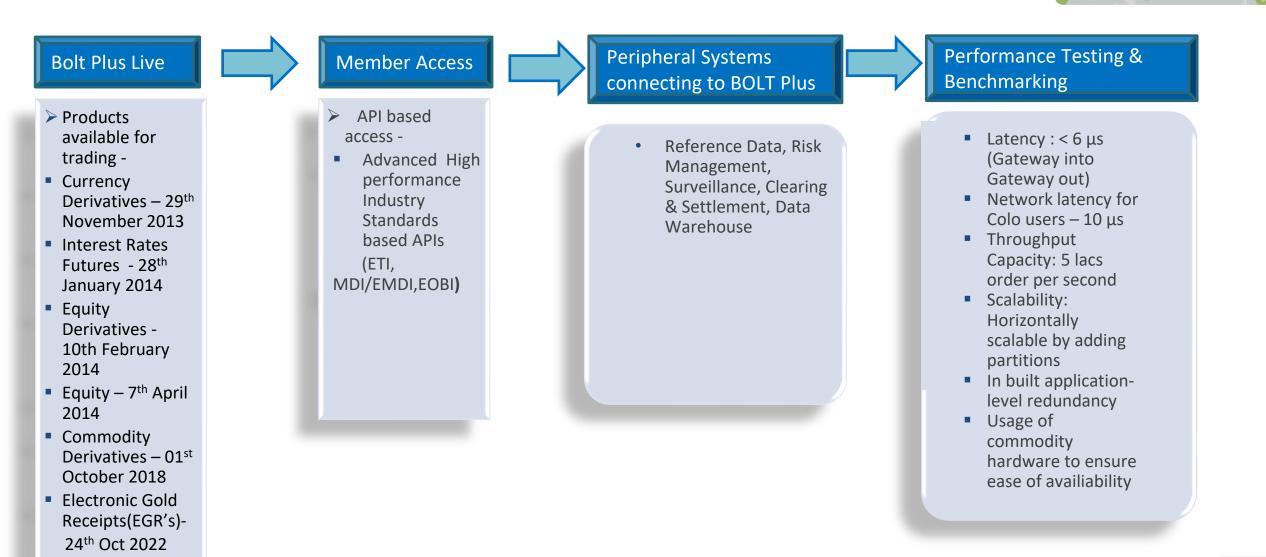
### Single API Interface to Validate Pre Trade Risk Management for Multi Exchange segments

MERMS API- Overview	Key Offerings & Risk Parameters		
<ul> <li>MERMS is hosted application for ICCL Members.</li> <li>Facilitates Risk Management services.</li> <li>Validation of Orders generated from.         <ul> <li>Client Software</li> <li>Algo Software</li> </ul> </li> <li>ICCL Members can Monitor &amp; control Limits &amp; Risk Management of TM</li> </ul>	<ul> <li>Key Offerings:</li> <li>Client software connection to MERMS</li> <li>Single Interface to Validate pre trade orders for Multi exchanges.</li> <li>Real time Pre trade risk management to multiple exchanges</li> <li>MERMS terminal to set risk parameters at Trading Member level</li> </ul>	Risk Parameters: <ul> <li>❖ Risk management at Member Level</li> </ul> <li>❖ Risk Parameters <ul> <li>✓ Margin</li> <li>✓ MTM</li> <li>✓ Turnover</li> <li>✓ Exposures</li> <li>✓ Order Value &amp; Limits etc.</li> </ul> </li>	Exchanges: BSE, NSE, MCX and NCDEX. Segments: <ul> <li>Equity</li> <li>Equity Derivatives</li> <li>Currency Derivatives</li> <li>Interest Rate Future</li> <li>Commodity Derivatives</li> <li>BSE SLB</li> <li>BSE DEBT</li> <li>BSE Repo</li> <li>BSE ITP</li> </ul>

### Key Advantages

- **\*** Robust Comprehensive Single Interface RMS for Multi Exchange.
- Monitor and Control Trading Member Risk Management .
- **\*** Prevention of Erroneous orders before sending to Exchange based on risk parameters set
- **\*** No IT infrastructure / Connectivity cost to the Member.

# **BSE's – WORLD CLASS TRADING INFRASTRUCTURE**



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## **TECHNOLOGY PROGRAMME – CO-LOCATION FACILITIES**

### **Fastest Co-location**

- BSE is the fastest Exchange in the world with a speed of 6 microseconds.
- The Exchange has setup a State-of-the-art Data Centre to manage the co-location facilities.
- It is the fastest Co-location service in India with round trip network latency of less than 10 microseconds.
- The response for an order has round trip latency of about 16 microseconds (including 10 microseconds of Co-location network latency).
- Market access across Equity, Equity Derivatives and Currency Derivatives segments.
- Extension of Precision Time Protocol (PTP) from BSE's Grandmaster clock to the Co-location enables members to synchronize with the Exchange clock.
- Equitable distribution of market data to all members by usage of same length cables for all members.
- Full order book multicast (EOBI) is provided to Co-location members at no cost.

### **Co-location Data Centre**

Key technical highlights are:

- 10 Gbps Fibre optic cable connection with BSE trading system with full redundancy
- 24 X 7 operations support
- 24 X 7 High security zone
- Uninterrupted Power Supply with DG back up
- ITIL and ISO 27001 compliant
- FM200 Fire suppression facility
- Market Data feed from Thomson Reuters Electron network
- 99.999% uptime



Bloomberg Ticker	Category	Туре
SENSEX Index CT	S&P BSE SENSEX Index futures	Futures contract
BSE100 Index CT	S&P BSE 100 index futures	Futures contract
SENSEX Index OMON	S&P BSE SENSEX Index options	Options contract
BSE100 Index OMON	S&P BSE 100 Index Options	Options contract
LUSA Currency OMON	S&P BSE Currency Options	Options Contract
LUSA Curncy	Currency USDINR Futures	Futures Contract
LERA Curncy	Currency EURINR Futures	Futures Contract
LGBA Curncy	Currency GBPINR Futures	Futures Contract
LJPA Curncy	Currency JPYINR Futures	Futures Contract
TBBA Comdty	T-Bill	Futures Contract
IISA Comdty	Gov Bond 8.4%	Futures Contract
IIPA Comdty	Gov Bond 7.72%	Futures Contract

Thompson Reuters Symbols	Category	Туре
O#BIF	S&P BSE SENSEX Equity Index	Futures contract
O#BHI	S&P BSE 100 Index futures	Futures contract
0#BIF*.BO	S&P BSE SENSEX Equity Index	Options contract
0#BHI*.BO	S&P BSE 100 Index Options	Options contract
O#BIR	Currency USD/INR	Futures contract
O#BEU	Currency EUR/INR	Futures contract
0#BGB	Currency GBP/INR	Futures contract
O#BJP	Currency JPY/INR	Futures contract
0#BSE91	Treasury Bill	Futures contract
0#B883	10 Yr G-Sec	Futures contract
0#B716	10 Yr G-Sec	Futures contract

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