



JULY 2017 UPDATE



LIQUIDITY • LOWER COSTS • TIGHT SPREADS • LARGE PARTICIPANT BASE

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About BSE



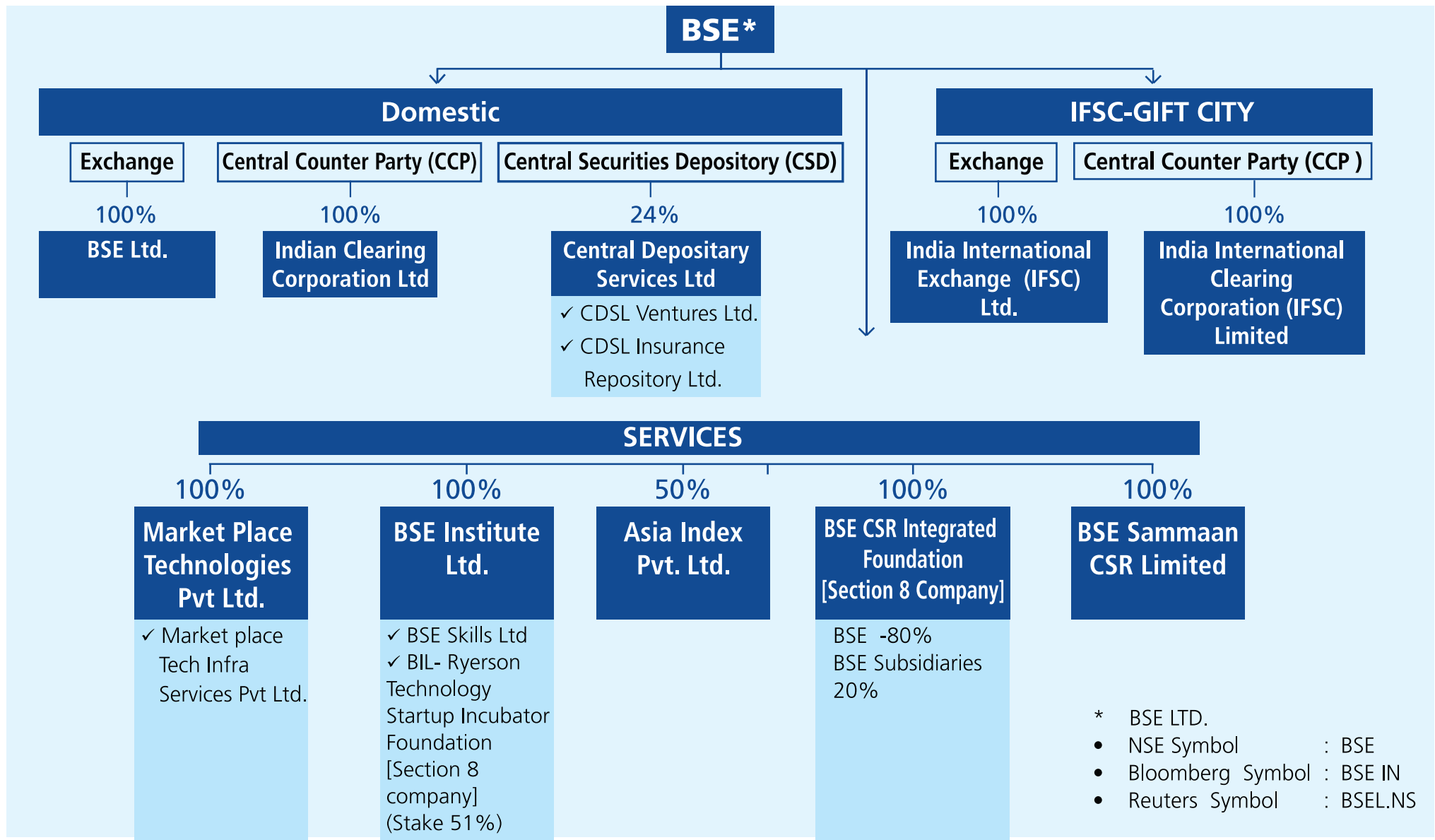
Evolution Of The Exchange



Key Milestones

DATE	MILESTONES
27 th Jun, 2017	BSE Ltd and Legasis Services Pvt. Ltd. enter into a strategic engagement for jointly promoting Compliance, Ethics and Governance for companies and other relevant stakeholders
19 th Jun ,2017	Pune Municipal Corporation successfully raised Rs.200 crore on BSE BOND Platform
3 rd Feb ,2017	BSE becomes India's 1st listed Stock Exchange
16 th Jan ,2017	Commencement of Trading at India INX
9 th Jan ,2017	Hon'ble Prime Minister of India, Shri Narendra Modi inaugurated India International Exchange (IFSC) Ltd, India's 1st International Exchange
7 th Dec,2016	Asia Index Private Limited launches S&P BSE SENSEX 50 Index to measure the performance of the 50 largest listed companies at the BSE
9 th July,2016	Shri Arun Jaitley, Hon'ble Minister of Finance Unveiled the Commemorative Postage Stamp Celebrating 140 glorious years of BSE
2 nd Jan ,1986	S&P BSE SENSEX , country's first equity index launched (Base Year:1978-79 =100
31 st Aug ,1957	BSE granted permanent recognition under Securities Contracts (Regulation) Act (SCRA)
9 th July,1875	The Native Share & Stock Broker's Association formed

BSE Group




- * BSE LTD.
- NSE Symbol : BSE
- Bloomberg Symbol : BSE IN
- Reuters Symbol : BSEL.NS

BSE Shareholding Pattern

BSE & Its Partners

As on 30th June 2017

Category	%
Trading Members and Associates of trading members	37.03%
Promoter & Promoter Group	0
Public	62.97%
Non Promoter- Non Public	0
Shares underlying DRs	0
Shares held by Employee Trusts	0
TOTAL	100%



- Board Presence
- Eurex T7 trading architecture
- 4.75% investment in BSE to expand Asia presence and increase footprint in multiple time zones



- Sensex Licensing to Korea Exchange





- Listing of Sensex



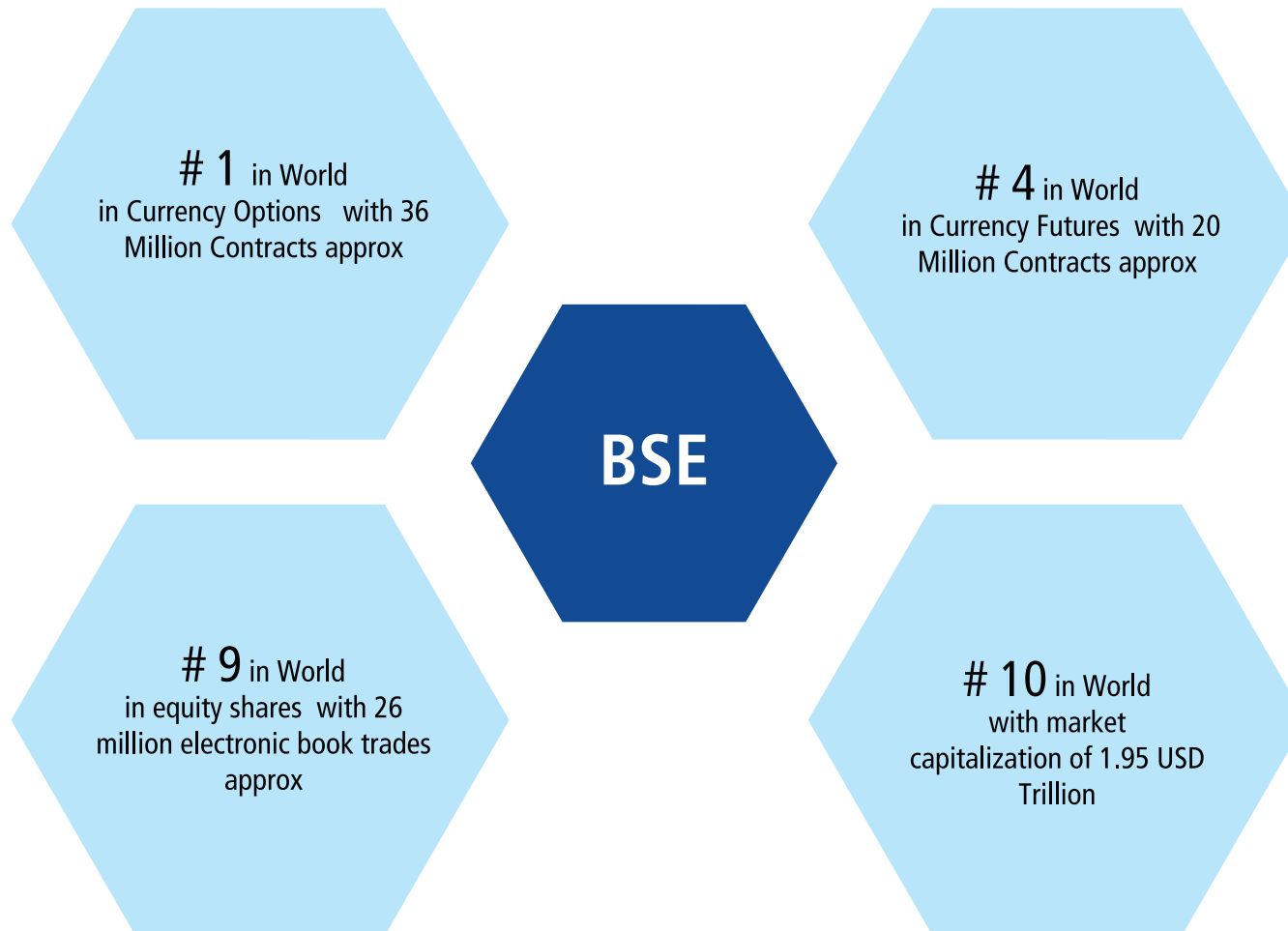
- Calculation & maintenance of all BSE Indices
- Index Product sales abroad
- Partnership on Index products

- 4.75% investment in BSE by State Bank of India as key user and supporter of platform
- 4.98% Investment in BSE by Smallcap World Fund, Inc.



- 4.68% investment in BSE as key user and supporter of platform
- Board Presence

Global Ranking



Source: World Federation of Exchanges




Data as of June 2017

Key Highlights




Growth Strategy





Board of Directors

	NAME / TITLE	DESCRIPTION
	<p>Shri Dharendra Swarup Secretary (Retd.), Finance Ministry Chairman, Public Interest Director</p>	<ul style="list-style-type: none"> Shri Dharendra Swarup has over four decades of experience across Finance, Budgeting, Public Debt Management, Public Policy and Pension Reforms. A former Chairman of Pension Funds Regulatory and Development Authority, he has been a career civil servant retiring as Secretary to the Government of India, Ministry of Finance. He is an IMF expert on fiscal affairs and has worked in UK, Turkey and Georgia. He is a Director on the Board of Eros International Media Limited, PTC India Limited, Berger Paints India Limited and PTC Energy Limited.
	<p>Shri Ashishkumar Chauhan Managing Director & CEO</p>	<p>Shri Ashishkumar Chauhan is the MD & CEO of BSE (Bombay Stock Exchange), the first stock exchange of Asia. He is one of the founders of India's National Stock Exchange ("NSE") where he worked from 1992 to 2000. He is best known as the father of modern financial derivatives in India due to his work at NSE. He was instrumental in setting up India's first fully automated screen based trading system and first commercial satellite communications network. He also created several path breaking frameworks including Nifty index, NSE certifications in financial markets etc. From 2000 to 2009, he worked as the President and Chief Information Officer of Reliance group and was also the CEO of the cricket team Mumbai Indians in its formative years.</p> <p>He currently serves as the Chairperson on the Board of Governors (BoGs) of the National Institute of Technology (NIT) Manipur. He is an Advisor to the Technical Evaluation Committee set up by the Department of Posts for Postal Bank and also a part of several other committees of World Federation of Exchanges ("WFE"), Government of India ("GOI"), Reserve Bank of India ("RBI"), Securities and Exchange Board of India ("SEBI"), Confederation of Indian Industry ("CII"), Federation of Indian Chambers of Commerce and Industry ("FICCI"), Indian Merchants Chamber ("IMC"), India UK council ("UKIBC") etc. He is also associated with several NGOs and education institutions. His quotes and writings have been published in various newspapers, magazines and journals in India and abroad.</p> <p>He holds a B Tech in Mechanical Engineering from IIT Bombay and a PGDM from IIM Kolkata. He is a Distinguished Visiting professor at Ryerson University, Toronto, Canada. In recognition of his contribution to industry he has received many awards at National and International levels.</p>
	<p>Dr. Krishnaswamy Kasturirangan Former Chairman, ISRO Public Interest Director</p>	<ul style="list-style-type: none"> Dr. Krishnaswamy Kasturirangan is currently the Chancellor of Jawaharlal Nehru University, an Honorary Distinguished Advisor, Indian Space Research Organisation (ISRO), an Emeritus Professor at the National Institute of Advanced Studies and holds the Satish Dhawan Chair for Engineering Eminence instituted by Indian National Academy of Engineering. Earlier, as Chairman of ISRO, he oversaw the space programme in India between the years 1994 and 2003. He was also a Member, Upper House of the Indian Parliament, and subsequently, Member of the erstwhile Planning Commission. His interests include astrophysics, space science and technology as well as science related policies.

Board of Directors

	NAME / TITLE	DESCRIPTION
	<p>Justice Vikramajit Sen Former Supreme Court Judge and Chief Justice, High Court of Karnataka Public Interest Director</p>	<ul style="list-style-type: none"> Justice Vikramajit Sen retired from the Supreme Court of India on 31st December 2015. Prior thereto practised mainly commercial law in the Courts in Delhi. Presently on the Board of several Corporations. In addition, conducting Arbitrations and giving legal opinion on complicated questions of law. Studied in St. Xavier's School in Delhi, followed by a BA (Honours) degree after attending St. Stephen's College, Delhi University. Received Law Degree from the Faculty of Law, Delhi University in 1974. He is a Director on the Board of DCM Shriram Limited
	<p>Shri Sumit Bose IAS (Retd.) Former Union Finance Secretary Public Interest Director</p>	<ul style="list-style-type: none"> Shri Sumit Bose is Director on the Board of Coromandal International Limited, Tata AIG General Insurance Company Ltd., UTI Asset Management Company Ltd. HDFC Standard Life Insurance Co. Limited. and Oil and Natural Gas Corporation Ltd. Vice Chairman, National Institute of Public Finance and Policy, New Delhi, Chairman, Board of Directors of Vidhi Centre for Legal Policy, New Delhi, an independent legal think tank, a Member, Board of Governors of The Doon School, Dehradun, a Member, Governing Body, Parivaar Education Society, Kolkata, Director, Jal Seva Charitable Foundation
	<p>Shri Sethurathnam Ravi FCA, Practising Chartered Accountant Public Interest Director</p>	<p>Shri S. Ravi the Managing Partner of Ravi Rajan & Co., Chartered Accountants. He is an Independent Director on the boards of SMERA Ratings Limited, IDBI Bank Limited, Tourism Finance Corporation of India, BOI Merchant Bankers Limited and Aditya Birla Health Insurance Company Limited, to name a few.</p> <ul style="list-style-type: none"> He is a member of the Takeover Panel and Mutual Funds Advisory Committee of SEBI.



Board of Directors

	NAME / TITLE	DESCRIPTION
	<p>Dr. Sriprakash Kothari Gordon Y Billard Professor of Accounting and Finance Massachusetts Institute of Technology, Sloan School of Management Shareholder Director</p>	<ul style="list-style-type: none"> ■ Dr. Sriprakash Kothari Gordon Y Billard Professor of Accounting and Finance at the Sloan School of Management, Massachusetts Institute of Technology. With close to two decades at this premier institute, Mr. Kothari recently completed a six-year stint as Deputy Dean at the Sloan School of Management. He is also faculty director of the MIT-India Program http://web.mit.edu/misti/mit-india/ and an editor of the world-renowned academic publication Journal of Accounting & Economics. Recently, in the year 2014 Mr. Kothari was a recipient of the American Accounting Association's (AAA) Notable Contributions to the Accounting Literature award. His other awards include honorary doctorates, Doctor Honoris Causa, from the University of Technology, Sydney in May 2013 and University of Cyprus in 2016 and a Distinguished Alumnus Award from Birla Institute of Technology and Science, Pilani, in 2013. ■ Dr. Sriprakash Kothari holds a bachelor of engineering degree from the Birla Institute of Technology and Science, Pilani, and has also earned his MBA (PGDM) from one of India's finest institutes, the Indian Institute of Management, Ahmedabad. Mr. Kothari completed his PhD from University of Iowa, United States. His highly-cited research focuses on the US and international financial reporting practices, the pricing of financial information, investment analysis and valuation.
	<p>Smt Usha Sangwan MD, Life Insurance Corporation of India Shareholder Director</p>	<ul style="list-style-type: none"> ■ Smt Usha Sangwan, is the first ever woman Managing Director of Life Insurance Corporation of India since its inception. ■ She is the whole time Director of LIC of India, Board Member of General Insurance Corporation of India, , LIC Housing Finance Ltd., Axis Bank and Ambuja Cements Ltd. Director on the board of LIC Cards Services Ltd., Associate Director LIC Mutual Fund Trustee Private Ltd. Member of Governing Council of National Insurance Academy, a Trustee of LIC Golden Jubilee Foundation, Chairman of Trust - LIC of India (Regular Part-time employees) Pension Fund and a Member of Policyholder Protection Committee, Executive Committee, Risk Management Committee and Investment Committee of LIC of India.

Board of Directors

	NAME / TITLE	DESCRIPTION
	<p>Shri Roland Schwinn Head of Eurex Asia Deutsche Boerse Group</p>	<ul style="list-style-type: none"> ■ Shri Roland Schwinn is the Head of Eurex Asia, the derivatives market of the Deutsche Boerse Group for Asia, Pacific and the Middle East. He joined Eurex in 2007 as Head of Business Research until he took over the business development role for the Asia Pacific region in July 2007. ■ He is also the founding director of Deutsche Boerse Asia Holding and Eurex Clearing Asia and since July 2015 he acts as the Chief Executive Officer of Eurex Clearing Asia in Singapore. From 1994 to 2006 he worked as an Independent Business Consultant for Eurex and the Deutsche Boerse Group in several international projects and in the areas of Marketing & Sales and Institutional Investor Business Development, specializing in Hedge Funds. ■ He started his career at the DTB - Deutsche Terminboerse - (the predecessor of Eurex) in 1990 as a Product Development Manager and worked in several positions at DTB, including Strategic Marketing Manager and Client Services Manager until 1994. ■ Roland Schwinn studied at the University of Applied Sciences, Trier Germany and the University of Leicester, UK. He is holding a master degree in Business Administration and a Postgraduate Diploma in European Business Studies. Since November 2016, Roland is also a Fellow of Singapore Institute of Management University (UniSIM). Prior to that he was a Research Fellow of Singapore Management University (SMU).
	<p>Smt Rajeshree Sabnavis Fellow Member of ICAI, Company Secretary Shareholder Director</p>	<p>Smt Rajeshree Sabnavis is part of the Direct Taxation Committee with the Bombay Chamber of Commerce where she is a Co-Chairperson. She is also a member of the EU Chamber of Commerce and a director on the boards of BOB Capital Markets Ltd.</p>

Management Team

	NAME / TITLE	DESCRIPTION
	Shri Ashishkumar Chauhan Managing Director & Chief Executive Officer	<ul style="list-style-type: none"> ■ Shri Ashishkumar Chauhan is the MD & CEO of BSE (Bombay Stock Exchange), the first stock exchange of Asia. He is one of the founders of India's National Stock Exchange ("NSE") where he worked from 1992 to 2000. He is best known as the father of modern financial derivatives in India due to his work at NSE. He was instrumental in setting up India's first fully automated screen based trading system and first commercial satellite communications network. He also created several path breaking frameworks including Nifty index, NSE certifications in financial markets etc. From 2000 to 2009, he worked as the President and Chief Information Officer of Reliance group and was also the CEO of the cricket team Mumbai Indians in its formative years. ■ He currently serves as the Chairperson on the Board of Governors (BoGs) of the National Institute of Technology (NIT) Manipur. He is an Advisor to the Technical Evaluation Committee set up by the Department of Posts for Postal Bank and also a part of several other committees of World Federation of Exchanges ("WFE"), Government of India ("GOI"), Reserve Bank of India ("RBI"), Securities and Exchange Board of India ("SEBI"), Confederation of Indian Industry ("CII"), Federation of Indian Chambers of Commerce and Industry ("FICCI"), Indian Merchants Chamber ("IMC"), India UK council ("UKIBC") etc. He is also associated with several NGOs and education institutions. His quotes and writings have been published in various newspapers, magazines and journals in India and abroad. ■ He holds a B Tech in Mechanical Engineering from IIT Bombay and a PGDM from IIM Kolkata. He is a Distinguished Visiting professor at Ryerson University, Toronto, Canada. In recognition of his contribution to industry he has received many awards at National and International levels.
	Shri V Balasubramaniam Managing Director & Chief Executive Officer (INX)	<ul style="list-style-type: none"> ■ Shri V Bala is the founding Managing Director and Chief Executive Officer of India International Exchange IFSC Ltd. (India INX) the first International Exchange from India in GIFT City International Financial Services Centre Special Economic Zone which started its operations from JAN, 2017 and a wholly owned subsidiary of BSE (Asia's first stock exchange). He also holds board position in the following organisations – 1) Central Depository Services (India) Limited – Depository 2) BSE Institute Limited – Education business, 3) BSE Sammaan – CSR Exchange and 4) India International Clearing Corporation IFSC Limited. ■ Prior to this, he was the Chief Business Officer of BSE heading the business development encompassing all business segments viz. Equities, Equity Derivatives, Debt, Interest Rate Futures, Currency Derivatives, Mutual Fund Distribution platform and SME platform. In addition to the markets business, he was also responsible for the listings and data business of BSE and managing the entire trading operations and membership operations. ■ He has over 25 years of experience in the Capital Markets industry and has previously worked with Reliance Group as Vice President and was also as co-founder of Marketplace Technologies Limited which was acquired by BSE. ■ He was also part of the core team involved in setting up the National Stock Exchange of India. He was instrumental in creating the Capital Market segment, Nifty Index creation, setup of NSCCL as the first clearing corporation in India, NCFM certification creation and the Futures and Options segment inter-alia. ■ He has Masters in Commerce from the University of Mumbai, Rank holder from the Institute of Cost Accountants of India, Diploma from Institute of Chartered Financial Analysts of India and is a Certified Information Systems Auditor.
	Shri Nehal Vora Chief Regulatory Officer	<ul style="list-style-type: none"> ■ Shri Nehal Vora heads the regulatory functions of the exchange including membership compliance, surveillance, inspection, investigation, regulatory communication, investor services, listing compliance, regulatory legal and corporate secretarial. He is a Board member of Indian Clearing Corporation Limited (ICCL) and of Central Depository Services Limited (CDSL). His other Board Memberships include that of National Power Exchange Limited, BSE Investments Limited, BSE Sammaan – CSR Exchange ■ He has more than 19 years of experience in the area of legal and compliance. He has previously worked at the Securities and Exchange Board of India (SEBI) for 10 years and as Director, Law & Compliance at DSP Merrill Lynch Ltd heading Broking and Investment Banking Compliance ■ Nehal has completed his Bachelors of Commerce from Mumbai University and Master of Management Studies from Narsee Monjee Institute of Management Studies, University of Mumbai

Management Team (Contd...)

	NAME / TITLE	DESCRIPTION
	Shri Nayan Mehta Chief Financial Officer	<ul style="list-style-type: none"> ▪ Shri Nayan Mehta currently heads all finance, accounting, treasury and taxation functions of the Exchange. He represents BSE as the Senior Vice Chairman on the Executive Board of the South Asian Federation of Exchanges. He represents BSE on the Boards of group companies and joint ventures of BSE and as a member of the Qualified Audit Review Committee of SEBI. ▪ He has previously worked at Credit Analysis & Research Ltd. as Joint General Manager (Accounts), CFO at Multi Commodity Exchange of India Limited and has also worked at the National Stock Exchange. ▪ He holds a Bachelors in Commerce degree from University of Mumbai. He is a qualified Chartered Accountant as well as a qualified Cost and Management Accountant.
	Shri Kersi Tavadia Chief Information Officer	<ul style="list-style-type: none"> ▪ Shri Kersi Tavadia has over 30 years of experience in the area of Application Systems/ IT Infrastructure development and management, managing all aspects of IT operations in Financial Services, Capital markets and manufacturing companies. He has played a leading role in transforming BSE into the fastest exchange in the country ▪ He is instrumental in promoting, adaption of Open Source technologies and has successfully deployed one of the largest Data Warehouse on Open source platform. ▪ He has provided technical leadership & architectural vision in implementation of Mission Critical Applications across the organization including IT Infrastructure, Web portals, web based and non-web based customized solutions. ▪ He is amongst the Pioneers to implement single-window Multi-Exchange online trading systems to facilitate trading across multiple asset classes.
	Shri Neeraj Kulshrestha Chief of Business Operations	<ul style="list-style-type: none"> ▪ Shri Neeraj Kulshrestha is responsible for Business Development for Equities, Equity Derivatives, Debt, Interest Rate Futures, Currency Derivatives, Mutual Fund Distribution platform and SME platform. He is also responsible for Trading Operations and Development, Listing Sales and Operations and Membership Operations ▪ He has about 27 year experience in Capital markets, which includes Securities Markets and General Insurance. ▪ Prior to BSE he was an Executive Director in Morgan Stanley India for 10 years. He was earlier with National Stock Exchange and has managed various functions like Trading Operations, Inspection and Investigation, Futures and Options Clearing and Trading. He was also the CEO of India Index Services Ltd. and Dotex International Ltd.. ▪ He has completed his Bachelors in Computer Science from Delhi University and a MBA (Finance) from Indore University

Lines of Business

Listing Business		Market Business				Data Business
Primary Market	Secondary Market	BSE Star Mutual Funds platform	New Debt Segment	Membership	Post Trade	Information Products
<ul style="list-style-type: none"> ▪ IPO ➢ EQUITY ➢ SME ➢ BOND ▪ FPO ▪ BSE Hi-Tech ▪ Sovereign Gold Bonds ▪ Mutual Fund-NFO 	<ul style="list-style-type: none"> ▪ Equity Cash ➢ Small & Medium Enterprises ➢ Offer to Buy ➢ Offer for Sale ➢ Close Ended Mutual Funds ➢ Corporate Bonds ➢ Government Securities and Sovereign Gold Bonds ▪ Equity Derivatives ▪ Currency Derivatives ▪ Interest Rate Futures ▪ Securities lending & borrowing (through ICCL) ▪ ETF 	<ul style="list-style-type: none"> ▪ Order placement platform 	<ul style="list-style-type: none"> ▪ OTC Corporate Bond Reporting CP/CD ▪ Trade Repository 	<ul style="list-style-type: none"> ▪ Trading Members ▪ Clearing Members ▪ Self-clearing Members 	<ul style="list-style-type: none"> ▪ Clearing and Settlement Services through ICCL ▪ Depository Services through CDSL 	<ul style="list-style-type: none"> ▪ Market Data ▪ Corporate Data ▪ Corporate Action through SWIFT ▪ End of Day Products ▪ Historical Data ▪ Macro economic Indices

Supporting Business

Technology	Index Products	Training	Corporate Social Responsibility
<ul style="list-style-type: none"> ▪ IT services & solutions 	<ul style="list-style-type: none"> ▪ S&P BSE SENSEX ▪ Sectoral Indices ▪ Sustainability Indices ▪ Thematic Indices ▪ Fixed Income Indices 	<ul style="list-style-type: none"> ▪ Training ▪ Certification ▪ Skill Development ▪ Technology Incubator & Accelerator Program 	<ul style="list-style-type: none"> ▪ BSE CSR Samman



Listing Business

BSE
EXPERIENCE THE NEW

Total Fund Mobilization through Public Offer (Equity and Debt)

- Total Rs. 1,21,563 cr (\$18.86 billion) have been raised in Indian Markets through Stock Exchanges in India since April 2016
- Rs. 86,611 cr (\$13.44 billion) have been raised at BSE since April 2016
- BSE is the market leader with 71% of total funds raised
- BSE has the largest number of listed companies in world

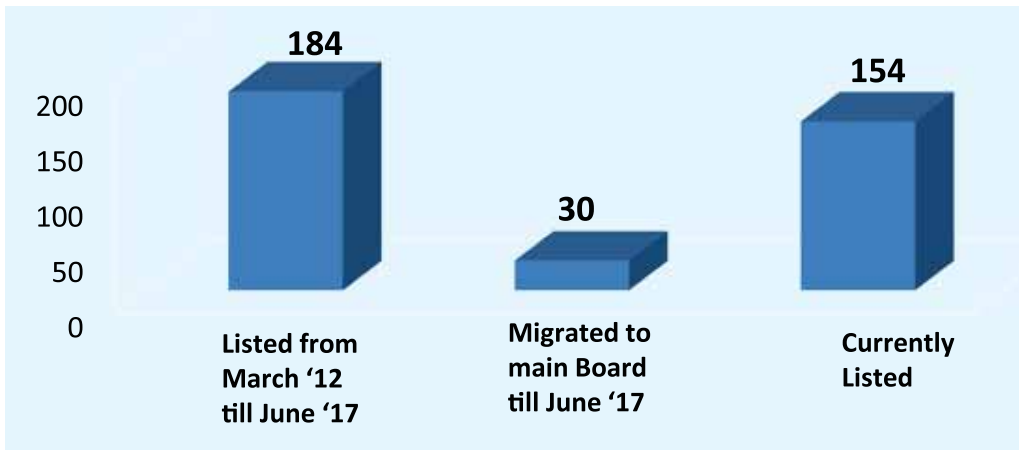
5275
Companies listed
with Equities

Leadership in Debt Market

- BSE is the preferred choice for listing Privately Placed Debt Instruments (PPDI). In FY16-17, BSE has listed 2353 Instruments with an amount totalling to Rs.420,660 crore vis-a-vis 1200 on other Exchange.
- In F.Y. 2017-18 (till June), Exchange has listed 633 instruments with a market cap of Rs. 1,18,928 crores vis a vis 396 instruments on the other Exchange.
- In F.Y 2016-17, 15 Debt Public issues have tapped the market . BSE is the Designated Stock Exchange for the 13 public issues with 7 issues listed only on BSE.
- In F.Y 2017-18 (till June), 2 Debt Public issues have tapped the market . BSE is the Designated Stock Exchange for both the public issues and both were listed only on BSE.

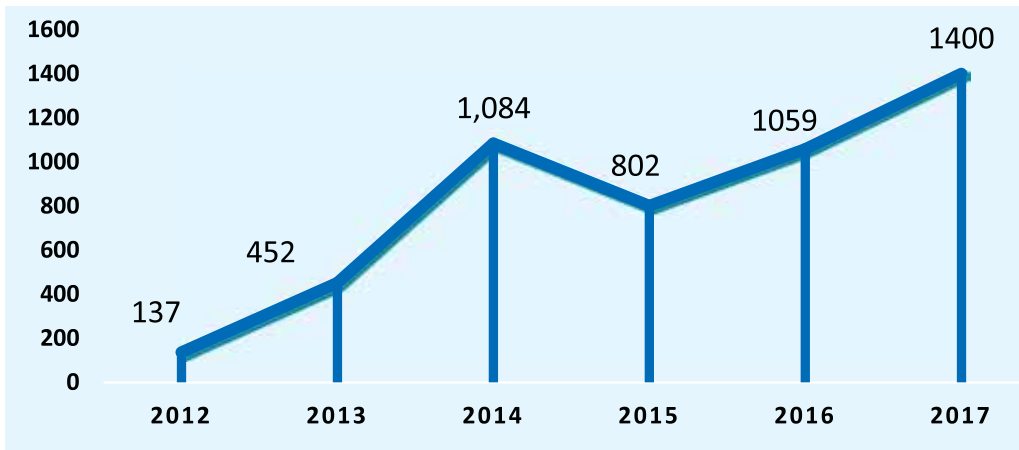
BSE SME – India’s Biggest SME platform

Companies on BSE-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 was launched on 14th December, 2012 aimed at tracking the companies listed on SME platform with a Base value of 100. As on 30th June, 2017 its value was 1,400.
- The Platform facilitates capital raising by small and medium enterprises including start-up companies which are in their early stages of growth. It also provides easier entry and exit options for informed investors like angel investors, VCFs and PEs etc. and equity financing which lowers the debt burden leading to lower financing cost and healthier balance sheet.
- Total Market Capitalization of 154 companies –Rs.10,990 Crs
- Total Market Capitalization of 30 companies Migrated to main Board – Rs.7,417 Crs.

SME IPO INDEX



76% of Market Share in terms of number of SMEs listed

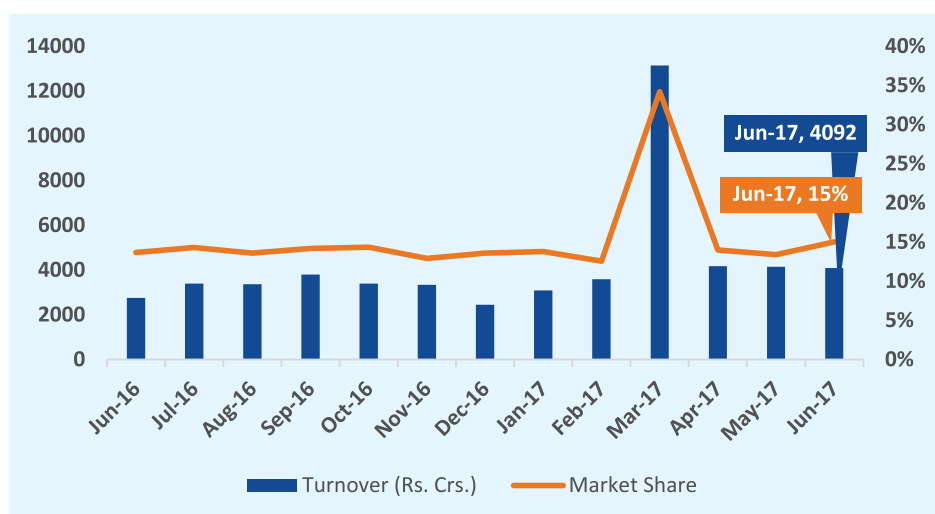


**Market
Business**

BSE
EXPERIENCE THE NEW

Equity Cash Market

Avg Daily Turnover (Rs. Crs.) & Market Share%



Existing Transaction Charges in Equity Segment

Slab-wise Rates	
Monthly Trades Count	Rate (in Rs.) per Trade
0 – 5,00,000	1
5,00,001 – 10,00,000	0.7
10,00,001 – 20,00,000	0.6
20,00,001 – 30,00,000	0.5
30,00,001 – 40,00,000	0.4
> 40,00,001	0.3

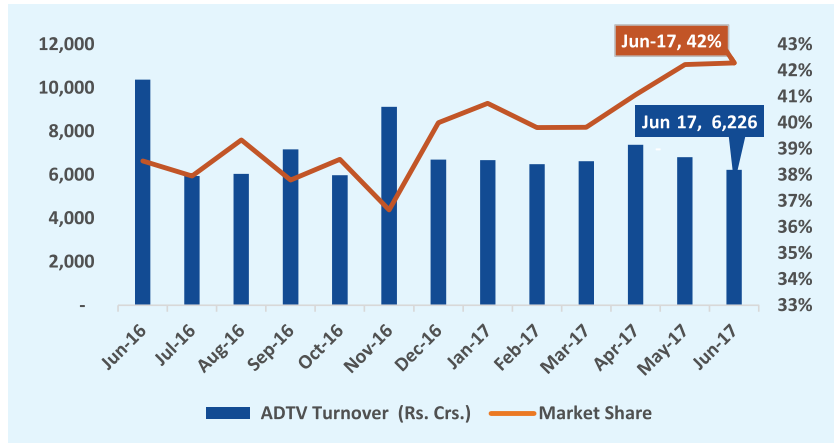
Revision in transaction charges of equity segment w.e.f August 1, 2017

Slab-wise Rates	
Monthly Trades Count	Rate (in Rs.) per Trade
0 – 1,00,000	1.5
1,00,001 – 3,00,000	1.25
3,00,001 – 5,00,000	1
5,00,001 – 20,00,000	0.75
> 20,00,000	0.5

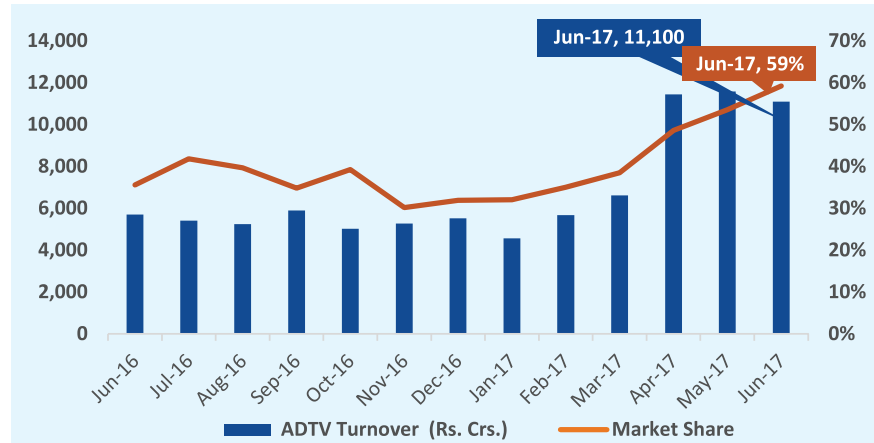
**An active order resulting in multiple execution shall be charged only once.

Currency Derivatives

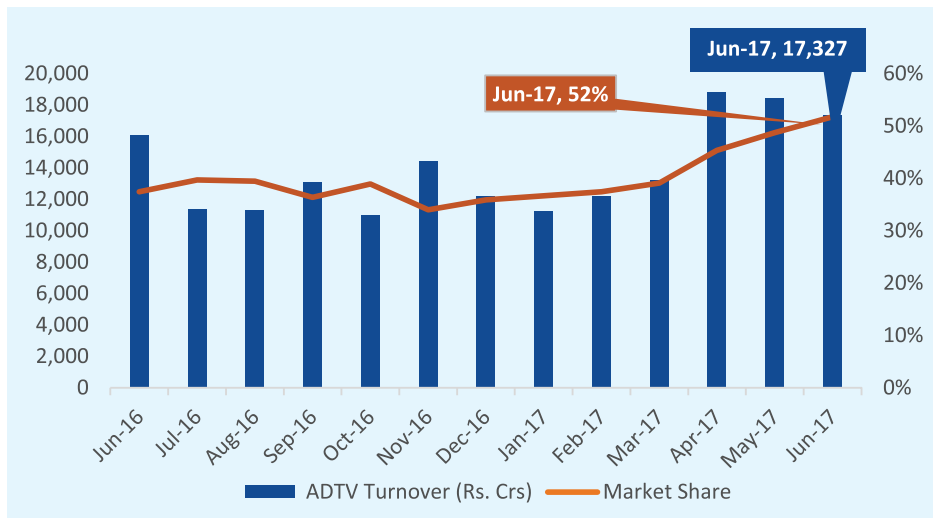
Currency Futures



Currency Options



Combined Turnover & Market Share



Competitive Advantage

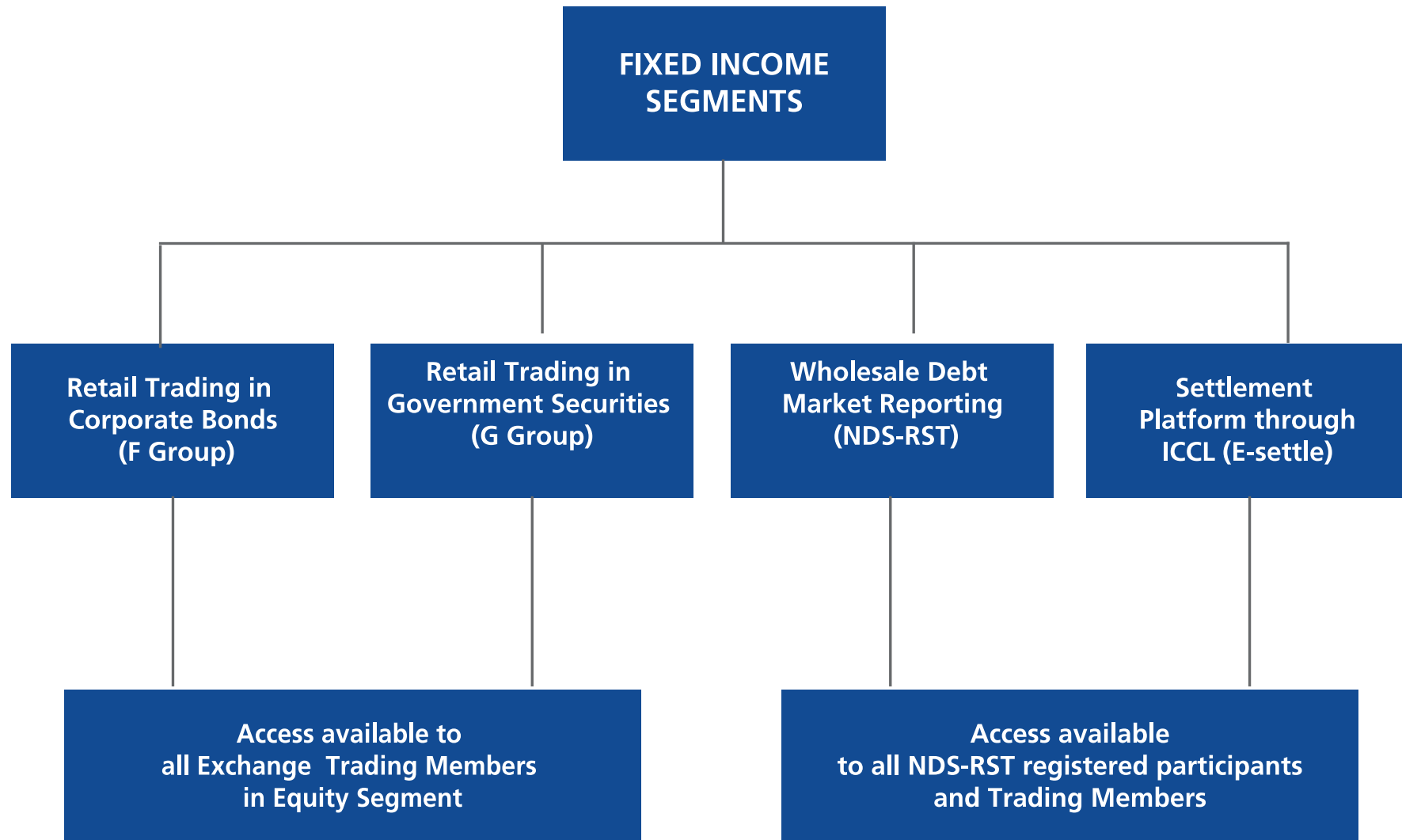
Currency		BSE	NSE	MSEI
Exchange Transaction Charges (Rs. / Per Cr.)	Futures	22	110	90
Cost Saving @ BSE up to		80%		
Exchange Transaction Charges (Rs. / Per Cr.)	Options	2000	4000	2500
Cost Saving @ BSE up to		50%		

Sovereign Gold Bond

Month	Value in Rs. In Crs	Quantity in Kgs	No. of Applications
November – 2015	246	916	62,190
January - 2016	726	2790	3,30,000
March – 2016	329	1128	64,000
July - 2016	919	2950	1,95,000
September – 2016	820	2370	2,00,000
October – 2016	1082	3598	2,55,000

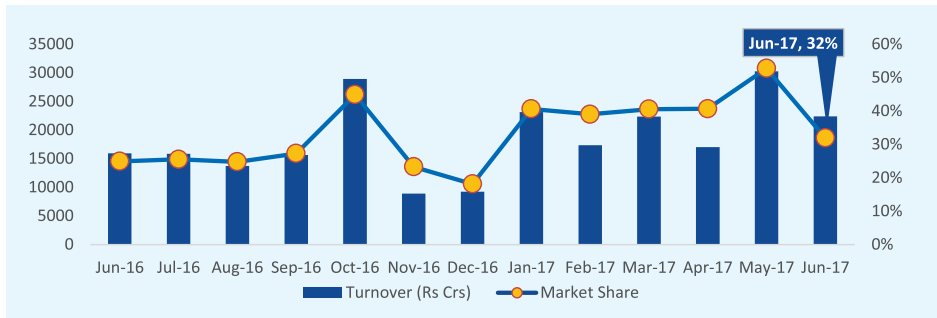
**BSE is one of
the largest
distributors of
Sovereign
Gold bonds**

Fixed Income Segments Overview

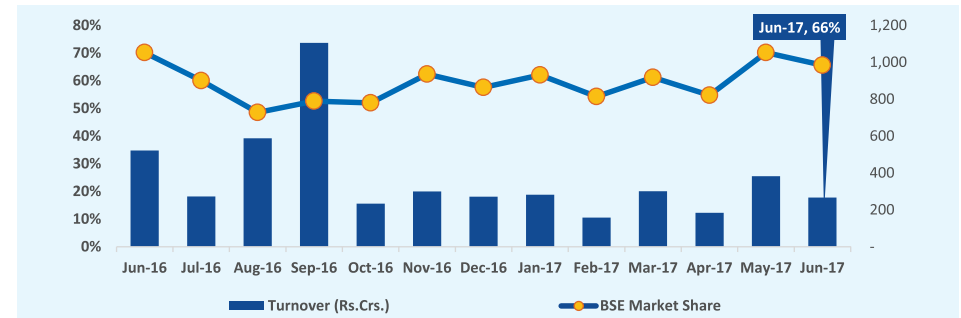


Fixed Income Segments

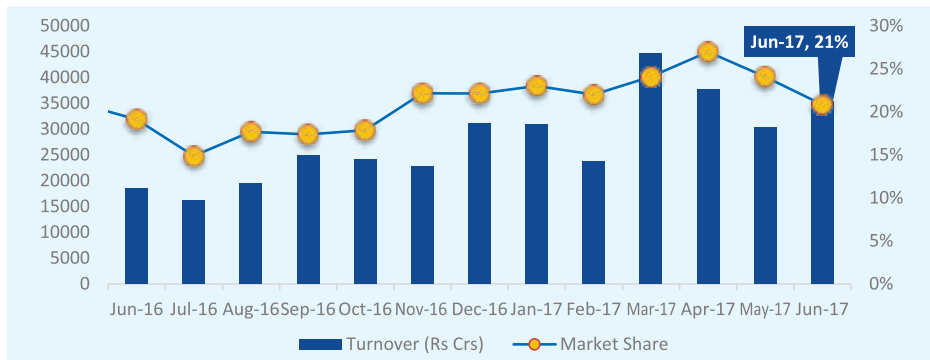
G-Sec Reporting



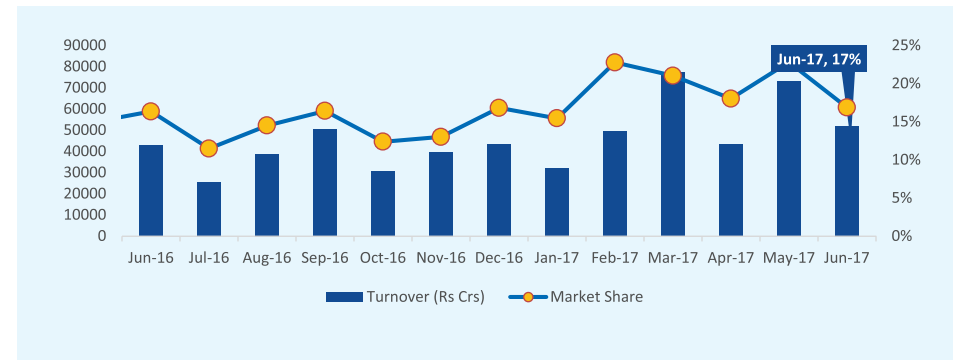
Retail Trading in Corporate Bonds



Corporate Bond Reporting

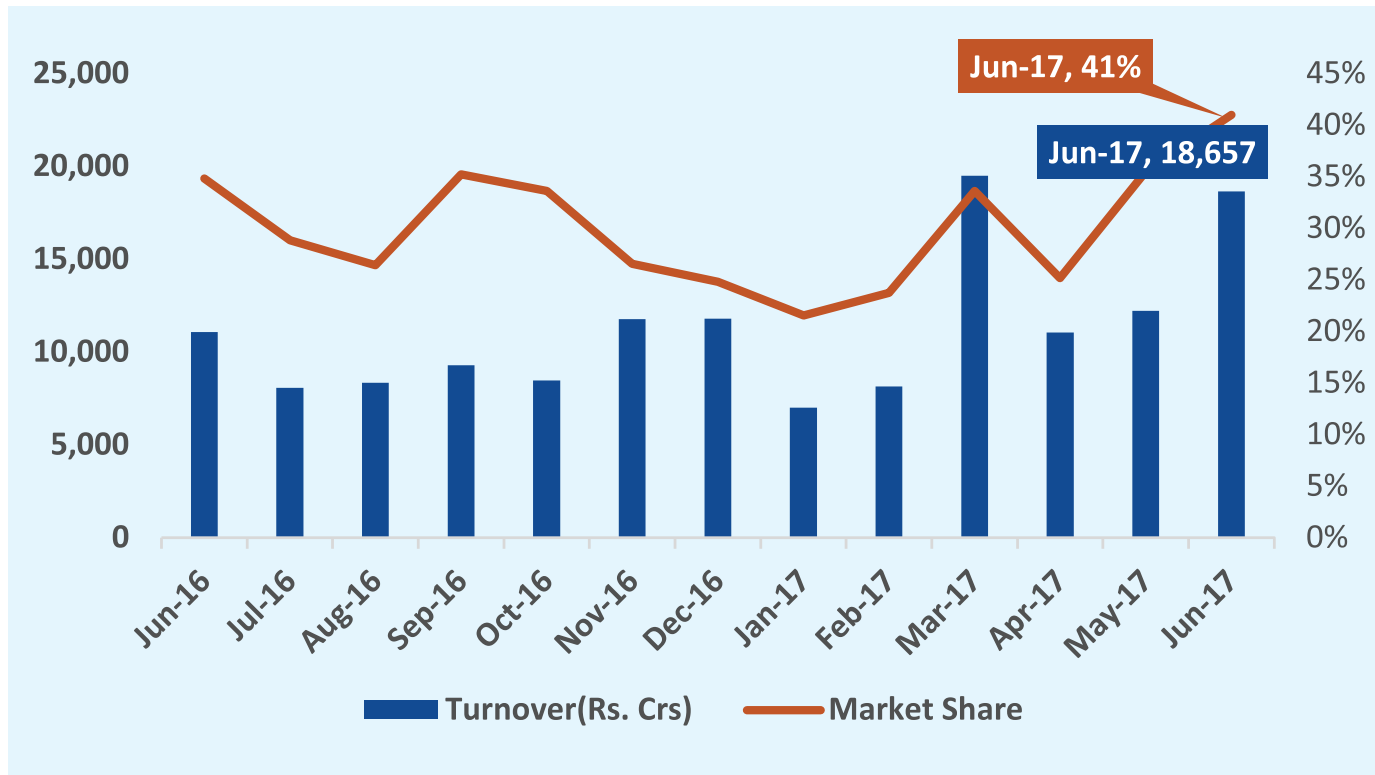


ICCL Settlement



- BSE has maintained the dominant market share in Retail trading of Corporate Bonds. BSE Market share was 62% in FY15-16 , FY 16-17 was 59% and 66% for the month of June '17 .
- Market Share for reporting volumes in G-secs in June 2017 was 32% and Market Share in Corporate Bonds was 21% in the month of June 2017.
- The average Market share of BSE for total settlement of Corporate Bonds and CP-CD was 17% in the month of June 2017

Interest Rate Derivatives

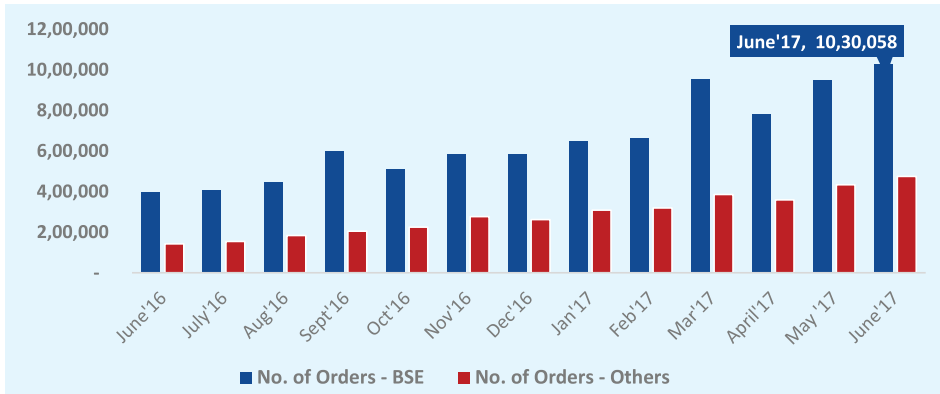


Transaction Charges Rs.10 per Crore

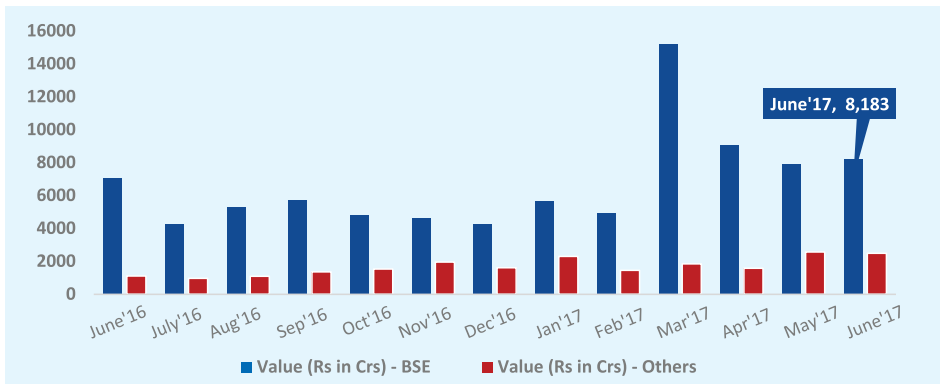
**41%
Market
Share% for
the Month
of June '17**

StAR MF-India's largest online MF Distribution platform

No. Of Orders



Value (Rs. Crs.)



**Market Share of
BSE- Star MF is 85%**



For Registration Process, refer: <http://ir.bseindia.com/mfdforms/members/LoginMF.aspx?expandable=0>

PLATFORM FEATURES

- Completely digital- Demat and Non Demat /Mutual Fund transactions, while facilitating the benefits of Physical mode
- 24x7 order acceptance
- SGB enabled for MFDs
- 6 day order holding facility
- Paperless SIP
- Any day STP and SWP
- Paperless bank Mandate

CONNECTIVITY & USPs

- Unique overnight investments framework
- Multi-mode of platform access
- Completely digital and REAL Time Investors registration / onboarding
- Widely accepted by NDs / Custodians / Brokers / IFA Platform / New age Digital Distributors / IFAs/ RIAs
- E-submission and online MFD Registration

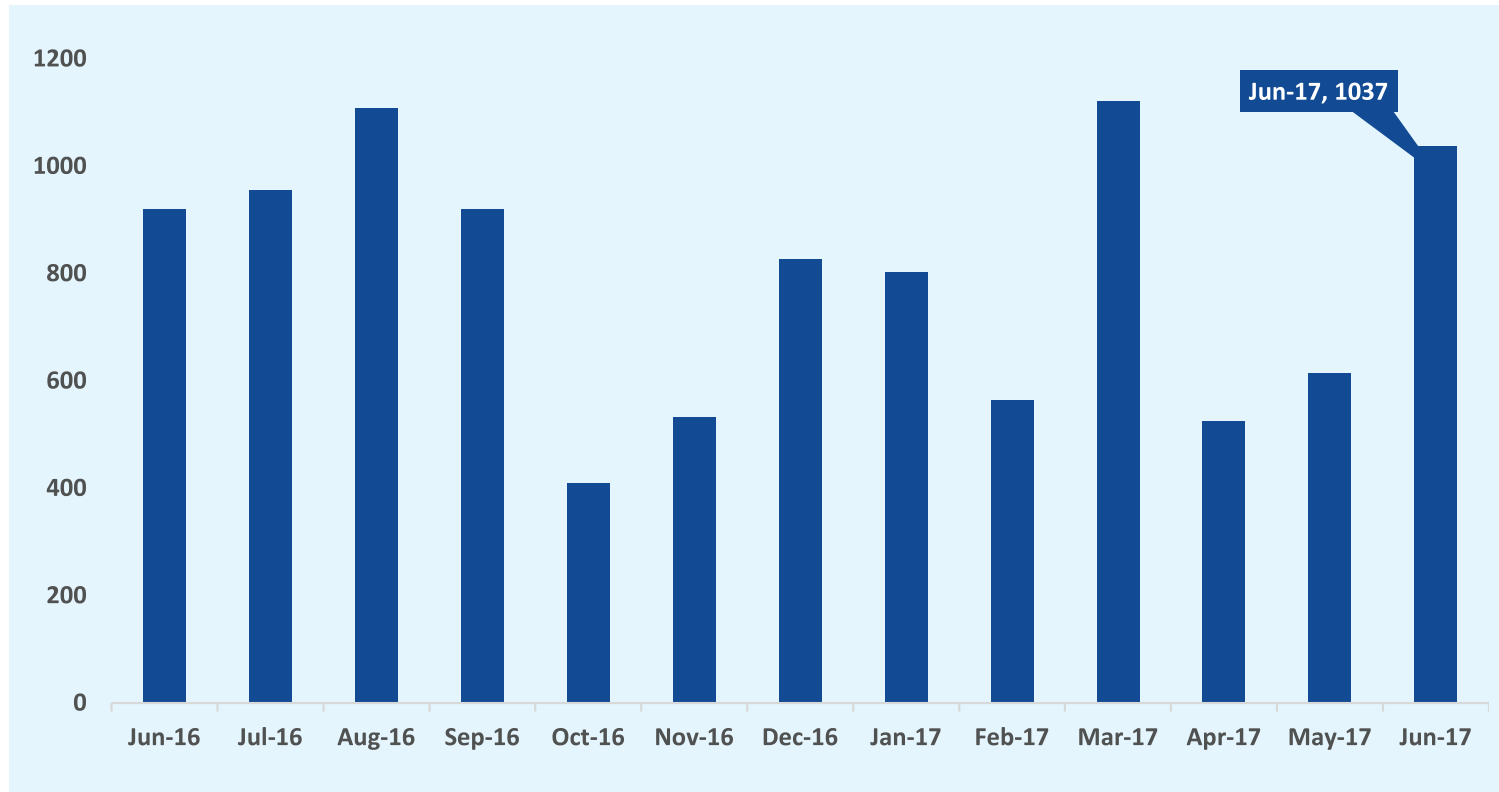
PLATFORM STATISTICS

- Over 30 Lakh orders transitioned aggregating to Rs. 25645 Crs on BSE StAR MF Platform for Q1 FY 17-18.
 - Over 66 Lakh orders transitioned aggregating to Rs 75,000 Crs on BSE StAR MF Platform during FY 16-17
 - Market share of 85% ,processing over 10 lac orders and adding 70,000 SIP's every month.
 - In June 2017, transacted volume through BSE StAR MF in liquid was Rs.5259 Crs and nonliquid was Rs. 2924 Crs
- BSE StAR MF is the largest digital platform in MF Industry

Data as of June 2017

Exchange Traded Funds

Turnover (Rs Crs.)



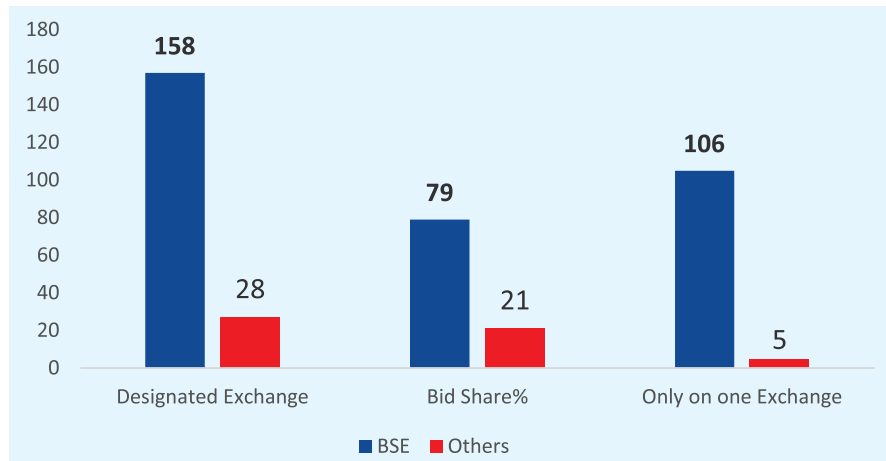
- Exchange traded fund is a security that tracks an index, a commodity or a sector like an index fund or a sectoral fund but trades like a stock on an exchange
- It is similar to a close ended mutual fund listed on stock exchanges
- BSE in its effort to bring greater participation for retail investors in the Indian landscape has tied up with market makers for ETF's
- 50 ETF listings on BSE as on May 2017*

*Source: World Federation of Exchanges

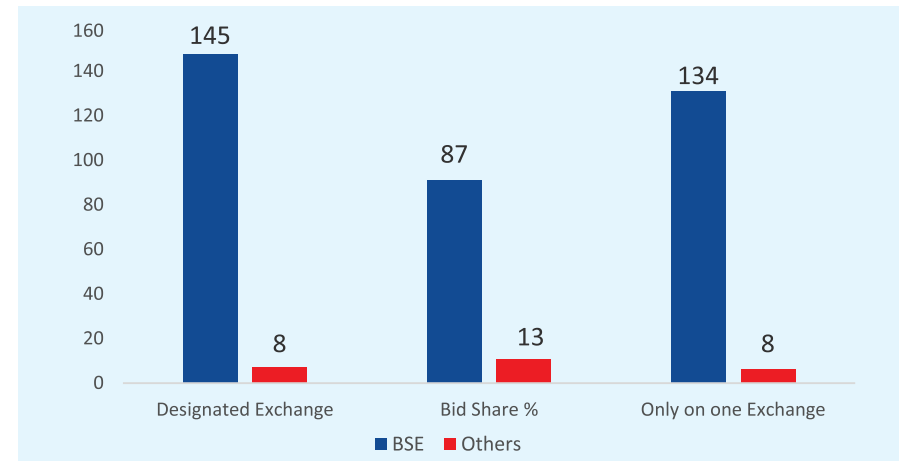
Data as of June 2017

Capital Raising Platforms - OFS/OTB/ BOND

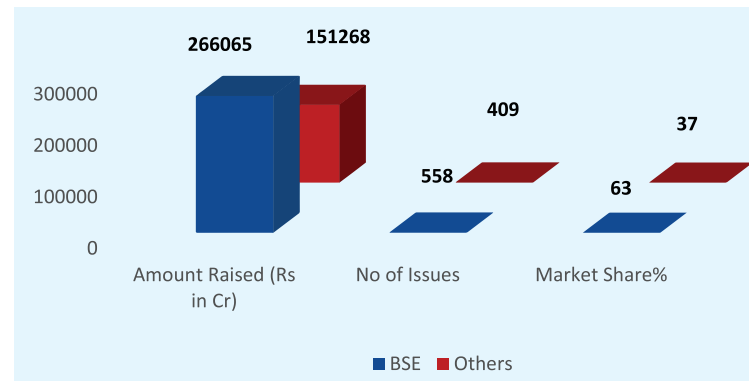
BSE's Leadership in OFS*



BSE's Leadership in OTB**



BSE's Leadership in BSE BOND***



* Since Feb 2012
 ** Since July 2015
 *** Since July 2016



Data Business

3SE
EXPERIENCE THE NEW

Data Business Product

Market Data

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

Corporate Data

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

End of day or Historical

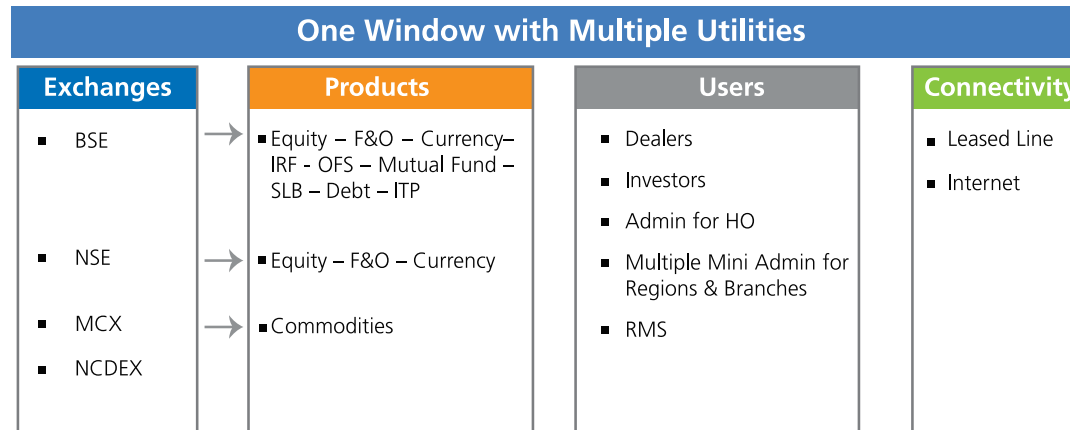
- Quotation files
- Annual report
- Daily Bulletin
- Sector Classification
- Trade and Order book data



**Technology
Initiatives**

BSE
EXPERIENCE THE NEW

Bolt plus -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.
- Supports Timer Based and Single Click square Off.
- Top Gainers / Top Losers - Most Active by VOLUME / VALUE.
- Corporate Action Information.
- Customized short cut keys - predefined Key Mapping Styles of ODIN-NOW
- NEWS Plus with RSS feeds and Twitter.
- Customized Add on of Web links.

- 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



BSE's -World Class Trading Infrastructure



- Products available for trading
 - Currency Derivatives – 29th November, 2013
 - Interest Rates Futures – 28th January, 2014
 - Equity Derivatives – 10th February, 2014
 - Equity – 7th April, 2014

- API based access -
 - Through existing IML API
 - Advanced High performance APIs (ETI, MDI/EMDI,EOBI)

- Reference Data, Risk Management, Surveillance, Clearing & Settlement, Data Warehouse

- Latency : < 6 μ s (Gateway in to Gateway out)
- Network latency for Colo users – 10 μ s
- Throughput Capacity: 5 lacs order per second
- Scalability: Horizontally scalable by adding partitions



Technology Programme –Co-location facilities

Fastest Co-location

- BSE is the fastest Exchange in the world with a speed of 6 microseconds.
- BSE provides the fastest Co-location service in India with round trip network latency of less than 10 microseconds.
- At BSE Co-location, 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.
- State-of-the-art Data Centre services from NTT – Netmagic.

BSE 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

Technology Programme-Software and Hardware

For services opted by member, BSE bears the cost on behalf of the member for;

- The software license cost for ALGO trading and market access
- The infrastructure cost on Co-location rack space
- The ALGO trading servers at Co-location
- The internet connectivity between Co-location and member's office

ALGO Trading

Algo Trading software is available from following vendors for quoting and market making in Eq. Derivatives including auto hedging capabilities across Exchanges and Segments:

- Greeksoft Technologies Pvt. Ltd
- uTrade Solutions Pvt. Ltd
- Thomson Reuters International Services Pvt Ltd.
- Symphony Fintech Solutions Pvt. Ltd.
- Resolute Softech

Cost Comparison

Service	BSE	Other Exchange
Co-location Network Bandwidth	10 Gbps fiber optic network	10 Gbps fiber optic network
Roundtrip Latency (in μ sec): Exchange Response Time	6	500 #
Roundtrip Latency (in μ sec): Colo Network*	10	500 #
Roundtrip Latency (in μ sec): Exchange Response Time + Colo Network Latency	16	1000 #
10G Switch at Member Rack	Not Mandatory	Mandatory
10G NIC Card from Exchange per member	2 Solarflare Cards (SFN7322F)	NIL
Additional cost to member for 10G migration	NIL	INR 10 – 20 Lakhs
Full Racks	Free	One Time Cost : Rs. 1 Lakh plus AMC : Rs.12 Lakhs
Half Racks	Free	One Time Cost : Rs. 50,000 plus AMC : Rs.6 Lakhs
Quarter Racks	Free	Not Available
Servers	Free	Not Available
Algo software	Free	Not Available
Interactive connectivity cost	Free	Annual Cost per connection Rs.10 Lakhs for 400 messages/sec
Market data connectivity cost	Free (including EOBI feed)	TBT feed Annual Cost per feed Full Rack : Rs.1.00 Lakh / Half Rack: Rs.1.00 Lakh

*10G network with Solarflare card SFN7322F with Onload # Based on market feedback

Sponsored Market Access

Implementation of 'Sponsored Market Access' (SMA) at Co-location

- SMA is a software distribution model in which applications are hosted by a service provider and made available to customers over a network.
- Free of cost rack space is allocated by BSE to the SMA Service providers to install their algo trading application server in BSE Co-location. The members can connect to this SMA algo server at Co-location via Internet.
- The algo strategy parameters can be triggered from the member front-end application and sent to the SMA algo server at Co-location.
- The corresponding algos will generate orders to be sent to BSE trading system through Co-location network.
- The algo orders will be sent to the BSE Trading system via the high speed Co-location gateway for minimum latency.
- Members can execute orders over high speed Co-location network without installation of any infrastructure at Co-location by the members.

Advantages

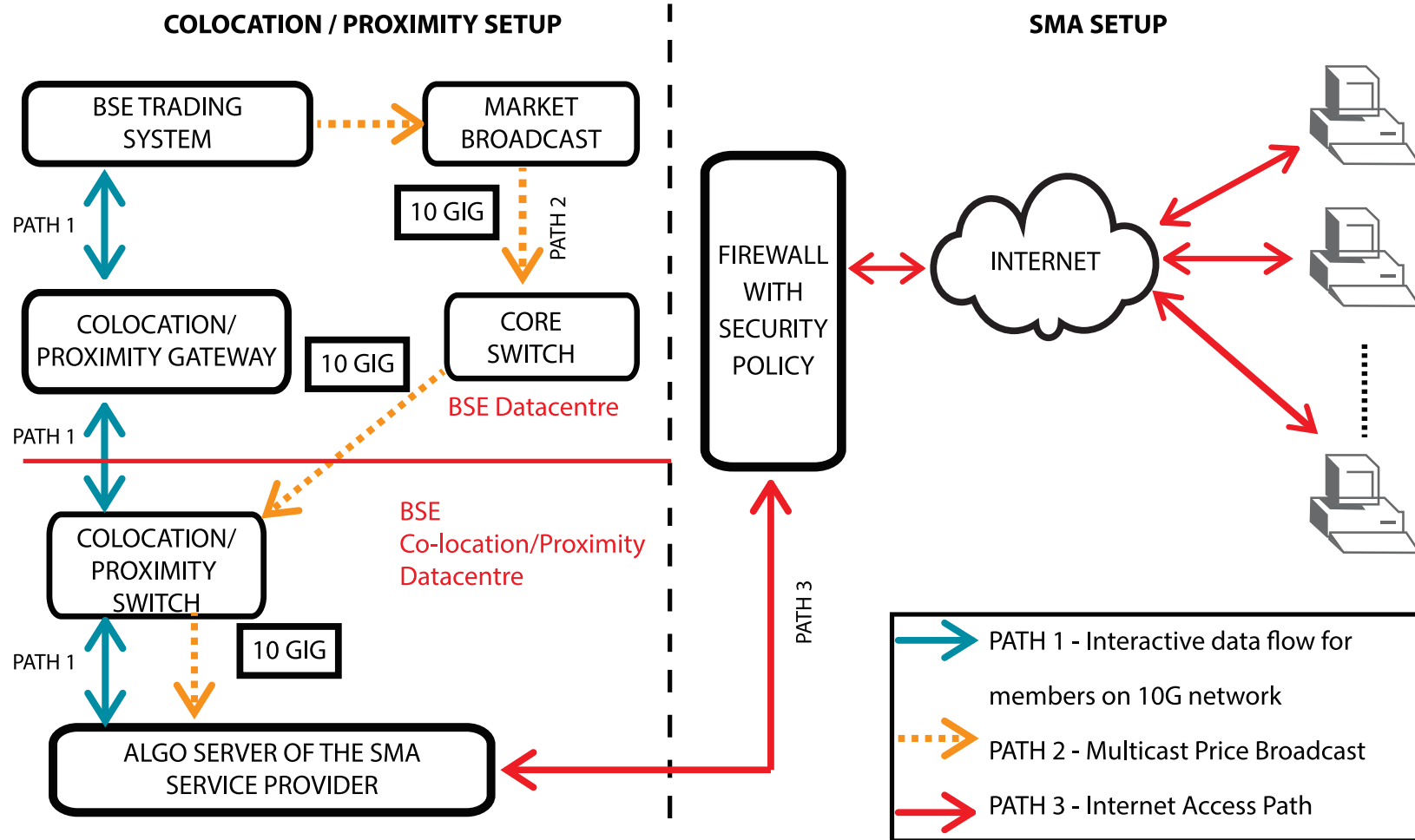
For Members

- Zero capital expenditure on infrastructure at Co-location.
- The algo orders will be generated at Co-location and sent to the BSE Trading system via the high speed 10G Co-location network for minimum latency.

For Vendors

- Free of cost rack space is allocated by BSE to SMA service providers to install their algo trading application server in BSE Co-location.
- Vendor can service multiple clients with a centralized algo server installed at Co-location. Hence, vendor's cost of maintenance is low.

Sponsored Market Access New Facility at Co-location



Contract Symbols

Bloomberg Ticker	Category	Type
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	Type
0#BIF	S&P BSE SENSEX Equity Index	Futures contract
0#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
0#BIR	Currency USD/INR	Futures contract
0#BEU	Currency EUR/INR	Futures contract
0#BGB	Currency GBP/INR	Futures contract
0#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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m@bseindia.com | bdm@bseindia.com



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