

BSE UPDATE JANUARY 2021



BSE - INTERNAL

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EVOLUTION OF THE EXCHANGE





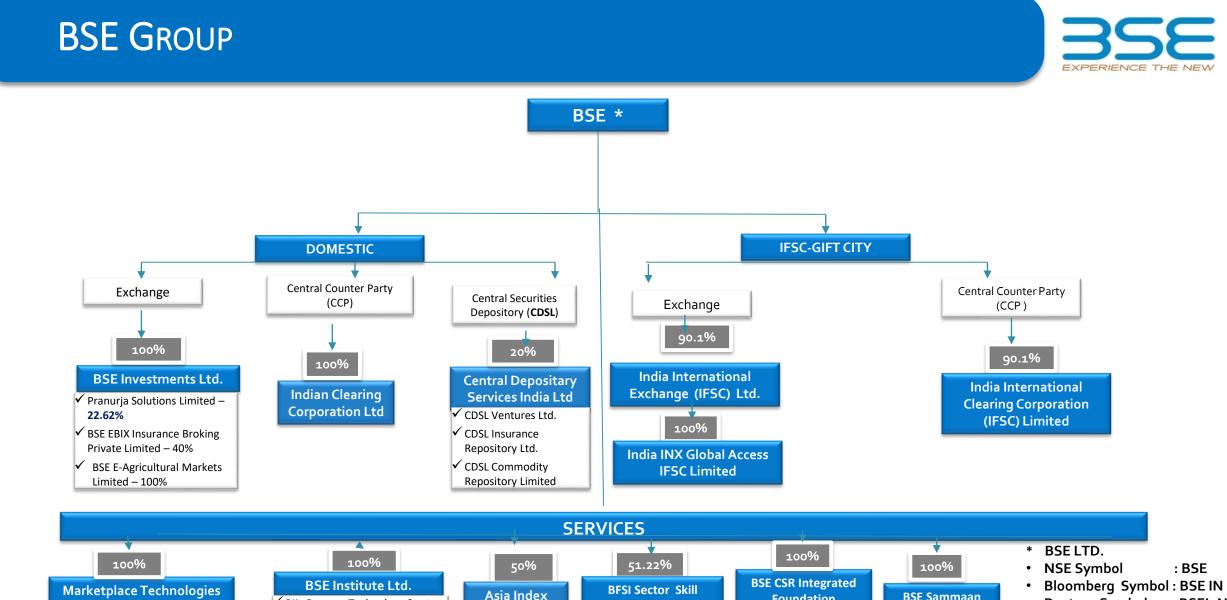






Key Milestones

| Date | | | |
|------------------------------------|--|------------------------|--|
| 03 rd Feb, 2017 | BSE becomes India's 1st listed Stock Exchange | | |
| 16 th Jan <i>,</i> 2017 | Commencement of Trading at India INX | 15th May ,2019 | BSE launches StAR MF mobile application for IFA's –"IFA StAR MF Mobility" |
| 09 th Jan, 2017 | Hon'ble Prime Minister of India, Shri Narendra Modi inaugurated India International Exchange (IFSC) Ltd, India's 1st International Exchange | 1st Oct ,2018 | BSE launches its commodity derivatives segment making it India's 1st Universal Exchange |
| 09 th July, 2016 | Shri Arun Jaitley, Hon'ble Minister of Finance Unveiled the Commemorative Postage Stamp Celebrating 140 glorious years of BSE | 01st Aug ,2018 | BSE launches 'chatbot', "Ask Motabhai", for faster, more convenient access to stock market information |
| 02 nd Jan, 1986 | S&P BSE SENSEX, country's first equity Index launched (Base Year: 1978-79 =100) | 17th July ,2018 | BSE building received trademark |
| 31 st Aug, 1957 | BSE granted permanent recognition under Securities Contracts (Regulation) Act (SCRA) | 2017, 15th Nov | BSE's 100% subsidiary, Marketplace Tech Infra Services, goes live with hosted trading platform BEST(BSE Electronic Smart Trader) |
| 09 th July 1875 | The Native Share & Stock Broker's Association formed | 26th Oct <i>,</i> 2017 | India's Premier Stock Exchange BSE and World's largest Insurance Exchange Ebix, Inc. Sign MOU to Launch Joint Venture Company, for Setting up Pioneering Insurance Distribution Network in India |



Pvt Ltd.

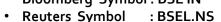
Council of India

(Section 8 company)

BSE Institute Ltd. (BIL)

✓ BSE-48.78%

2.44%



BSE Sammaan

CSR Limited

Foundation

[Section 8 Company]

BSE Subsidiaries -25%

✓ BSE-75%

✓ Marketplace Tech Infra Services Pvt Ltd.

Pvt Ltd.

✓ BIL- Ryerson Technology Startup

company] (Stake 51%)

BSE Institute of Research

Development & Innovation

Incubator Foundation [Section 8

✓ Marketplace EBIX Technology Services Private Limited - 40% 5

BSE SHAREHOLDING PATTERN



| % |
|-----------|
| 29.02% |
| 0 |
| 70.98% |
| 0 |
| 0 |
| |
| 0 100% |
| |

*Market Capitalization \$ 2,590.96 Billion (Market capitalization as on 4th Jan 2021)

BSE & ITS PARTNERS





- Marketing and Branding of BSE Indices
- New Index Product





 2.39% investment in BSE by State Bank of India as on 31.12.2020 key user and supporter of platform

INSURANCE DISTRIBUTION

 BSE EBIX Insurance Broking Private Ltd JV with EBIX Received approval. Beta Launch initiated



Board Presence

- 5.61% investment in BSE as on 31.12.2020
- Key user and supporter of platform

*Conversion rate is taken \$1 = Rs. 73.59

KEY HIGHLIGHTS





| 1 | Name/Title | Description |
|----|--|--|
| | Justice Vikramajit Sen Former Supreme Court Judge an Chief Justice, High Court of Karnataka Chairman & Public Interest Director | Born on 31st December 1950. Attended St. Xavier's School, Delhi and passed the ISC in the First Division. Graduated from St. Stephen's College with Honours in History. Attained First Division in LLB from Faculty of Laws, Delhi University, and was awarded the First Prize in Moot Court and Silver Medal in Labour Laws. Captained Faculty Teams in Basketball and Tennis and was chosen Sports Secretary. Practiced in all the Courts in Delhi, although primarily in the High Court of Delhi. Handled civil, arbitration and commercial disputes. Had a special interest and consultancy on miority rights. Member - 7th and 8th Synod, Church of North India; Delhi Diocesan Council, CNI; New Delhi YMCA, Board of Directors. Board of Governors – St. Stephen's College, Delhi; Bishop Cotton School Shimia; Queens Mary's School, Delhi; St. Stephen's Hospital, Tis Hazari, Delhi; Philadelphia Hospital; Ambala. Managing Committees of several other Christian Institutions. Pursued special interest and consultancy on Minority rights in India. Core Member of the Inter Denomination Committee under aegis of the Catholic Bishop's Conference of India for recommendations of amendments to the Personal Laws relating to Christians in India. Appointed as an Additional Judge of the Delhi High Court on 7th July 1999. Appointed permanent Judge on 30.10.2000. Member of the Malta Judicial Conference under the auspices of the Hague Convention; Addressed the South Asia Forum for Infrastructure Regulation Workshop organized by Bangladesh Telecommunication Regulatory Commission during August 3-4, 2002; Invited by United Mations Economic and Social Commission for Asia and the Pacific (UNESCAP) to the Regional Expert Conference on "Harmonized Development of Legal and Regulatory Systems for E-commerce in Asia and the Pacific Current Challenges and Capacity Building Needs" at Bangkok, Thailand from July 7-9, 2004; Participated in the 'Global Intellectual Property Academy (GIPA) Session on enforcement of Intellectual Property Rig |
| 8` | | BSE - INTERNAL |

| Justice Vikramajit Sen Former Supreme Court Judge and Chief Justice, High Court of Karnataka Chairman & Public Interest Director | On 12.09.2011 appointed as Acting Chief Justice – High Court of Karnataka and assumed office as Chief Justice, High Court of Karnataka on 24th December 2011. Took oath as Judge, Supreme Court of India on 24th December 2012 Retired on 30.12.2015 (F.N.) Invited by the Japanese Government to its Symposium on Civil Aspects of Child Abduction under The Hague Conference on Private International in Tokyo in June 2016. Invited as the Guest Speaker at the commencement session of the New Delhi Conference of the International Association for Family Law, held at the India International Centre on 13th September 2016. Appointed as FIFA Observer to oversee the elections of CAF in Cairo in September 2016. Appointed as the Sole Administrator of the Delhi District Cricket Association (January 2017-June 2018). Appointed by the Government of Karnataka as the Chairman of the Draft Amendment Committee for Karnataka Private Medical Establishments Act, 2007. Chairperson of the Broadcasting Content Complaints Council (BCCC) for the term 12-07-2017 to 11-7-2020 Appointed as Sole Arbitrator, or Presiding Arbitrator, or a Member of the Arbitral Tribunal in several domestic and international Arbitrations including LCIA, ICC and SIAC, in India as well as in Singapore and London. Passed 23 Arbitral Awards till date (12 Awards as Sole Arbitrator and 11 as Presiding Arbitrator or as a Three Member Arbitral Tribunal) Awarded the 'Capital Foundation Justice Kuldip Singh National Award' by the Capital Foundation Society, in recognition of the outstanding contribution to Environmental Protection |
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|---|---|

Name/Title

Description

| | Shri Ashishkumar Chauhan Managing Director & CEO | Ashishkumar Chauhan is the MD & CEO of BSE, Asia's oldest exchange, World's fastest exchange with 6 Micro seconds response time, World's largest exchange with 5,000 plus listed companies and India's first universal exchange to offer trading across all asset classes. He is credited with reviving BSE and completing its IPO - which was oversubscribed more than 51 times. He was instrumental in setting up India's first International Exchange, India International exchange, inaugurated by India's Prime Minister Shri Narendra Modi in January 2017. Prior to joining BSE, from 2000 to 2009, Ashish worked at Reliance Industries, India's largest conglomerate as President and Group CIO, Head of Corporate communications and CEO of Cricket team Mumbai Indians in its formative years. From 1993 to 2000, he setup India's National Stock Exchange (NSE), primarily on technology, Screen based trading system, satellite communications network, equities and derivatives businesses, and Nifty index amongst his many responsibilities. He is considered the father of modern financial derivatives in India due to his work at NSE. He received several Indian and International awards including Distinguished Alumnus Awards from both his Alma Mater IIT Bombay and IIM Kolkata, a rare achievement. He has also been awarded "Digital Icon of Year" by Indian Express Group and ranked amongst the top CEOs in financial markets by Asian Banker, amongst top 50 CIOs in the world by Information Week US. He is a member of several committees of Government, Regulators and international associations. He is a member on the Board of Directors at IIM Raipur, Gokhale Institute of Politics and Economics and NIFM Faridabad and served as the chairman of NIFM Tanipur. He is a distinguished willing faculty at Ryerson University in Torono and Honorary Professor at Nottingham University Business School. He co-authored a book on the history of the BSE titled "The Temple of Wealth Creation". |
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| | Name/Title | Description |
|-----|--|--|
| | Shri Sumit Bose IAS (Retd.) Former Union Finance Secretary Public Interest Director | Description Shri Sumit Bose joined the Indian Administrative Service in 1976 and allotted to the Madhya Pradesh Cadre. After superannuation was Member, Expenditure Management Commission set up to review the allocative and operational efficiencies of Government expenditure to achieve maximum output. The Commission concluded its work end February 2016 after giving a series of reports inter alia on fiscal management, defence expenditure, streamlining administrative processes and public procurement and social sector spending. Immediately prior to superannuation, was the Union Finance Secretary (as Secretary, Department of Revenue). Had also served as Secretary (Expenditure) and Secretary (Disinvestment) as well as Secretary in the Thirteenth Finance Commission, consecutively in the Ministry of Finance, GOI since August 2007 till superannuation. Was member of the core group for the Union Budget from 2010 to 2015. Served the Government of Madhya Pradesh (GoMP) as Principal Secretary (Finance) during which tenure various reforms including fiscal responsibility legislation, outcome budgeting, extensive use of the PPP mechanism, contributory pension scheme was introduced in MP. Had also done an early stint in the Department of Economic Affairs, MOF, GOI as Deputy Secretary in the Fund Bank Division. Have been involved in several assignments in the field of education for more than eight years, first as Secretary, School Education in the GoMP and then as Joint Secretary in the Ministry of HRD, GOI. During the latter assignment, was responsible for the launch and execution of Sarva Shiksha Abhiyan for universalization of Education, served in the Chief Minister's Office in two stints, first as Special Assistant as a junior officer and later as Secretary to the Chief Minister. Undertook various consultancy assignments on aid effectiveness, land acquisition and resettlement and primary education with the World Bank, Commonwealth Secretariat, United Nations Development Programme and |
| 11` | | educate girls globally ,HDFC Standard Life Insurance Company Limited, HDFC Pension Management Company , J. B. Chemicals & Pharmaceuticals Limited, Vice Chairman National Institute of Public Finance and Policy, New Delhi, Chairman, Board of Directors of Vidhi |
| | | Centre for Legal Policy, New Delhi, Board of Governors of The Doon School, Dehradun, a Member, Governing Body, Parivaar Education Society, Kolkata ,Director ,Jal Seva Charitable Foundation. |

| ame/Title | Description |
|--|--|
| Shri S.S. Mundra Public Interest Director | Mr. S.S. Mundra retired as Deputy Governor of Reserve Bank of India on 30th July 2017 after completing a stint of three years. Prior to that, the last position held by him was as Chairman and Managing Director of Bank of Baroda from where he superannuated in July 2014. In a banking career spanning over four decades, Mr. Mundra held several important positions including that of Executive Director of Union Bank of India, Chief Executive of Bank of Baroda (European Operations) amongst others. He also served as RBI's nominee on the Financial Stability Board (G20 Forum) and its various committees. Mr. Mundra was also the Vice-chair of OECD's International Network on Financial Education (INFE). Prior to joining RBI, Mr. Mundra also served on Boards of several multi-dimensional companies like the Clearing Corporation of India Ltd (CCIL), Central Depository Services (India) Ltd. (CDSL), BOB Asset Management Company, India Infrastructure Finance Corporation of India Ltd. (CIL), IndiaFirst Life Insurance Company Ltd., Star Union Dai-Ichi Life Insurance Company Ltd., National Payments Corporation of India Ltd., etc. The experience gained in guiding these entities has bestowed him with wide leadership skills and keen insights in best practices in Corporate Governance. Mr. Mundra has been a regular presence as a Speaker on various Forums. He has delivered more than 100 speeches/presentations on diverse issues viz. banking, financial inclusion & literacy, MSME financing, audit, Fraud Risk Management, Cyber security, Consumer Protection, Human Resource Management etc. at both domestic and international forums. Many of these speeches have been published on the websites of Reserve Bank of India and that of the Bank for International Settlements. Amity University has conferred the Degree of Doctor of Philosophy (D.Phil.), Honoris Causa, upon Mr. Mundra, in recognition of his services in the field of banking and related areas. He is now on the Board of BSE Ltd., DSP Investment Managers |

| Name/Title | Description |
|---|--|
| Shri David Wright Public Interest Director | Shri David Wright has worked for nearly 34 years in the European Commission from 1977-2011, after graduating from Worcester college ,Oxford in 1974 in politics ,economics and philosophy(PPE). He held a variety of posts including at the beginning of his career responsibility for oil and gas data in the Statistical Office, Luxembourg (1977-1981) during the second oil crisis; energy policy coordination and modelling in the Directorate General for Energy, Brussels (1982-1987); and then industrial trade policy negotiations during the Uruguay multilateral trade round (1987-1989). From 1989-1992 he was a member of President Delors' "Think Tank" called the "Cellule de Prospectives" where he worked on industrial policy and wrote the first Commission document on sustainable development. In this period he co-authored a book with Professor Alexis Jacquemin on the post-1992 EU political and economic agenda called "Shaping factors, shaping actors". From 1993-1994 he was a member of Sir Leon Brittans' Cabinet and worked on various aspects of trade and industrial policy, including completion of the Uruguay Round in 1994. In 1995 he became an Adviser to President Jacques Santer in his Cabinet – covering competitiveness, industrial not lecom policies, political relations with the UK and Ireland, financial services, risk capital and various other trade and foreign policy briefs. From March 2000 – October 2010 he was first Director, then Deputy Director-General for securities and financial Markets, then for all financial services policy in DG Internal Market and Services. He helped design and drive forward the Financial Services Action Plans to integrate the EU's capital and financial services markets. He was the rapporteur for both the Lamfalussy (2000/1) and De LaRosière Committees (2008/9), chaired the Securities and Banking Committees and represented the Commission in the Financial Services Committee and in various FSB/G20 fora. He also played a leading role in the EU-US financial markets |

| | Name/Title | Description |
|------------|---|---|
| | | Shri Umakant Jayaram has 27 yrs Cross functional experience in Global Investment Banking, Finance Planning & Analysis , Risk Consulting / Business transformation. |
| | Shri Umakant Jayaram Public Interest Director | Shri Umakant Jayaram has successfully led the Global Finance Planning and Analysis services function for JP Morgan Chase Investment Bank and delivered key breakthroughs in finance technology architecture change, in the area of Analytics and Business intelligence. He has also directed the Global Markets Structuring function in Deutsche Bank CIB centre in India. He has directed the Global Markets Operations strategy for ABN AMRO Investment Bank Operations across Equities, Fixed Income and Derivatives Clearing and Settlements. He is well versed with emerging markets products pricing, risk, regulatory and compliance issues relating to financial markets. |
| | | |
| | | Su Shri Jayshree Vyas, a professionally qualified Chartered Accountant has been working as the Managing Director of Shree Mahila Sewa Sahakari Bank, Ahmedabad since 1986 which has more than 5,00,000 women clients. During her tenure she has taken active steps to introduce and operate an |
| | | Integrated Micro Insurance Scheme for women working in the informal sector. This scheme was introduced for the first time in the country and in a short period of three years covered more than 150,000 women. She has also devised and implemented various housing finance schemes, which have |
| | | been accessed by over 20,000 poor women. She has introduced, organized and managed savings groups of poor women in more than 5000 villages in |
| | | nine districts of Gujarat. This scheme has helped more than 150,000 women start saving for the first time in their lives, and availed credit facilities for |
| | | coming out of the vicious circle of Poverty. In addition, she has prepared modules and manuals for providing training for running effective saving and credit programs for various national voluntary organizations involved in similar activity |
| | Su Shri Jayshree Vyas Public Interest Director | • In the year 2001, financial literacy programme was introduced in Sewa Bank, first of its kind in India – at initiative of Su Shri Jayshree Vyas |
| 1. · · /// | | In the year 2006, Micro Pension Scheme was introduced for Sewa Bank Members (Unorganized sector workers) under her leadership |
| | | Some of her key appointments include: Managing Trustee in Indian School of Micro finance for women (ISMW, Ahmedabad). |
| | | Board Director in Ananya Finance for Inclusive Growth Pvt. Ltd. |
| | | Board Director in TFC (Trade Facilitation Center). |
| | | Board Director of Gujarat Urban Cooperative Bank Federation. |
| | | • Member of Advisory Committee of SEBI (Securities and Exchange Board of India)- Investor's Protection and Education Fund" (IPEF). |
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Shri T.C. Suseel Kumar Shareholder Director

- Shri T.C. Suseel Kumar is Managing Director of Life Insurance Corporation of India since March 2019. A Post Graduate in Economics with a sound academic record and a University rank, Shri Suseel Kumar joined the Corporation as a Direct Recruit Officer in 1984. During his tenure of more than 3 decades in the Corporation, he has held various positions in the Corporation pan India and abroad. His illustrious career spanned over different streams that include Marketing, Customer Relationship Management, Human Resource Development, Bancassurance and Investments besides heading foreign operations in Mauritius.
- His acumen in business development over the years has helped him to redefine the ways of business dynamics and the Corporations started seeing a resurgence in new business, both in increased sales and sustained premium. The fierce competition was met with timely interventions and strategies unveiled by Shri Suseel Kumar that kept the intermediaries and agents on their performing best during 2019-20. The renewed focus on first year premium was his brainchild and that has seen the Corporation increase its market share and also to consolidate significantly thru the fiscal 2019-20. The YOY Market share in FYPI had seen a surge of 2.50% to 69%.
- He 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. He has a strong belief in simple and innovative products coupled with seamless sales process thereby building the organizational capabilities and preparing the Corporation for a bright future.
- Presently he is on the board of Axis Bank Limited, LIC Pension Fund Limited, LIC Mutual Fund Trustee Pvt Limited and LIC Lanka Limited.



| NAME / TITLE | DESCRIPTION |
|---|--|
| Shri Ashishkumar Chauhan Managing Director & Chief Executive Officer | Ashishkumar Chauhan is the MD & CEO of BSE, Asia's oldest exchange, World's fastest exchange with 6 Micro seconds response time, World's largest exchange with 5,000 plus listed companies and India's first universal exchange to offer trading across all asset classes. He is credited with reviving BSE and completing its IPO - which was oversubscribed more than 51 times. He was instrumental in setting up India's first International Exchange, India International exchange, inaugurated by India's Prime Minister Shri Narendra Modi in January 2017. Prior to joining BSE, from 2000 to 2009, Ashish worked at Reliance Industries, India's largest conglomerate as President and Group CIO, Head of Corporate communications and CEO of Cricket team Mumbai Indians in its formative years. From 1993 to 2000, he setup India's National Stock Exchange (NSE), primarily on technology, Screen based trading system, satellite communications network, equities and derivatives businesses, and Nifty index amongst his many responsibilities. He is considered the father of modern financial derivatives in India due to his work at NSE. He received several Indian and International awards including Distinguished Alumnus Awards from both his Alma Mater IIT Bombay and IIM Kolkata, a rare achievement. He has also been awarded "Digital Icon of Year" by Indian Express Group and ranked amongst the top CEOs in financial markets by Asian Banker, amongst top 50 CIOs in the world by Information Week US. He is a member of several committees of Government, Regulators and International associations. He is a distinguished visiting faculty at Ryerson University in Toronto and Honorary Professor at Nottingham University Business School. He co-authored a book on the history of the BSE titled "The Temple of Wealth Creation". |



| | Name/Title | Description |
|-----|---|--|
| Ini | Shri V Balasubramaniam Managing Director & Chief Executive Officer (India INX) | 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)BSE Institute Limited – Education business, 2)BSE Sammaan – CSR Exchange and 3)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 Neeraj Kulshrestha Chief Regulatory Officer | Shri Neeraj Kulshrestha heads the regulatory functions of the exchange including membership compliance, surveillance, inspection, investigation, regulatory communication, investor services, listing compliance and regulatory legal. At BSE he was earlier responsible for Business Development, Trading, Membership and Listing Operations and Development. He has about 27 years 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. |
| | Shri Nayan Mehta Chief Financial Officer | 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. |



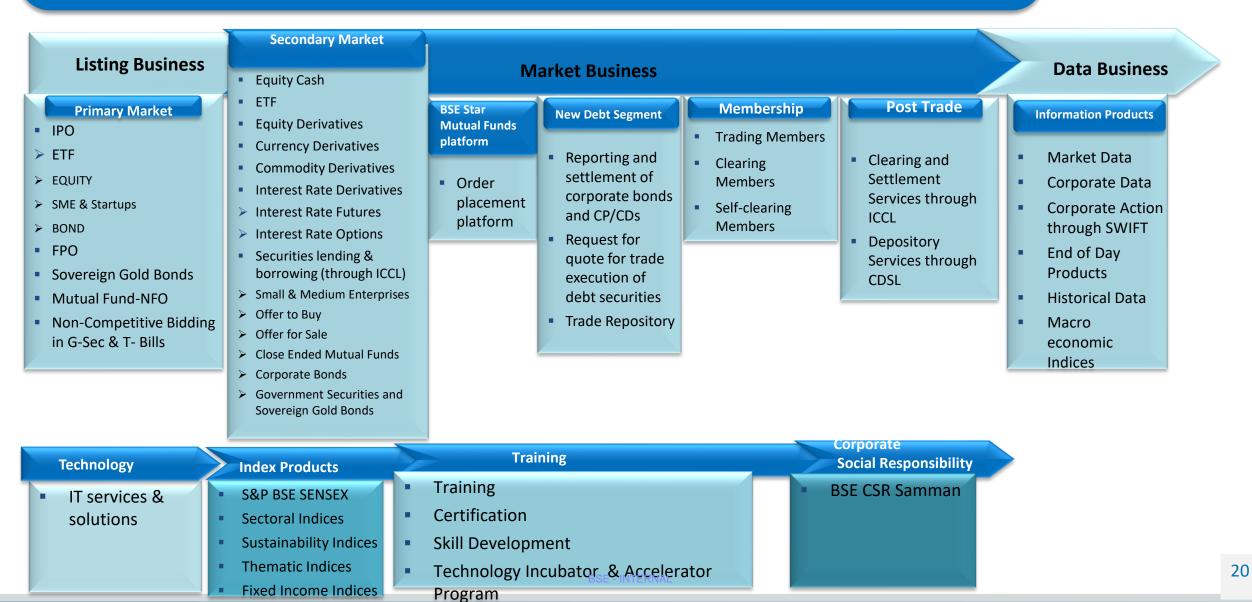
| Name/Title | Description |
|--|---|
| Shri Kersi Tavadia Chief Information Officer | Shri Kersi Tavadia has over 30 years of experience in the area of Application Systems/ IT Infrastructure development and management, managing all aspects of IT operations in Financial Services, Capital markets and 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 Sameer Patil Chief Business Officer | Shri Sameer Patil heads the Business Development of the exchange including equity & equity derivatives, currency derivatives, commodity derivatives, fixed income, debt and mutual funds. He is instrumental in setting up and responsible for Business Development of INDIA INX at GIFT CITY IFSC. Currently, INDIA INX has more than 90% market share. He is a board member of INDIA INX Global Access (INDIA INXGA). He has about 21 years of experience in financial sectors like Commodities, Currency Derivatives, Indices etc and has experience in Trading, Hedging Strategies, Product Designing and Business Development. He was associated with MCX since inception for more than a decade as Senior Vice President – PKMT (Precious Metals) & Business Development and K J Investors Services (I) PVT LTD, an affiliate of Cargill Investors Services, Illinois, Chicago, USA as Senior Financial Analyst. He is credited for successful launch of the flagship contracts on MCX the Gold, Silver, WTI Crude Oil and Copper contracts. The Gold Petal contract launched on April 18, 2011 was awarded as the Best Innovative contract of the year by FOW Singapore. He is awarded the "India UAE business Ambassador of the year 2018" at Abu Dhabi and was nominated for the prestigious IIFC awards for excellence in respective fields. Past recipients of the awards being Mother Teresa, APJ Kalam, Rajesh Khanna, Sunil Gavaskar etc. He is Science Graduate from Mumbai University and MBA in finance |

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| Name/Title | Description |
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| Shri Girish Joshi Chief Trading Operations and Listing Sales | Description Shri Girsh Joshi heads the Trading Operations and Listing Sales of the Exchange. He has worked with ICICI Bank Group for 10 years. At ICICI Bank Group he worked in various areas like ICICIDirect.com, Treasury Mid Office and in the area of Regulatory Reporting and Monitoring at CFO office of the Bank. He was also one of the earliest core team members who were involved in the set-up of National Stock Exchange (NSE). During 7 years at NSE he worked in Wholesale Debt Market and post trade functions. He was also a member of Corporate Bonds and Securitization Advisory Committee (CoBoSAC) of Securities and Exchange Board (SEBI) of India. He represents BSE in Sustainability Working Group (SWG) of World Federation of Stock Exchange (WFE) and also Sustainable Stock Exchange initiative of the United Nations. He has represented BSE in various sub groups formed by SEBI for market developments like E-IPO / T+3 listing, Regulatory Framework for Index Providers, Development of CBLO type products for Corporate Bonds, Listing of REITs and InVit etc. He has also represented BSE on the Secretarial Standard Board (SSB) formed by the Institute of Company Secretary of India (ICSI). Currently he is also co-opt member of Western India Regional Council of ICSI. Shri Girish Joshi, a Commerce Graduate from Sydenham College of Commerce and Economics, Mumbai is a Chartered Accountant as well as a Cost Accountant by qualification |

LINES OF BUSINESS







TOTAL FUND MOBILIZATION THROUGH (EQUITY AND DEBT)

- Total Rs. 89,070.46 crores (\$ 12.54 billion*) have been raised in Indian Markets through Stock Exchanges in India since April 2019
- Rs. 64,876.72 crores (\$9.13billion*) have been raised at BSE since April 2019
- BSE is the market leader with 75% of total funds raised
- BSE has the largest number of listed companies in world



- BSE is the preferred choice amongst entities for listing Privately Placed Debt Instruments (PPDI). In F.Y. 2020-21 (till December 31, 2020), corporates have raised Rs. 4,25,836.665 Crores (\$ 58.24 billion) through Privately Placed Debt Instruments on BSE. In F.Y. 2019-20, 1424 Instruments were listed on BSE with an amount totalling to Rs. 4,71,637 crores (\$ 62.85 billion) vis-a-vis 515 instruments on other Exchange(s).
- Amounts raised via Rights Issue on BSE in F.Y. 2020-21 (till December 31, 2020) is Rs. 60,906.91 Crores (\$ 8.33 billion) and whereas for the F.Y. 2019-20 it was Rs.55,672 crores (\$ 7.30 billion).
- In F.Y. 2020-21 (till December 31, 2020), corporates have raised Rs. 27,415.57 crores (\$ 3.75 billion) through Preferential Issues on BSE. In the past financial year, i.e. F.Y. 2019-20, the fund raising via preferential issues on BSE was Rs. 2,02,106 crores (\$ 22.91 billion).
- Listed Corporates have mobilized Rs. 67,833.7 crores) (\$ 9.28 billion) via Qualified Institutional Placement ("QIP") transactions (till December 31, 2020) in F.Y. 2020-21 against Rs 54,389.20 crores (\$7.13 billion) in F.Y 2019-20.
- Amount raised via Commercial Paper on BSE in F.Y. 2020-21 (till December 31, 2020) is Rs. 7,20,600 Crores (\$ 98.55 billion) against Rs 4,33,730 crores (\$56.86 billon) in F.Y.2019-20

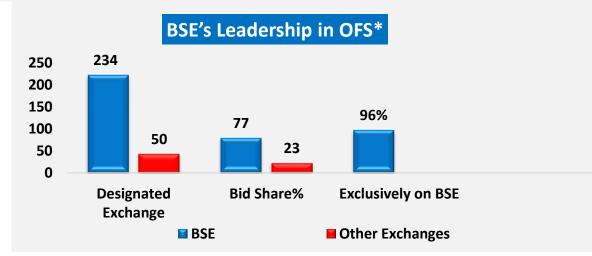
BSE - INTERNAL

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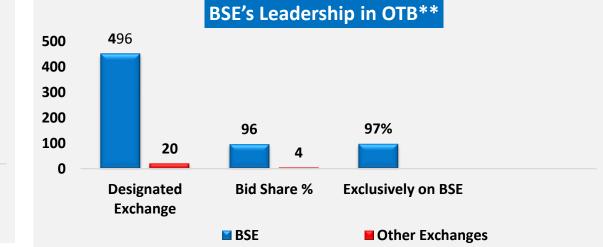
Figures does not include Amount Raised in SME segment at BSE and Other Exchanges

CAPITAL RAISING PLATFORMS - OFS/OTB/ BOND PLATFORM

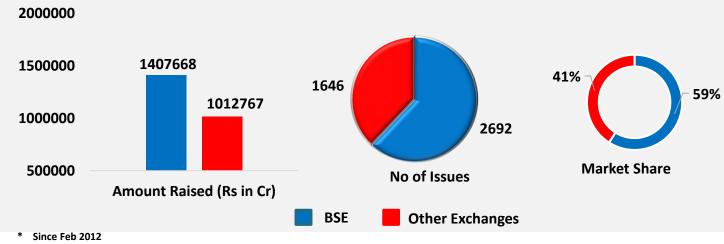




• **OFS** is a mechanism provided by the Exchange for promoters to dilute their holdings in listed companies in a transparent manner through a separate window with wider investor participation.



OTB is Acquisition window enabled for facilitating Buyback, Takeover and Delisting for listed companies



BSE's Leadership in BOND Platform***

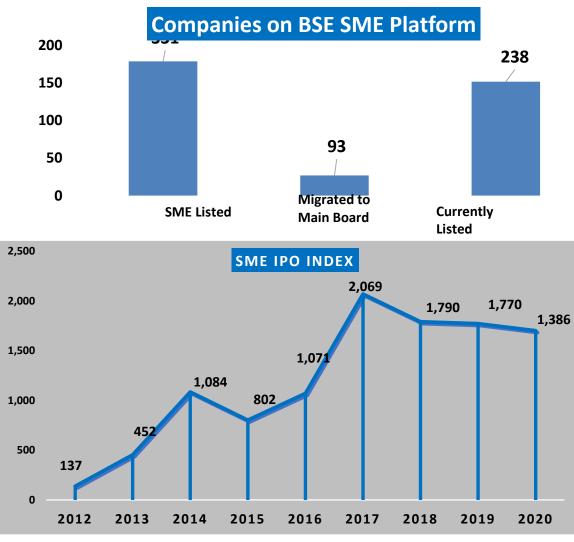
BSE BOND is the Electronic Book Mechanism(EBM) offered by BSE to carry out the bidding process for private placement of debt securities in the primary market.

It is an efficient, transparent and a user-friendly mechanism for price discovery of Privately Placed Debt Instrument (PPDI) issuances.

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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 16th August, 2012 is aimed at tracking the companies listed on SME platform was launched on 14th December 2012. As on 31st December,2020 its value was 1,385.90.
- 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.

Market Capitalization of 238 companies -Rs.9,500.57 Crs. (USD 1301.44 Million)

Market Capitalization of 93 companies Migrated to Main Board – Rs.11,825.84 Crs. *(USD 1619.97 Million). Conversion rate is taken \$1= Rs. 73.



BSE - INTERNAL

BSE STARTUPS – INDIA'S 1ST STARTUP PLATFORM

- BSE is the first stock exchange in India to launch Startups Platform on 22nd December 2018
- 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.
- No. of companies listed- 7
- Market Capitalization–Rs. 80.03 Crs *(\$10.963 millions)
- *****(Conversion rate is taken \$1 = Rs. 73)

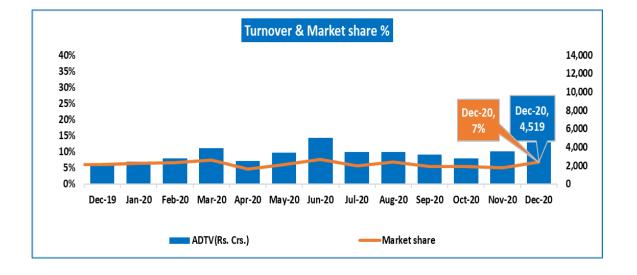
100% of Market Share in terms of number of Startups listed





EQUITY CASH MARKET





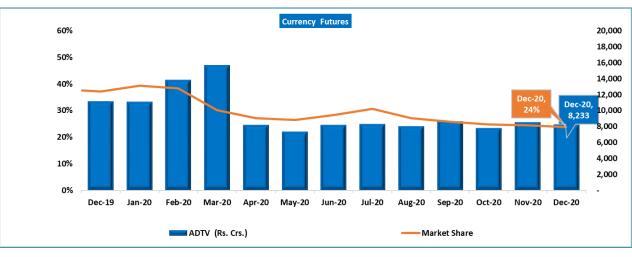
Revision in transaction charges of equity segment w.e.f August 01, 2018

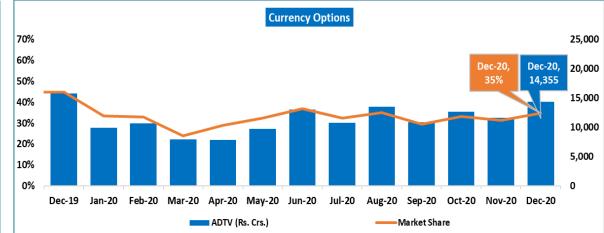
| Monthly Turnover in Rs. Crs in calendar month | Rate (in Rs.) per Crore on incremental turnover. |
|--|---|
| Upto 750 | 300 |
| Above 750 upto 1500 | 290 |
| Above 1500 Upto 2500 | 280 |
| Above 2500 upto 5000 | 270 |
| Above 5000 upto 7500 | 260 |
| Above 7500 | 250 |

https://www.bseindia.com/markets/MarketInfo/DispNewNoticesCirculars.aspx?page=20180719-36

CURRENCY DERIVATIVE







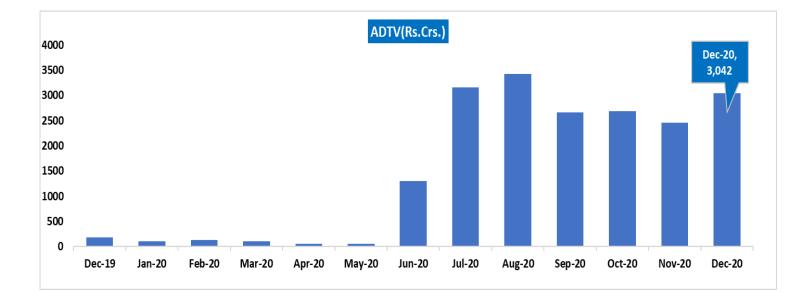


| Sr.No. | Currency Options - Charges Applicable per crore on premium Value (on both active and passive side) | | |
|---|---|---|--|
| 1 | Rs.100/- | | |
| Revision in Transaction charges in Currency Derivative Segment w.e.f 1 st Jan 2018 | | | |
| Sr.No | Incremental Monthly Turnover in Currency Futures (Rs. Crore) | Currency Futures - Charges Applicable per crore (on both active and passive side) | |
| 1 | Turnover < Rs.5,000 Crores | Rs.22 | |
| 2 | Turnover => Rs.5,000 Crores & < Rs.10,000 Crores | Discount of 25% on Rs.22 (i.e. Rs.16.50) | |
| 3 | Turnover => Rs.10,000 Crores & < Rs.20,000 Crores | Discount of 50% on Rs.22 (i.e. Rs.11) | |
| 4 | Turnover => Rs.20,000 Crore | No Transaction charges | |
| | | 28 | |

Data as of December 2020

COMMODITY DERIVATIVES





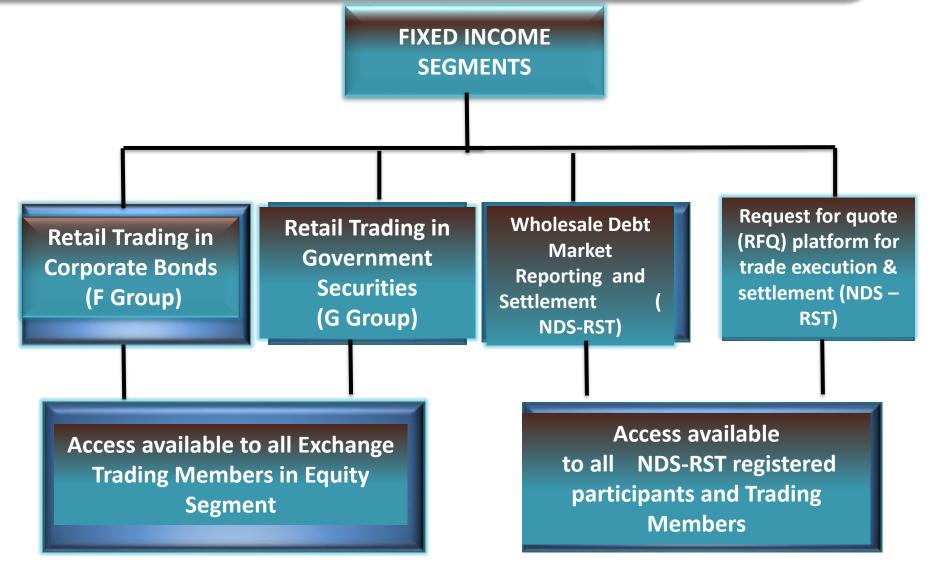
| Commodity Launch details | | | |
|--------------------------|-------------------------|--|--|
| NAME OF THE | DATE OF COMMENCEMENT OF | | |
| PRODUCT | BUSINESS | | |
| AGRI COMMODITIES | | | |
| GUARSEED | 06-Feb-19 | | |
| GUARGUM | 06-Feb-19 | | |
| COTTON | 18-Feb-19 | | |
| TURMERIC | 28-Jun-19 | | |
| ALMOND | 22-Jun-20 | | |

| Commodity Launch details | | | | |
|--------------------------|-------------------------------------|--|--|--|
| NAME OF THE PRODUCT | DATE OF COMMENCEMENT OF BUSINESS | | | |
| NON-AGR | RI COMMIDITIES | | | |
| GOLD (1 KG) | 01-Oct-18 | | | |
| SILVER (30 KG) | 01-Oct-18 | | | |
| OMANCRUDE | 26-Oct-18 | | | |
| COPPER | 02-Nov-18 | | | |
| GOLDM | 18-Feb-18 | | | |
| SILVERMINI | 13-Jun-19 | | | |
| SILVER KG | 13-Jun-19 | | | |
| BRENT CRUDE OIL | 27-Jan-20 | | | |
| ALUMINIUM | 27-Jan-20 | | | |
| ZINC | 27-Jan-20 | | | |
| GOLD M OPTIONS | 01-Jun-20 | | | |
| SILVER KG OPTIONS | 01-Jun-20 | | | |
| GOLD (1KG)-OPTIONS | 24-Aug-20 | | | |
| SILVER (30 KG) OPTIONS | 24-Aug-20 | | | |

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FIXED INCOME SEGMENT OVERVIEW

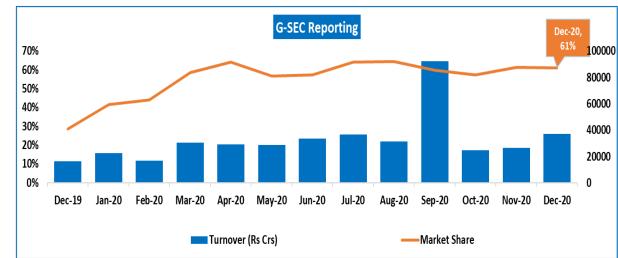


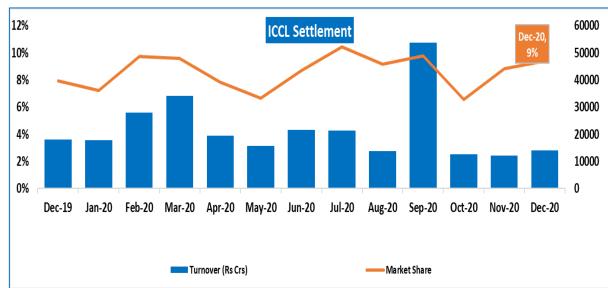


BSE - INTERNAL

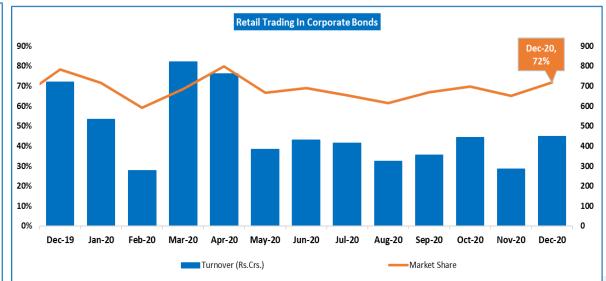
FIXED INCOME SEGMENTS









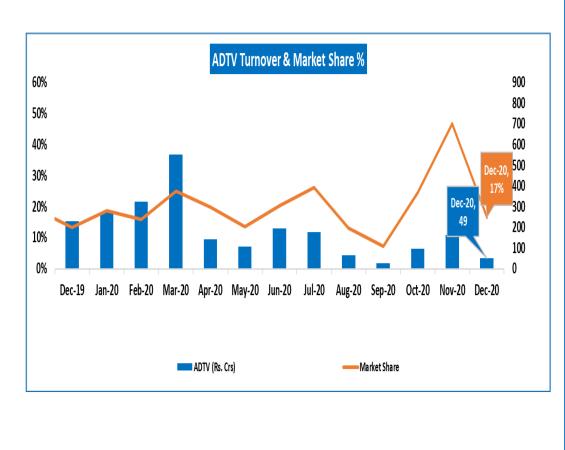


Data as of December 2020

BSE - INTERNAL

INTEREST RATE DERIVATIVES





In India, Exchange traded futures have been available since 2014. BSE launched interest rate futures in November 2014 and interest rate options in August 2019. These contracts are a part of currency derivatives segment. It is our continuous endeavour to provide the widest range of offerings for investors and traders. Interest rate futures on below mentioned Government of India securities are currently available for trading :

- ➢ 726GS2029
- ➢ 768GS2023
- ➢ 727GS2026
- 717GS2028
- ➢ 668GS2031
- ➢ 795GS2032
- ➢ 757GS2033
- ➢ 645GS2029
- > ONMIBOR
- ➢ 91DTB

32

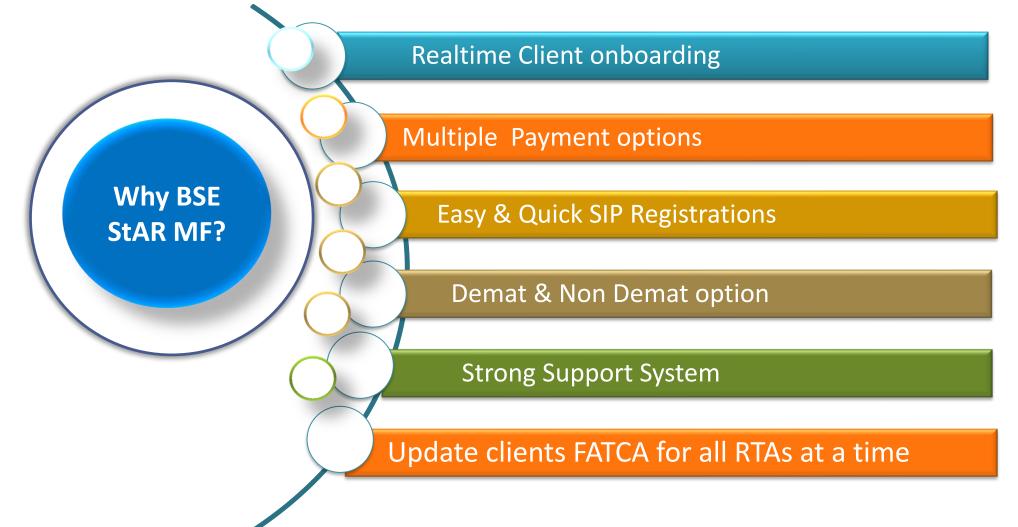
INTEREST RATE OPTIONS



- **BSE has launched India's first exchange traded interest rate options in August 2019.** Interest rate options provide for an efficient tool for managing interest rate risk and exposure through hedging. With a wide array of instruments being made available, Investors can hedge their risk across the yield curve. Apart from hedging, interest rate options can also be used for trading with various strategies.
- Eight-in-the-money, eight-out-of-the-money and one near-the-money call and put options are available for each underlying. The contracts currently available for trading are based on the underlying government of India securities as follows:
- ➢ 726GS2029
- ➢ 768GS2023
- ➢ 727GS2026
- ➢ 717GS2028
- ➢ 668GS2031
- ➢ 795GS2032
- ➤ 757GS2033
- ➢ 645GS2029
- > 579GS2030

WHY BSE STAR MF?

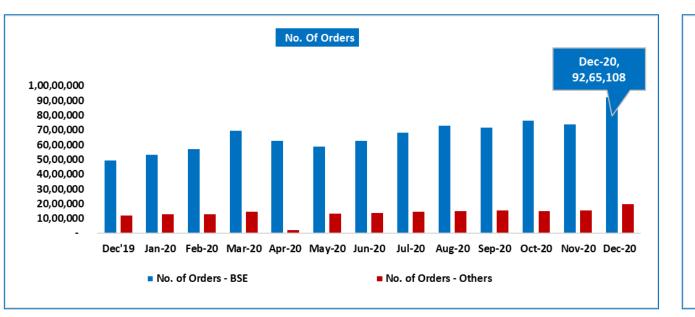


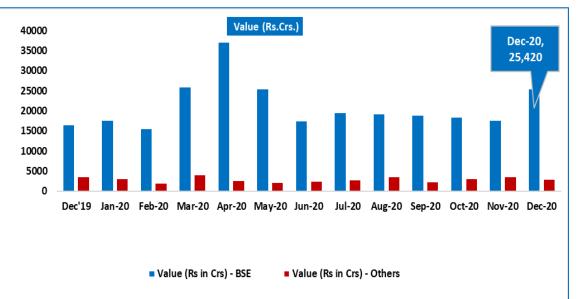


BSE - INTERNAL

STAR MF-INDIA'S LARGEST ONLINE MF DISTRIBUTION PLATFORM







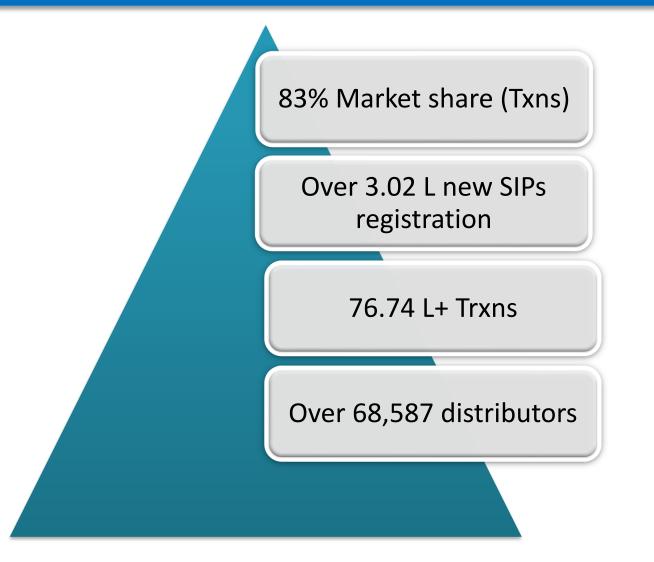


For Registration Process, refer : http://ir.bseindia.com/mfdforms/members/LoginMF.aspx?expandable=o

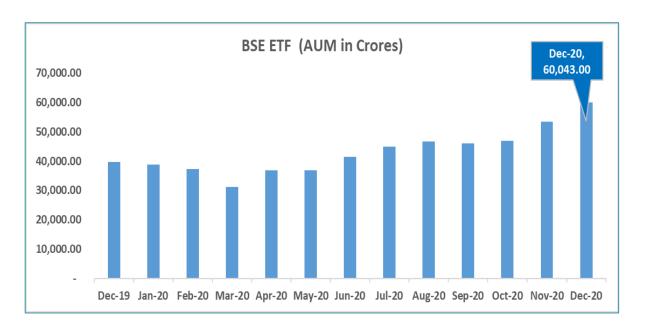
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BSE STAR MF PLATFORM – AT A GLANCE!





ETF





- 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
- Average Daily Trading volume and turnover of ETF's at BSE has grown by 47% and 20% between 2014 to 2020
- As of December 2020, S&P BSE based ETF's asset base has reached Rs. 60,043 crores, of which ETF based on S&P BSE Sensex Index accounts for 89% i.e., Rs. 53,671 crores. (Source : AMFI)



DATA BUSINESS PRODUCTS



- 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 Announcement
- Financial Results
- Corporate
 - Data

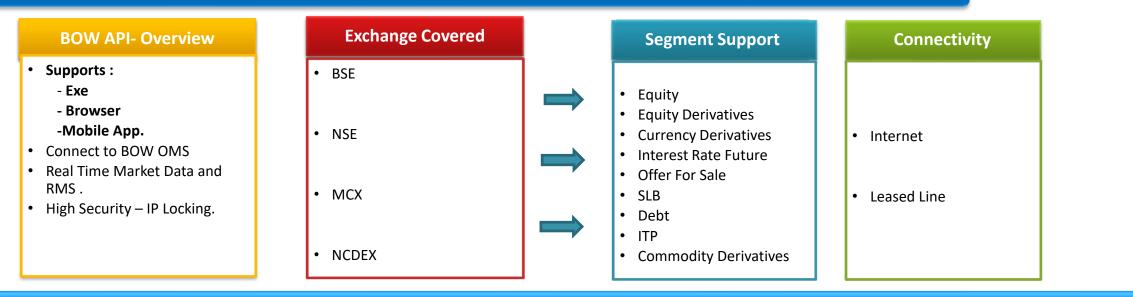
Market Data

- Shareholding Pattern
- Corporate Action through SWIFT
 - Quotation files
 - Annual report
- End of day or Historical
 Daily Bulletin
 Sector Classifi
 - Sector Classification
 - Trade and Order book data



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
 - Risk Management through BOW Admin interface
 - Payment Gateway interface
 - Report Management

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BOLT

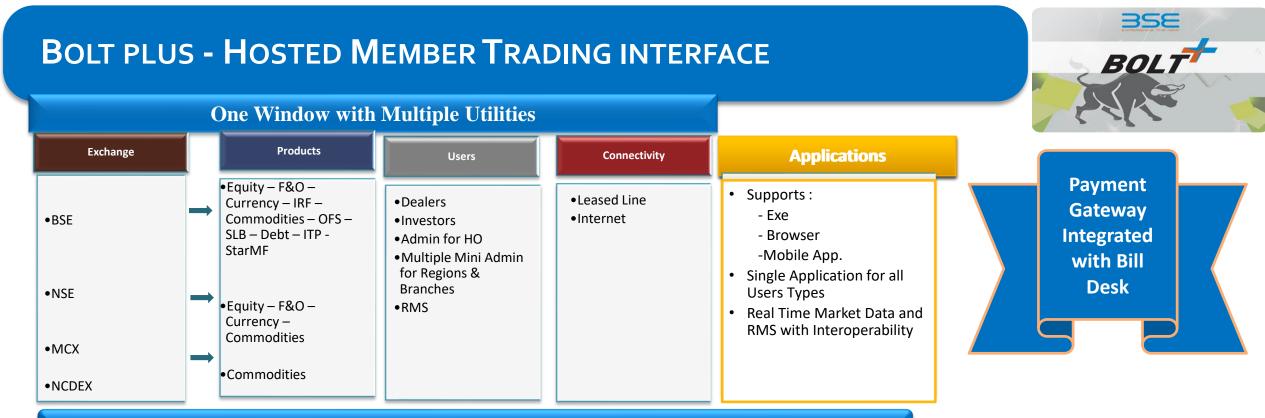
MULTI EXCHANGE RISK MANAGEMENT SYSTEM – MERMS-ICCL



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

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

- 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.



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

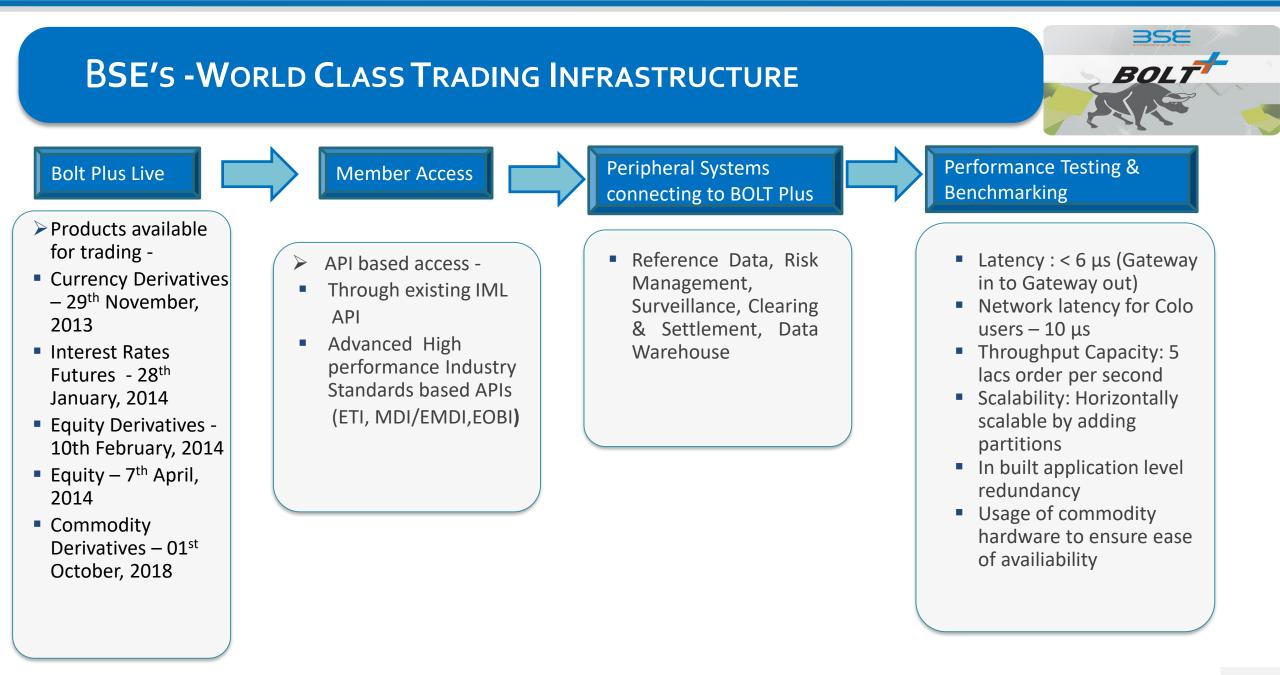
- No IT infrastructure cost to the Member.
- Completely Hosted Application.
- Single Application for all Users Types .
- Trade commencement in one day.
- Real time support services.

Bolt+on web (BOW)- Free of cost for all Members

BEST(BSE ELECTRONIC SMART TRADER)- FEATURES 36 Hosted Trading and Risk Management Application **One Window with Multiple Utilities Exchanges/Segments** Users Features Admin •BSE (Equity, Equity Derivatives, Currency Derivatives, •Real time Risk Management Commodity Derivatives, StAR MF) • Multiple Parallel Admin •User Management •NSE (Equity, Equity Derivatives, Currency Derivatives, Branch Admin Multi Exchange/Segment trading Commodity Derivatives) •Dealer •MCX •Offline Client •Online Client **Roles & Functionalities** Users Admin Dealers **Online Client User Management Risk Management** Multiple Exchange & Segments for Common login for EXE, WEB & Mobile User Creation **Comprehensive Risk Rules** Trading platform Creation & assigning roles Real time Margin & MTM calculation Real time broadcast Real time broadcast Manage Users Managing different Risk levels Basket Order, Spread Order, After Payment gateway **Reporting & MIS** Multiple Trading Products Market Order, Cover Order Order & Trade reports Send Message Admin Square off functionality Historical reports MIS Auto Square off

- Online IV's for Option Traders
- Payment Gateway

BEST- Free of cost for all Members



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



<u>for;</u>

- 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
- 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 µsec): Exchange Response Time | 6 | 500 # |
| Roundtrip Latency (in µsec): Colo Network* | 10 | 500 # |
| Roundtrip Latency (in μsec): 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 |
| Cost to member for 10G port connection | INR.0.50 Lakhs AMC (1 Primary & 1 Secondary) | 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 Market Data since November 2010. Free EOBI feed since June 2015. | Free Tick By Tick Data since July 2018. |

*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 Colocation 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.

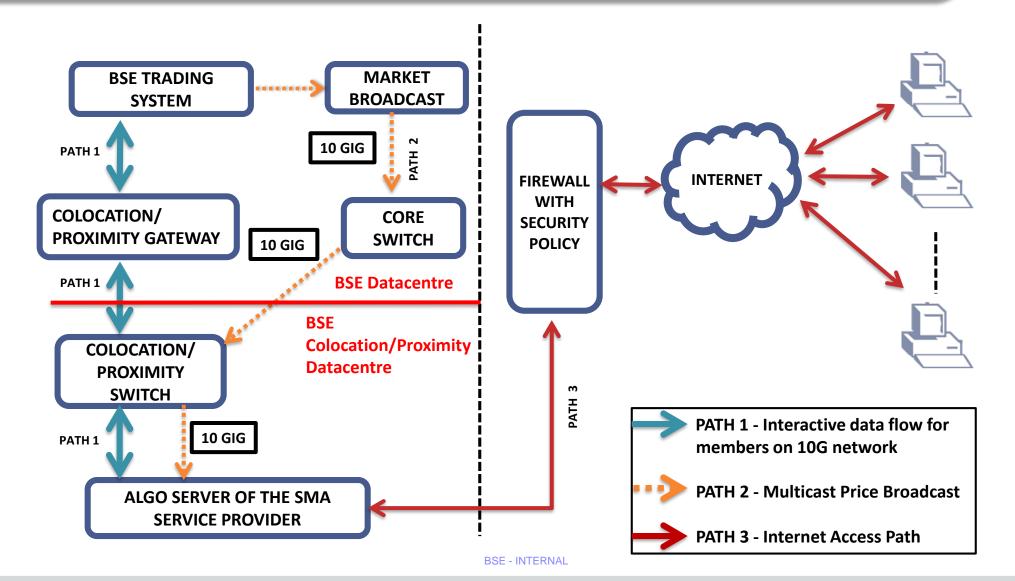
For Vendors

- 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 | 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 |
| LIPA 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 |
|--------------------------|-----------------------------|------------------|
| 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 |
| O#BIR | Currency USD/INR | Futures contract |
| O#BEU | Currency EUR/INR | Futures contract |
| O#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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