

A Review

Indian Securities Market

Volume XIII 2010

This publication reviews
the developments in the
securities market in India

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NATIONAL STOCK EXCHANGE OF INDIA LIMITED

Indian Securities Market

A Review

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Exchange Plaza, Bandra Kurla Complex
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Corporate Communication
National Stock Exchange of India Limited
Exchange Plaza, Bandra Kurla Complex
Bandra (East), Mumbai 400 051 INDIA

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A B B R E V I A T I O N S

ADB	Asian Development Bank
ADRs	American Depository Receipts
AIFIs	All India Financial Institutions
ALBM	Automated Lending and Borrowing Mechanism
ALBRS	Automated Lending and Borrowing under Rolling Settlement
AMC	Asset Management Company
AMFI	Association of Mutual Funds in India
ASC	Accounting Standards Committee
ASE	Ahmedabad Stock Exchange
ATM	At-The-Money
ATs	Alternative Trading system
B2B	Business-to-Business
BIFR	Board for Industrial and Financial Reconstruction
BIS	Bank for International Settlement
BLESS	Borrowing and Lending Securities Scheme
BMC	Base Minimum Capital
BSE	The Stock Exchange, Mumbai
CBDT	Central Board of Direct Taxes
CC	Clearing Corporation
CDs	Certificate of Deposits
C&D	Corporatisation and Demutualisation
CH	Clearing House
CCIL	Clearing Corporation of India Limited
CDSL	Central Depository Services (India) Limited
CFM	Carry Forward Margin
CFRS	Carry Forward under Rolling Settlement
CIMC	Collective Investment Management Company
CISs	Collective Investment Schemes
CIVs	Collective Investment Vehicles
CLA	Central Listing Authority
CLF	Collateralised Lending Facility
CM	Clearing Member
CM Segment	Capital Market Segment of NSE
CMIE	Centre for Monitoring Indian Economy



COSI	Committee on Settlement Issues
COTI	Committee of Trade Issues
CP	Custodial Participant
CPs	Commercial Papers
CPSS	Committee on Payment and Settlement Issues
CRAs	Credit Rating Agencies
CRISIL	The Credit Rating Information Services of India Limited
CRR	Cash Reserve Ratio
CSD	Collateral Security Deposit
CSE	Calcutta Stock Exchange
DCA	Department of Company Affairs
DDBs	Deep Discount Bonds
DEA	Department of Economic Affairs
DFIs	Development Financial Institutions
DIP	Disclosure and Investor Protection
DNS	Deferred Net Settlement
DPs	Depository Participants
DRR	Debenture Redemption Reserve
DSCE	Debt Securities Convertible into Equity
DvP	Delivery versus Payment
ECBs	External Commercial Bodies
ECNS	Electronic communication Networks
EDGAR	Electronic Data Gathering, Analysis and Retrieval
EDIFAR	Electronic Data Information Filing and Retrieval
EFT	Electronic Fund Transfer
ELN	Equity Linked Notes
ELSS	Equity Linked Saving Schemes
EPS	Earning Per Share
ETFs	Exchange Traded Funds
FIA	Futures Industry Association
F&O	Futures and Options
FCCBs	Foreign Currency Convertible Bonds
FCDs	Fully Convertible Debentures
FDI	Foreign Direct Investment
FDRs	Foreign Deposit Receipts
FDs	Fixed Deposits
FEMA	Foreign Exchange Management Act
FIBV	International World Federation of Stock Exchanges

FII	Foreign Institutional Investment
FIIIs	Foreign Institutional Investors
FIMMDA	Fixed Income Money Markets and Derivatives Association
FIs	Financial Institutions
FMCG	Fast Moving Consumer Goods
FMPs	Fixed Maturity Plans
FoFs	Fund of Funds
FPOs	Further Public Offerings
FRAs	Forward Rate Agreements
FSAP	Financial Sector Assessment Program
FVCIs	Foreign Venture Capital Investors
GDP	Gross Domestic Product
GDRs	Global Deposit Receipts
GDRs	Gross Domestic Savings
GNP	Gross National Product
GOI	Government of India
G-Sec	Government Securities
GSO	Green Shoe Option
i-BEX	ICICI Securities Bond Index
ICAI	Institute of Chartered Accountants of India
ICICI	Industrial Credit and Investment Corporation of India Limited.
ICSE	Inter-Connected Stock Exchange of India Limited
IBRD	International Bank for Reconstruction and Development
IDBI	Industrial Development Bank of India
IDRs	Indian Depository Receipts
IEPF	Investors Education and Protection Fund
IFC	International Finance Corporation
IFSD	Interest Free Security Deposit
IIM	Indian Institute of Management
IISL	India Index Services and Products Limited
IMF	International Monetary Fund
IOSCO	International Organisation of Securities Commission
IDFC	Infrastructure Development Finance Corporation
IPF	Investor Protection Fund
IPOs	Initial Public Offers
IRDA	Insurance Regulatory and Development Authority
IRS	Interest Rate Swap
ISIN	International Securities Identification Number



ISSA	International Securities Services Association
IT	Information Technology
ITM	In-The-Money
JPC	Joint Parliamentary Committee
LAF	Liquidity Adjustment Facility
LIC	Life Insurance Corporation of India Limited
MCFS	Modified Carry Forward System
MFs	Mutual Funds
MFSS	Mutual Fund Service System
MIBID	Mumbai Inter-bank Bid Rate
MIBOR	Mumbai Inter-bank Offer Rate
MMMF	Money Market Mutual Fund
MNCs	Multi National Companies
MOU	Memorandum of Understanding
MoF	Ministry of Finance
MTM	Mark-To-Market
NASDAQ	National Association of Securities Dealers Automated Quotation System
NAV	Net Asset Value
NBFCs	Non-Banking Financial Companies
NCAER	National Council for Applied Economic Research
NCDs	Non-convertible Debentures
NCDS	Non-convertible Debt Securities
NCFM	NSE's Certification in Financial Markets
NDS	Negotiated Dealing System
NEAT	National Exchange for Automated Trading
NGOs	Non-Government Organisations
NIBIS	NSE's Internet-based Information System
NIC	National Informatics Centre
NPAs	Non Performing Assets
NRIs	Non Resident Indians
NSCCL	National Securities Clearing Corporation of India Limited
NSDL	National Securities Depository Limited
NSE	National Stock Exchange of India Limited
OCBs	Overseas Corporate Bodies
OECLOB	Open Electronic Consolidated Limit Order Book
OLTL	On-line Trade Loading
OPMS	On-line Position Monitoring System
ORS	Order Routing System

OSL	Open Strata Link
OTC	Over the Counter
OTCEI	Over the Counter Exchange of India Limited
OTM	Out-of the-Money
P/E	Price Earning Ratio
PAN	Permanent Account Number
PCDs	Partly Convertible Debentures
PCM	Professional Clearing Member
PDAI	Primary Dealers Association of India
PDO	Public Debt Office
PDs	Primary Dealers
PFI	Public Finance Institution
PFRDA	Pension Fund Redulatory Development Authority
PRI	Principal Return Index
PRISM	Parallel Risk Management System
PSUs	Public Sector Undertakings
PV	Present Value
QIBs	Qualified Institutional Buyers
RBI	Reserve Bank of India
ROCs	Registrar of Companies
RTGS	Real Time Gross Settlement
SA	Stabilising Agent
SAT	Securities Appellate Tribunal
SBTS	Screen Based Trading System
SCMRD	Society for Capital Market Research and Development
S&P	Standard and Poor's
SAT	Securities Appellate Tribunal
SC(R)A	Securities Contracts (Regulation) Act, 1956
SC(R)R	Securities Contracts (Regulation) Rules, 1957
SCBs	Scheduled Commercial Banks
SDs	Satellite Dealers
SEBI	Securities and Exchange Board of India
SEC	Securities Exchange Commission
SGF	Settlement Guarantee Fund
SGL	Subsidiary General Ledger
SGX-DT	The Singapore Exchange Derivatives Trading Limited
SIPC	Securities Investor Protection Corporation
SLB	Securities Lending and Borrowing



SLR	Statutory Liquidity Ratio
SPAN	Standard Portfolio Analysis of Risks
SDL	State Development Loans
SPICE	Sensex Prudential ICICI Exchange Traded Fund
SPV	Special Purpose Vehicle
SROs	Self Regulatory Organisations
SSS	Securities Settlement System
STA	Share Transfer Agent
STP	Straight Through Processing
STRIPS	Separate Trading of Registered Interest and Principal of Securities
SUS 99	Special Unit Scheme 99
T-Bills	Treasury Bills
TDS	Tax Deducted at Source
TM	Trading Member
TRI	Total Return Index
UIN	Unique Identification Number
UTI	Unit Trust of India
VaR	Value at Risk
VCFs	Venture Capital Funds
VCUs	Venture Capital Undertakings
VSAT	Very Small Aperture Terminal
WAN	Wide Area Network
WAP	Wireless Application Protocol
WDM	Wholesale Debt Market Segment of NSE
YTM	Yield to Maturity
ZCYC	Zero Coupon Yield Curve

Securities Market in India: An Overview

Introduction

The last decade (2000-2010) has been the most eventful period for the Indian securities market during which it took major strides to carve a niche for itself in the global securities markets. The major developments which hastened this incredible journey can broadly be observed under three categories, viz. improved market microstructure, introduction of new products and progressive changes in the regulatory framework.

This chapter is split into two sections. Section 1 focuses on the broader developments in the securities markets during 2000-2010. Section 2 discusses the structure and the developments of the Indian securities markets during 2009-10.

Section-1: Issues and Developments in the past decade (2000-2010)

Improved Market Microstructure

To reduce transaction time and bolster liquidity, various reforms were undertaken during this decade (2000-2010), such as introduction of automated trading system, reduction in the settlement cycle, dematerialization etc. Further, the stock exchanges were allowed to provide a separate trading window for block deals in November 2005 to facilitate execution of large trades without impacting the market. With the advent of new technology, greater sophistication was brought to the Indian securities markets by introducing world class facilities like Direct Market Access (DMA), algorithmic trading, smart order routing system and co-location service.

The facility of DMA was introduced for institutional investors in the year 2008 which provided them direct access to the exchange trading system through the broker's infrastructure without manual intervention by the broker. Currently, around 25-30% of FII trades are routed through DMA and it is expected to increase to 40-45% by end-2011¹. DMA ensured direct control over orders by institutional investors, faster order placement and execution, more arbitrage opportunities, improved liquidity, greater transparency and lower impact cost for large order. Algorithmic trading refers to orders that are automatically placed in the market by software programmes, built on certain mathematical models. Smart Order Routing enables the broker's trading engines to systematically choose the execution destination from out of trading platforms of different stock exchanges based on factors such as price, costs, speed, likelihood of execution and settlement, size, nature or any other consideration relevant to the execution of the order. Finally, global exchanges introduced co-location services to support high frequency trading using Algorithmic trading and DMA. The details of the co-location facility at NSE have been discussed later in the chapter.

On the clearing and settlement front, in July 2001, the Indian securities market made a paradigm shift from the century old account period settlement to a T+5 rolling settlement. Keeping abreast with the dynamics of the securities market and to integrate with the world markets, in April 2002, the Indian capital markets joined the league of developed markets in the world by the introduction of the T+3 rolling settlement cycle and further to T+2 in April 2003. Dematerialisation which was introduced in 1998 achieved 100% demat trading at NSE in June 2002.

¹ Estimates of Celent



In the primary markets, SEBI made IPO grading compulsory for companies coming out with the IPOs of equity shares in May 2007. An IPO Grade provides an additional input to investors in arriving at an investment decision based on independent and objective analysis. In addition, SEBI introduced the process of Application Supported by Blocked Amount (ASBA) which ensured that the application money does not move out of the account of applicant but is only blocked and debited to the extent of allotment. ASBA helped to overcome the earlier refund related concerns upon allotment and enabled investors to earn interest on the blocked amount.

Besides these improvements in market microstructure, introduction of a variety of new products provided the much needed dynamism and impetus to the growth of the Indian securities market.

Introduction of New Products

In the last decade, various new products were introduced in different market segments of the securities markets. Among them, the equity derivative products met with tremendous success, making India stand out in the global securities markets arena. India began trading derivatives with underlying such as indices and individual stocks and later extended to other asset classes like interest rate and currency. Currency futures on USD–INR were introduced for trading and subsequently the Indian rupee was allowed to trade against other currencies such as euro, pound sterling and the Japanese yen. To enhance retail participation and market liquidity in equity derivative segment, mini derivative contracts on Nifty and Sensex were introduced in 2008 having a minimum contract size of ₹ 1 lakh. SEBI also allowed trading on option contracts on Nifty and Sensex with tenure of up to five years to provide liquidity at the longer end of the market. In addition to derivatives products, a host of other products such as mutual funds, index funds, index and gold based ETFs and ETFs on international indices² were introduced on the Indian stock exchanges during the last decade. Appropriate and timely changes were made to the regulatory framework to facilitate the introduction of these new products and their success in due course.

Regulatory Framework

The regulatory framework has been strengthened. The corporation and demutualization of stock exchanges was mandated through amendments in SCRA 1956 in the year 2004³. In the same year, amendment to SCRA was also made to provide for clearing and settlement by a clearing corporation. It provided that an exchange with the approval of SEBI could transfer the duties and functions of a clearing house to a recognized clearing corporation.

In addition to the introduction of new products, an endeavour was made to strengthen the existing products which had not gained momentum. Notable among them were the corporate bonds and interest rate futures. Simplification of corporate bond issuance norms and introduction of repos in corporate bonds were some of the measures taken to resurrect this market segments.

Indian exchanges are entering into cross border agreements with overseas exchanges for introducing their products on their trading platform. By providing an opportunity to the investors to diversify their portfolios internationally, this could add another dimension to the Indian securities markets. For example: in March 2010, NSE and Chicago Mercantile Exchange (CME) had announced cross-listing arrangements. Under the cross-listing arrangements, the S&P CNX Nifty Index (Nifty 50), the leading Indian benchmark index representing 22 sectors of the Indian economy, has been made available to CME for the creation and listing of U.S. dollar denominated Nifty futures contracts for trading on CME. Keeping in view the increased integration of global markets, the market regulator also allowed Indian stock exchanges to extend their trade timings from 9:55 a.m.-3:30 p.m. to 9:00 a.m.-5:00 p.m.

The securities market is endeavouring to make equity finance available for small and medium enterprises. In May 2010, SEBI has permitted setting up of a stock exchange or trading platform for SMEs by stock exchanges having nationwide trading terminals.

In addition to this, various initiatives have been taken by SEBI to strengthen the corporate governance among the listed companies. Clause 49 has been amended from time to time to improve disclosures, strengthen the responsibilities

² Exchange Traded Fund on the International index – Hangseng was launched in 2008.

³ NSE, MCX-SX and OTCEI were corporatised from the beginning.

of audit committees and include provision for whistle blower policy and restrict the term of independent directors etc. Clause 35 of the Listing Agreement has also been amended to provide for disclosure of details of shares held by promoters and promoter group entities in listed companies which are pledged or otherwise encumbered. This was done with a view to ensure that while deciding to invest in the company, the investors may factor in information about the pledged or otherwise encumbered shares held by promoter/promoter group in the company, as the extent of pledge/encumbrance may have a significant impact on the price of the shares. In a major move aimed at bringing in more accountability and enhancing investor participation, the government has made it mandatory for all listed companies, other than listed public sector enterprises (PSEs), to raise public shareholding to 25%; listed PSEs must maintain public shareholding of at least 10%. Any listed company which falls short of these prescribed limits on the commencement of the Securities Contracts (Regulation) (Amendment) Rules, 2010, shall increase its public shareholding to the stipulated level within a period of three years. Companies coming out with initial public offers to get listed, must adhere to the above public shareholding limits at the time of their listing. This move would reduce price manipulation by creating large and diversified public shareholdings.

In a recent initiative on the regulatory front, a Financial Stability and Development Council (FSDC) has been created to strengthen and institutionalize the mechanism for maintaining financial stability and monitoring macro prudential supervision of the economy.

Assessment of Performance of Indian Securities Market during 2000-2010

The initiatives discussed above have not only transformed the landscape of the securities market, but also contributed to its growth. This can be seen in the snapshot of the decadal performance of securities market shown in Chart 1-1. It can be seen that during the decade, there has been a significant rise in the market capitalization ratio, turnover ratio and traded value ratio. The turnover in the cash market has nearly doubled over the decade while the market capitalization has become eight times the levels that existed in 2000. The turnover in the Indian derivatives market has increased from US \$ 0.086 trillion in 2000-01 to US \$ 3.92 trillion in 2009-10 and has surpassed the cash market turnover in India. The resource mobilization in the primary market has increased dramatically, rising six fold between 2000 and 2010. Similarly, the resource mobilization through euro issues has increased significantly over the years. Table-1-1 shows the performance in the capital market in terms of certain key indicators.

Table 1-1: Key performance indicators of securities market (2000-2010)

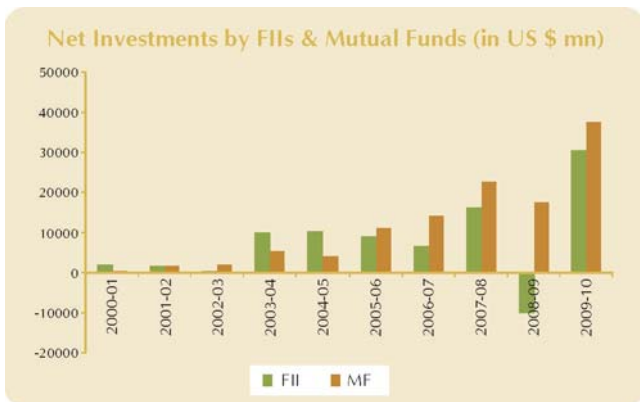
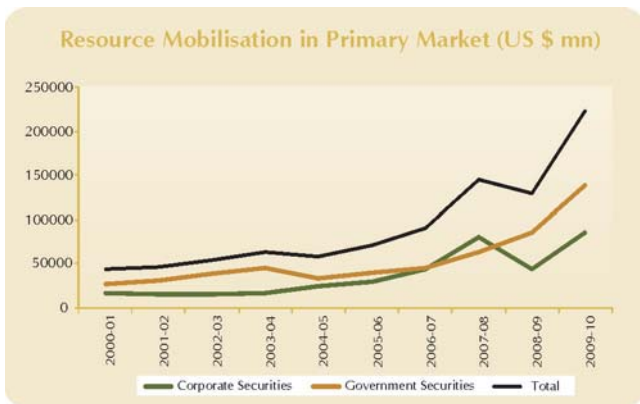
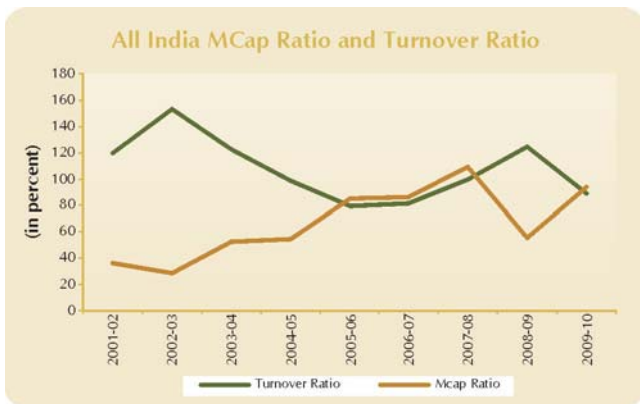
Parameters	Compound Annual Growth Rate (2000-01 to 2009-10)
Resource Mobilisation in Primary Markets	17.15%
Resource mobilization through Euro Issues	43.89%
All-India Market Capitalisation	23.15%
All-India Equity Market Turnover*	19.94%
All-India Equity derivatives turnover	132.19%
Assets under Management of Mutual Funds	18.99%
Net Investments by Foreign Institutional Investors	30.53%
Net Investments by Mutual Funds	54.07%
Returns on Nifty 50	13.13%

* CAGR calculated from 2001-02 to 2009-10

The performance of the Indian capital market has been impressive with high returns and a high level of investment from both domestic and foreign investors. On the other hand, India's debt market, particularly the corporate bond market is still underdeveloped. Of late, efforts have been made to bring regulatory changes to develop the corporate bond market. However, sustained effort and long-term commitment are needed to realize the true potential of this segment. The growth of India's derivatives market has been significant but needs to develop further in terms of products and investor base.



Chart 1-1: Snapshot of Performance of Indian Securities Market during 2000-2010



Section-2: Structure and Developments of the Indian Securities Markets during 2009-10

Key strengths of the Indian securities markets

The securities markets in India have made enormous progress in developing sophisticated instruments and modern market mechanisms. The key strengths of the Indian capital market include a fully automated trading system on all stock exchanges, a wide range of products, an integrated platform for trading in both cash and derivatives, and a nationwide network of trading through over 4,618⁴ corporate brokers.

A significant feature of the Indian securities market is the quality of regulation. The market regulator, Securities and Exchange Board of India (SEBI) is an independent and effective regulator. It has put in place sound regulations in respect of intermediaries, trading mechanism, settlement cycles, risk management, derivative trading and takeover of companies. There is a well designed disclosure based regulatory system. Information technology is extensively used in the securities market. The stock exchanges in India have the most advanced and scientific risk management systems. The growing number of market participants, the growth in volume of securities transactions, the reduction in transaction costs, the significant improvements in efficiency, transparency and safety, and the level of compliance with international standards have earned for the Indian securities market a new respect in the world.

Market Segments

The securities market has two interdependent and inseparable segments, the new issues (primary) market and the stock (secondary) market. The primary market provides the channel for creation and sale of new securities, while the secondary market deals in securities previously issued. The securities issued in the primary market are issued by public limited companies or by government undertakings. The resources in this kind of market are mobilized either through the public issue or through private placement route. It is a public issue if anyone can subscribe it, whereas if the issue is made available to a selected group of persons it is termed as private placement. There are two major types of issuers of securities, the corporate entities who issue mainly debt and equity instruments and the government (central as well as state) who issue debt securities (dated securities and treasury bills).

The secondary market enables participants who hold securities to adjust their holdings in response to changes in their assessment of risks and returns. Once the new securities are issued in the primary market they are traded in the stock (secondary) market. The secondary market operates through two mediums, namely, the over-the-counter (OTC) market and the exchange-traded market. OTC markets are informal markets where trades are negotiated. Most of the trades in the government securities are in the OTC market. All the spot trades where securities are traded for immediate delivery and payment take place in the OTC market. The other option is to trade using the infrastructure provided by the stock exchanges. The exchanges in India follow a systematic settlement period. All the trades taking place over a trading day (day = T) are settled together after a certain time (T + 2 day). The trades executed on exchanges are cleared and settled by a clearing corporation. The clearing corporation acts as a counterparty and guarantees settlement. A variant of the secondary market is the forward market, where securities are traded for future delivery and payment. A variant of the forward market is Futures and Options market. Currently only two exchanges viz., National Stock Exchange of India Ltd. (NSE) and Bombay Stock Exchange (BSE) provide trading in the equity futures & options in India.

Market Participants

In every economic system, some units, individuals or institutions, are surplus units who are called savers, while others are deficit units, called spenders. Households are surplus units and corporate and Government are deficit units. Through the platform of securities markets, the savings units place their surplus funds in financial claims or securities at the disposal of the spending community and in turn get benefits like interest, dividend, capital appreciation, bonus etc. These investors and issuers of financial securities constitute two important elements of the securities markets. The third critical element of markets is the intermediaries who act as conduits between the investors and issuers. Regulatory

⁴ As on September 30, 2010. Data is sourced from SEBI Bulletin, October 2010.



bodies, which regulate the functioning of the securities markets, constitute another significant element of securities markets. The process of mobilisation of resources is carried out under the supervision and overview of the regulators. The regulators develop fair market practices and regulate the conduct of issuers of securities and the intermediaries. They are also in charge of protecting the interests of the investors. The regulator ensures a high service standard from the intermediaries and supply of quality securities and non-manipulated demand for them in the market. Table 1-2 presents an overview of market participants in the Indian securities market.

Table 1-2: Market Participants in Securities Market

Market Participants	2009	2010	As on Sep 30, 2010
Securities Appellate Tribunal (SAT)	1	1	1
Regulators*	4	4	4
Depositories	2	2	2
Stock Exchanges			
With Equities Trading	20	20	20
With Debt Market Segment	2	2	2
With Derivative Trading	2	2	2
With Currency Derivatives	3	3	4
Brokers (Cash Segment)	9,628	9,772	10,018
Corporate Brokers (Cash Segment)	4,308	4,424	4,618
Brokers (Equity Derivatives)	1,587	1,705	1,902
Brokers (Currency Derivatives)	1,154	1,459	1,811
Sub-brokers	60,947	75,577	81,713
FIs	1626	1713	1726
Portfolio Managers	232	243	250
Custodians	16	17	17
Registrars to an issue & Share Transfer Agents	71	74	68
Primary Dealers	18	20	20
Merchant Bankers	134	164	184
Bankers to an Issue	51	48	52
Debenture Trustees	30	30	27
Underwriters	19	5	6
Venture Capital Funds	132	158	168
Foreign Venture Capital Investors	129	143	150
Mutual Funds	44	47	48
Collective Investment Schemes	1	1	1

Source: SEBI, RBI

* DCA, DEA, RBI & SEBI.

Brokers of cash segment include brokers of Mangalore SE, HSE, Magadh and SKSE.

The four important elements of securities markets are the investors, the issuers, the intermediaries and regulators.

Investors

An investor is the backbone of the capital market of any economy as he is the one lending his surplus resources for funding the setting up or expansion of companies, in return for financial gain.

Households' investment pattern

According to the preliminary estimates by CSO, net financial savings of the household sector in 2008-09 was 10.9% of GDP at current market prices which was lower than the estimates for 2007-08 at 11.5%. Decline in the household

investments in shares and debentures were the main factors responsible for the lower household saving in 2008-09. However, the household savings in instruments like currency, deposits, contractual savings (pension and provident funds) and investment in government securities remained broadly stable during the year. The household sector accounted for 89.5% of the Gross Domestic Savings in Fixed Income investment instruments during 2008-09, as against 78.2% in 2007-08 (Table 1-3). The investment of households in securities was -1.9% compared with 10.1% in 2007-08. Chart 1-2 shows Indian household investment in different investment avenues since 1990-91 till 2008-09. It can be observed that the household investments in government securities and mutual funds fell in the negative territory while investments in shares and debentures of private corporates, banking and PSU Bonds was at 4.4% at par with investments last year.

Table 1-3: Savings of Household Sector in Financial Assets

(In percent)

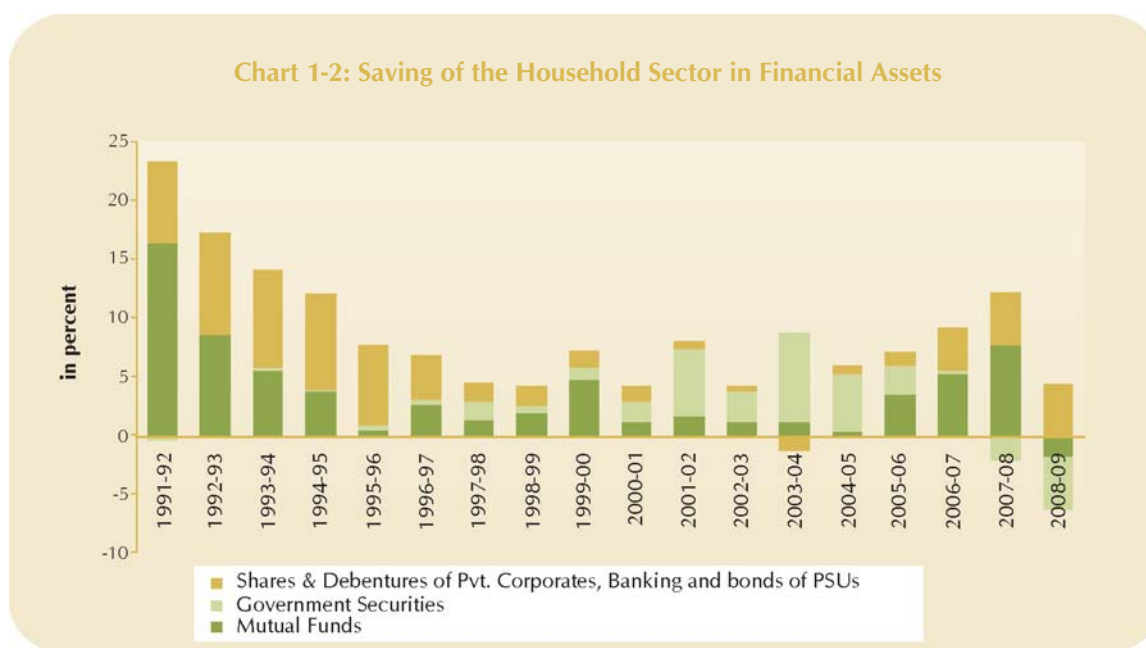
Financial Assets	2007-08P	2008-09
Currency	11.4	12.5
Fixed income investments	78.2	89.5
Deposits	52.2	58.5
Insurance/Provident & Pension Funds	27.9	29.6
Small Savings	-1.9	1.4
Securities Market	10.1	-1.9
Mutual Funds	7.7	-1.8
Government Securities	-2.1	-4.5
Other Securities	4.5	4.4
Total	100.0	100.0

Source: RBI Annual Report 2008-09

P: Provisional Figures

Preliminary Estimates

Note: Here other securities include shares and debentures of private corporate business, banking and bonds of PSUs Mutual funds include units of UTI



Issuers

Primary markets

An aggregate of ₹ 10,075,102 million (US \$ 223,197 million) were raised by the government and corporate sector during 2009-10 as against ₹6,588,920 million (US \$ 129,321 million) in 2008-09, an increase of 52.91%. Private placement accounted for 93.07% of the domestic total resource mobilisation by the Corporate Sector. Resource mobilisation through euro issues escalated significantly by 233.48% to ₹159,670 million (US \$ 3,537 million) in 2009-10. Details can be seen in Chapter 2, table 2-1.

Intermediaries

The term “market intermediary” refers to those who are in the business of managing individual portfolios, executing orders, dealing in or distributing securities and providing information relevant to the trading of securities. The market mediators play an important role in the stock exchanges; they put together the demands of the buyers with the offers of the security sellers. A large variety and number of intermediaries provide intermediation services in the Indian securities markets. The market intermediary has a close relationship with the investor with whose protection the regulator is primarily tasked. As a consequence a large portion of the regulation of a securities industry is directed towards the market intermediary. Regulations address entry criteria, capital and prudential requirements, ongoing supervision and discipline of entrants, and the consequences of default and failure. One of the issue concerning brokers is the need to encourage them to corporatize. Currently, 46.10%⁵ of the brokers are corporates. Corporatisation of their business would help them compete with global players in capital markets at home and abroad. Corporatisation brings better standards of governance and better transparency hence increasing the confidence level of customers.

Regulators

The absence of conditions of perfect competition in the securities market makes the role of regulator extremely important. The regulator ensures that the market participants behave in a desired manner so that securities markets continue to be a major source of finance for corporate and government and the interest of investors are protected.

The responsibility for regulating the securities market is shared by Department of Economic Affairs (DEA), Ministry of Corporate Affairs (MCA), Reserve Bank of India (RBI) and SEBI. The orders of SEBI under the securities laws are appealable before a Securities Appellate Tribunal (SAT).

Most of the powers under the SCRA are exercisable by DEA while a few others by SEBI. The powers of the DEA under the SCRA are also concurrently exercised by SEBI. The powers in respect of the contracts for sale and purchase of securities, gold related securities, money market securities and securities derived from these securities and ready forward contracts in debt securities are exercised concurrently by RBI. The SEBI Act and the Depositories Act are mostly administered by SEBI. The rules under the securities laws are framed by government and regulations by SEBI. All these rules are administered by SEBI. The powers under the Companies Act relating to issue and transfer of securities and non-payment of dividend are administered by SEBI in case of listed companies and companies proposing to get their securities listed. The SROs ensure compliance with their own rules as well as with the rules relevant for them under the securities laws.

Regulatory Framework

At present, the five main Acts governing the securities markets are (a) the SEBI Act, 1992; (b) the Companies Act, 1956, which sets the code of conduct for the corporate sector in relation to issuance, allotment and transfer of securities, and disclosures to be made in public issues; (c) the Securities Contracts (Regulation) Act, 1956, which provides for regulation of transactions in securities through control over stock exchanges (d) the Depositories Act, 1996 which provides for electronic maintenance and transfer of ownership of demat shares and (e) Prevention of Money Laundering Act, 2002.

⁵ As of September 30, 2010. Data is sourced from SEBI Bulletin, October 2010.

Legislations

SEBI Act, 1992: The SEBI Act, 1992 was enacted to empower SEBI with statutory powers for (a) protecting the interests of investors in securities, (b) promoting the development of the securities market, and (c) regulating the securities market. Its regulatory jurisdiction extends over corporates in the issuance of capital and transfer of securities, in addition to all intermediaries and persons associated with securities market. It can conduct enquiries, audits and inspection of all concerned and adjudicate offences under the Act. It has powers to register and regulate all market intermediaries and also to penalise them in case of violations of the provisions of the Act, Rules and Regulations made thereunder. SEBI has full autonomy and authority to regulate and develop an orderly securities market.

Securities Contracts (Regulation) Act, 1956: It provides for direct and indirect control of virtually all aspects of securities trading and the running of stock exchanges and aims to prevent undesirable transactions in securities. It gives Central Government regulatory jurisdiction over (a) stock exchanges through a process of recognition and continued supervision, (b) contracts in securities, and (c) listing of securities on stock exchanges. As a condition of recognition, a stock exchange complies with conditions prescribed by Central Government. Organised trading activity in securities takes place on a specified recognised stock exchange. The stock exchanges determine their own listing regulations which have to conform to the minimum listing criteria set out in the Rules.

Depositories Act, 1996: The Depositories Act, 1996 provides for the establishment of depositories in securities with the objective of ensuring free transferability of securities with speed, accuracy and security by (a) making securities of public limited companies freely transferable subject to certain exceptions; (b) dematerialising the securities in the depository mode; and (c) providing for maintenance of ownership records in a book entry form. In order to streamline the settlement process, the Act envisages transfer of ownership of securities electronically by book entry without making the securities move from person to person. The Act has made the securities of all public limited companies freely transferable, restricting the company's right to use discretion in effecting the transfer of securities, and the transfer deed and other procedural requirements under the Companies Act have been dispensed with.

Companies Act, 1956: It deals with issue, allotment and transfer of securities and various aspects relating to company management. It provides for standard of disclosure in public issues of capital, particularly in the fields of company management and projects, information about other listed companies under the same management, and management perception of risk factors. It also regulates underwriting, the use of premium and discounts on issues, rights and bonus issues, payment of interest and dividends, supply of annual report and other information.

Prevention of Money Laundering Act, 2002: The primary objective of the Act is to prevent money-laundering and to provide for confiscation of property derived from or involved in money-laundering. The term money-laundering is defined as whoever acquires, owns, possess or transfers any proceeds of crime; or knowingly enters into any transaction which is related to proceeds of crime either directly or indirectly or conceals or aids in the concealment of the proceeds or gains of crime within India or outside India commits the offence of money-laundering. Besides providing punishment for the offence of money-laundering, the Act also provides other measures for prevention of Money Laundering. The Act also casts an obligation on the intermediaries, banking companies etc to furnish information, of such prescribed transactions to the Financial Intelligence Unit- India, to appoint a principal officer, to maintain certain records etc.

Rules and Regulations

The Government has framed rules under the SCRA, SEBI Act and the Depositories Act. SEBI has framed regulations under the SEBI Act and the Depositories Act for registration and regulation of all market intermediaries, and for prevention of unfair trade practices, insider trading, etc. Under these Acts, Government and SEBI issue notifications, guidelines, and circulars which need to be complied with by market participants. The SROs like stock exchanges have also laid down their rules and regulations.

Financial Stability & Development Council (FSDC)

With a view to strengthen and institutionalize the mechanism for maintaining financial stability and development, the Government set up an apex-level body—the FSDC. The Chairman of the Council is the Finance Minister of India and its



members include heads of the financial-sector regulatory institutions. Without prejudicing the autonomy of regulators, this Council will monitor macro prudential supervision of the economy, including the functioning of large financial conglomerates, and address inter-regulatory coordination issues. It will also focus on financial literacy and financial inclusion. The Council will have one Sub-Committee headed by the Governor, RBI.

The Secretariat of the said Council will be in the Department of Economic Affairs, Ministry of Finance. The notification constituting the FSDC was issued on December 30, 2010 and its first meeting was held on December 31, 2010.

Financial Sector Legislative Reforms Commission (FSLRC)

The Government in the budget 2010-11 announced the setting up of the FSLRC with a view to rewrite and clean up financial-sector laws to bring them in tune with the requirements of the sector. The remit of the Commission will be to review, simplify, and rewrite legislation focusing on broad principles. It will evolve a common set of principles for governance of financial-sector regulatory institutions. The Commission will also examine the case for greater convergence of regulation and will streamline the regulatory architecture of financial markets.

In addition to setting up new regulatory commission, the regulators have been proactively introducing various discussion papers, committee reports on some pressing issues in the Indian securities market. In the year 2010, an important report was the Bimal Jalan Committee Report (see Box 1-1).

Box 1-1: Bimal Jalan Committee Report

The Securities and Exchange Board of India constituted a Committee under the Chairmanship of Dr. Bimal Jalan (Former Governor, Reserve Bank of India) to examine issues arising from the ownership and governance of Market Infrastructure Institutions (MIIs). The Bimal Jalan committee set up by SEBI submitted its report on 'Review of ownership and governance of market infrastructure institutions' to SEBI on November 22, 2010. The committee has made recommendations on the issues related to MIIs (i.e. stock exchanges, clearing corporations and depositories). Some of these issues are pertaining to ownership and governance norms, measures of conflict resolution, listing of MIIs, net worth requirements, distribution of profits of MIIs, related businesses that can be entered into by MIIs and replacement of Manner of Increasing and Maintaining Public Shareholding in Recognised Stock Exchanges MIMPS Regulations.

Some of the recommendations given by the Committee are as follows:

- There is no need to permit a clearing corporation or depository to invest in other class of MIIs. Hence, clearing corporations and depositories may not be allowed to invest in other class of MIIs.
- At least 51% of the paid-up equity capital of the clearing corporation should be held by one or more recognized stock exchanges.
- Holding of stock exchanges in depositories may be restricted to a maximum of 24%.
- The MII being a public utility should endeavor to earn only reasonable profits at par with average earnings of the corporate sector in India. Therefore, it is recommended that a cap may be fixed on the maximum return that can be earned by MII on its net worth and can be distributed / allocated to the shareholders of MII out of the total returns earned by MII. Any return/profits above such maximum attributable amount would be transferred to IPF or SGF as the case may be and the same would not form part of shareholders funds net worth for the purposes of determining returns and book value of the shares.
- Net worth requirement for a Clearing Corporation may be fixed at ₹ 300 crores.
- Appointment of compliance officer shall be mandatory for stock exchanges and clearing corporations.
- The present net worth requirement of ₹100 crores for depositories may be retained. However, all other investments in related, unrelated / other business shall be excluded while computing the net worth.

Having discussed the various elements of securities market above, the following section presents an overview of 'Secondary Market' segment of the Indian Securities Market.

Secondary Market

Exchanges in the country offer screen based trading system. There were 9,772 trading members registered with SEBI as at end March 2010. The market capitalization has grown over the period indicating more companies using the trading platform of the stock exchange. The All-India market capitalization was around ₹ 61,704,205 million (US \$ 1,366,952 million) at the end of March 2010. The market capitalization ratio is defined as market capitalisation of stocks divided by GDP. It is used as a measure to denote the importance of equity markets relative to the GDP. It is of economic significance since market is positively correlated with the ability to mobilize capital and diversify risk. The All- India market capitalisation ratio increased to 94.20% in 2009-10 from 55.40% in 2008-09 (Table 1-4). At end of March 2010, NSE Market Capitalisation ratio fell to 76.28% during 2009-10 while BSE Market Capitalisation ratio was 78.26%.

Cash Market

During 2009-10, the trading volumes on the equity segment of Exchanges increased significantly by 43.26% y-o-y to ₹ 55,184,700 million (US \$ 1,222,523 million) from ₹38,520,970 million (US \$ 756,054 million) in 2008-09. (Table 1-4) The turnover during April 2010 – September 2010 in the equity markets was ₹ 23,547,240 crore US \$ 522,807 million.

Government Securities

The aggregate trading volumes in central and state government dated securities on SGL was ₹ 9,018,385 crore in 2009-10 as compared with ₹ 6,645,488 crore in 2008-09. (Table 1-4)

Derivatives Market

The number of instruments available in derivatives market has gone up over the years. To begin with, SEBI had only approved trading in index futures contracts based on Nifty 50 Index and BSE-30 (Sensex) Index. This was followed by approval for trading in options based on these indices and options on individual securities. In 2008, the currency futures on USD-INR were introduced for trading and in year 2010, currency options on USD-INR were allowed for trading.

The total exchange traded equity derivatives in Indian stock markets witnessed a turnover of ₹ 176,638,990 million (US \$ 39,21,825 million) during 2009-10 as against ₹ 110,227,501 million (US \$ 3,335,698million) during the preceding fiscal year. (Table 1-4)

Trading in currency futures increased from ₹ 1,622,724 million (US \$ 31,849 million) in 2008-09 to ₹ 17,826,080 million (US \$ 394,907 million) in 2009-10.

Index Movement

The Nifty 50 index movement has been responding to changes in the government's economic policies, the increase in FII inflows etc. During the year 2009-10, however, the Nifty 50 Index witnessed volatility⁶ of 1.88%. The point to point return of Nifty was 36.19% as of March 2010.

Institutional Investments

During the last decade, foreign institutional investment flows grew multifold and by the year 2009-10, the net investments by FIIs rose to ₹ 1,42,658 million (US \$ 30,253 million) while the net investments by mutual funds rose to ₹ 1,700,760 million (US \$ 37,677 million).

⁶ Volatility is calculated as standard deviation of the Natural Log of returns the index for the respective period



Table 1-4: Secondary Market - Selected Indicators

At the End of Financial Year	Capital Market Segment of Stock Exchanges			Non-Repo Government Sec Turnover			Equity Derivatives								
	No. of Brokers	Nifty 50	Sensex	Market Capitalisation (₹ mn)	Market Capitalisation (US \$ mn)	Market Capitalisation Ratio (%)	Turnover (₹ mn)	Turnover (US \$ mn)	Turnover Ratio (%)	On WDM Segment of NSE (₹ mn)	On SGL (₹ mn)	On WDM Segment of NSE (US \$ mn)	On SGL (US \$ mn)	Turnover (₹ mn)	Turnover (US \$ mn)
2001-02	9,687	1129.55	3469.35	7,492,480	153,534	36.36	8,958,290	183,569	119.56	9,269,955	12,119,658	189,958	248,354	1,038,480	21,280
2002-03	9,519	978.20	3048.72	6,319,212	133,036	28.49	9,689,230	203,981	153.33	10,305,497	13,923,834	216,958	293,133	4,423,333	93,123
2003-04	9,368	1771.90	5590.60	13,187,953	303,940	52.25	16,205,100	373,573	122.91	12,741,190	17,013,632	293,643	392,110	21,422,690	493,724
2004-05	9,128	2035.65	6492.82	17,021,360	388,212	54.41	16,669,023	381,005	98.14	8,493,250	12,608,667	194,131	288,198	25,641,269	586,086
2005-06	9,335	3402.55	11280.00	30,221,900	677,469	85.58	23,901,180	535,777	79.09	4,508,016	7,080,147	101,054	158,712	48,242,590	1,081,430
2006-07	9,443	3821.55	13,072.10	35,488,081	814,134	86.02	29,030,742	665,628	81.76	2,053,237	3,982,988	47,103	91,374	74,152,780	1,701,142
2007-08	9,487	4734.50	15644.44	51,497,010	1,288,392	109.26	51,308,320	1,283,667	99.63	2,604,088	5,003,047	65,151	125,170	133,327,869	3,335,698
2008-09	9,628	3020.95	9708.50	30,929,738	607,061	55.40	38,525,980	756,054	124.54	2,911,124	6,645,488	57,137	130,432	110,227,501	2,302,643
2009-10	9,772	5249.10	17527.80	61,704,205	1,366,952	94.20	55,184,700	1,222,523	89.43	4,217,022	9,018,385	93,421	199,787	176,638,990	3,921,825
April-Sep 2010	10,018	6030.00	20069.10	71,323,583	1,583,561	108.89	23,547,240	522,807	33.01	2,297,596	4,359,763	51,012	96,798	124,517,600	2,764,600

Source: CSO, SEBI, CMIE Prowess and NSE



Table 1-5: Sectorwise Shareholding Pattern at the end of September 2010 for companies listed at NSE

Sectors	PROMOTERS		PUBLIC						Shares held by Custodians and against which Depository Receipts have been issued (in percent)		
	Indian Promoters	Foreign Promoters	INSTITUTIONAL			NON-INSTITUTIONAL					
			Financial Institutions/Banks/Central Government/State Government/Insurance Companies	Foreign Institutional Investors	Mutual Funds	Venture Capital Funds including Foreign Venture Capital Funds	Any Other	Bodies Corporate		Individuals	Any other
Banks	43.73	0.96	9.00	19.24	3.62	0.00	0.20	5.08	13.37	1.34	3.47
Engineering	34.61	1.51	9.82	9.24	8.85	0.00	0.46	8.70	18.93	6.75	1.13
Finance	38.10	1.17	7.47	22.63	2.48	0.10	2.07	6.00	14.12	5.02	0.82
FMCG	19.77	9.58	13.49	15.73	7.93	0.07	0.01	5.29	12.11	15.61	0.40
Information Technology	41.79	5.78	2.83	10.47	1.91	0.15	0.14	7.36	18.91	5.18	5.48
Infrastructure	72.20	2.20	3.93	8.75	1.82	0.41	0.00	3.26	5.64	1.75	0.04
Manufacturing	42.98	9.57	5.77	8.99	2.89	0.01	0.27	7.28	15.20	2.53	4.52
Media & Entertainment	49.50	3.43	1.36	7.82	4.09	0.00	0.00	11.08	13.77	2.49	6.46
Petrochemicals	54.00	7.27	4.64	6.35	2.27	0.00	0.09	6.21	10.45	3.36	5.36
Pharmaceuticals	40.56	9.76	4.69	9.16	3.80	0.23	0.45	7.01	19.37	2.94	2.02
Services	46.48	13.75	5.66	8.82	3.38	0.47	0.00	7.01	10.53	3.82	0.08
Telecommunication	52.90	7.72	5.26	8.73	1.63	0.00	0.00	4.01	9.21	9.66	0.89
Miscellaneous	49.86	3.98	1.84	10.35	2.25	0.09	0.02	8.40	15.33	6.97	0.91
Number of Shares	137,255,013,027	17,000,404,429	15,178,175,483	28,380,058,503	7,863,054,282	398,584,441	589,634,046	15,950,019,405	32,697,151,419	10,868,054,516	7,010,041,637
% to Total Number of Shares	50.24	6.22	5.56	10.39	2.88	0.15	0.22	5.84	11.97	3.98	2.57

Source: NSE



Shareholding Pattern

In the interest of transparency, the issuers are required to disclose shareholding pattern on a quarterly basis. Table 1-5 presents the sectorwise shareholding pattern of the companies listed at NSE at end of September 2010. It is observed that on an average the promoters held 56.46% of the total shares while public holding was 40.97%. Individuals held 11.97% and the institutional holding (FIIs, MFs, VCFs-Indian and Foreign) accounted for 13.63%.

In 2009, SEBI made it mandatory for promoters of listed companies to disclose the number of shares they had pledged. Table 1-6 shows that 9.17% of the total shares held by promoters are pledged as of September 2010.

Table 1-6: Sectorwise Pledged shares of Promoters for Companies listed at NSE (as of September 2010)

Company Classification	Indian Promoters	Foreign Promoters	Total Promoters Holding	Shares Pledged	%age of pledged shares
Banks	6,534,465,631	143,446,889	6,677,912,520	6,128,070	0.09
Engineering	663,834,221	29,030,834	692,865,055	19,791,352	2.86
Finance	4,764,526,960	146,817,774	4,911,344,734	80,839,896	1.65
FMCG	3,280,592,265	1,590,378,638	4,870,970,903	301,915,532	6.20
Information Technology	6,285,653,158	869,871,803	7,155,524,961	431,013,284	6.02
Infrastructure	48,382,461,742	1,471,622,586	49,854,084,328	6,036,387,267	12.11
Manufacturing	33,369,432,271	7,426,899,334	40,796,331,605	3,964,937,996	9.72
Media & Entertainment	2,834,254,557	196,254,541	3,030,509,098	759,349,238	25.06
Petrochemicals	12,197,875,542	1,641,350,810	13,839,226,352	586,834,779	4.24
Pharmaceuticals	3,169,074,018	762,325,152	3,931,399,170	210,195,372	5.35
Services	4,440,419,497	1,313,674,096	5,754,093,593	741,308,179	12.88
Telecommunication	7,625,438,913	1,112,826,881	8,738,265,794	566,950,494	6.49
Miscellaneous	3,706,984,252	295,905,091	4,002,889,343	433,051,215	10.82
Total			154,255,417,456	14,138,702,674	9.17

Source: NSE

Initiatives and developments by SEBI in Indian Securities Market in the year 2010

January 2010	SEBI allowed stock exchanges to introduce currency futures on additional currency pairs — GBP-INR EUR-INR and JPY-INR.
February 2010	SEBI set up committee for review of ownership and governance of market infrastructure institutions
April 2010	Reduction in time between issue closure and listing
May 2010	Introduction of Index options with tenure up to 5 years
May 2010	Permitting to set up a Stock exchange/ a trading platform by a recognized stock exchange having nationwide trading terminals for SME
July 2010	Introduction of call auction in Pre-open session.
July 2010	Allowing Physical Settlement of Stock Derivatives

July 2010	Market Access through Authorised Persons
July 2010	Reporting of OTC transactions in Certificates of Deposit (CDs) and Commercial Papers (CPs)
August 2010	Introduction of Smart Order Routing
August 2010	SEBI allows securities trading using wireless technology
October 2010	European Style Stock Options
October 2010	Currency Options on USD-INR were allowed for trading at NSE.
November 2010	Facilitating transactions in mutual fund schemes through the Stock Exchange infrastructure.

India and International Comparison

The securities markets in India and abroad witnessed recovery during 2009. This was reflected in the rising market capitalisation of stock exchanges of emerging and developing countries. The market capitalisation of the emerging markets increased to 28.3% of world total market capitalisation in 2009, up from 25.9% in 2008. The market value of emerging markets increased by 48.8% in 2009⁷. United States which accounted for 30.9% of the world total market capitalisation in 2009 registered a rise of 28.4% in its market capitalisation. However, neither the emerging countries nor the developed economies were able to surpass the levels of growth witnessed in market capitalisation and turnover during the year 2007. This is clearly exhibited in Table 1-7.

The stock markets worldwide have grown in size as well as depth over the years. As can be observed from (Table 1-7), the market capitalization of all listed companies in developed and emerging economies taken together on all markets stood at US \$ 48.71 trillion in 2009 up from US \$ 34.88 trillion in 2008. In terms of market capitalisation, nearly all the countries showed an increase in the year 2009 as compared with the year 2008. However, in terms of turnover, all the countries compared to the year 2009, the share of US in worldwide market capitalization remained at 30.9% at the end of 2009 as it was at the end of 2007. The stock market capitalisation for some developed and emerging countries is shown in chart 1-3.



⁷ S&P Global Stock Market Factbook 2010.



Table 1-7: International Comparison of Global Stock Markets

International Comparison	Market Capitalisation (US \$ mn)			Turnover (US \$ mn)			Turnover Ratio (in %)			Market Capitalisation Ratio (in %)			No. of listed Companies		
	2007	2008	2009	2007	2008	2009	2007	2008	2009	2007	2008	2009	2007	2008	2009
Markets															
Developed Market	46,300,864	26,533,854	34,907,166	82,455,174	67,795,950	64,458,380							26,251	26,375	24,635
Australia	1,298,429	675,619	1,258,456	1,322,822	1,017,705	761,820	110.50	103.10	78.80	151.54	65.00	82.37	1,913	1,924	1,882
France	2,771,217	1,492,327	1,972,040	3,418,890	3,265,494	1,365,807	131.50	152.40	78.80	106.83	52.28	51.55	707	966	941
Germany	2,105,506	1,107,957	1,297,568	3,363,093	3,105,288	1,288,867	179.70	191.50	107.20	63.35	30.31	38.51	658	638	601
Japan	4,453,475	3,220,485	3,377,892	6,497,193	5,879,439	4,192,624	141.60	153.20	128.80	101.73	65.90	82.74	3,844	3,299	3,208
Singapore	353,489	180,021	310,766	384,227	270,909	252,266	122.00	101.30	102.80	199.98	93.11	138.43	472	455	459
UK	3,858,505	1,851,954	2,796,444	10,324,477	6,486,959	3,402,496	270.10	226.90	146.40	137.85	69.55	156.47	2,588	2,415	2,179
USA	19,947,284	11,737,646	15,077,286	42,613,206	36,467,431	46,735,935	216.50	232.30	348.60	142.37	81.69	327.83	5,130	5,603	4,401
Emerging Markets	18,262,550	9,227,306	13,806,558	16,361,131	12,720,872	15,959,679							25,071	22,763	23,926
China	6,226,305	2,793,613	5,007,646	7,791,702	5,470,529	8,956,188	180.10	121.30	229.60	177.61	61.63	179.67	1,530	1,604	1,700
India	1,819,101	645,478	1,179,235	1,107,550	1,049,748	1,088,889	84.00	85.20	119.30	147.56	53.16	83.11	4,887	4,921	4,955
Russia	1,503,011	397,183	861,424	754,537	562,230	682,540	58.90	75.00	108.50	115.61	23.82	55.46	328	314	279
Brazil	1,370,377	589,384	1,167,335	584,951	727,793	649,187	56.20	74.30	73.90	100.32	35.97	41.30	442	432	377
Indonesia	211,693	98,761	178,191	112,851	110,678	115,310	64.40	71.30	83.30	48.98	19.35	21.34	383	396	398
Korea	1,123,633	494,631	836,462	1,947,015	1,465,999	1,581,487	201.60	181.20	237.60	107.09	53.11	189.97	1,767	1,798	1,778
Malaysia	325,663	187,066	255,952	150,002	85,214	72,970	53.50	33.20	32.90	175.11	84.58	38.08	1,036	977	953
Mexico	397,725	232,581	340,565	115,617	108,202	77,059	31.00	34.30	26.90	38.78	21.34	8.81	125	125	125
World Total	64,563,414	34,887,452	48,713,724	98,816,305	80,516,822	80,418,059							51,322	49,138	48,561
USA as % of World	30.90	33.64	30.95	43.12	45.29	58.12	--	--	--	--	--	--	10	11	9
India as % of World	2.82	1.85	2.42	1.12	1.30	1.35	--	--	--	--	--	--	10	10	10

Source: S&P Global Stock Market Factbook, 2009 and World Development Indicators, World Bank

Note:

Market Capitalisation ratio is computed as a percentage of GDP.



Following the implementation of reforms in the securities market in the past years, Indian stock markets have stood out in the world ranking. India has the distinction of having the largest number of listed companies followed by United States, Canada, Spain, Japan and United Kingdom. As per Standard and Poor's Fact Book 2010, India ranked 11th in terms of market capitalization and 11th in terms of turnover ratio as of December 2009. India posted a turnover ratio of 119.3% at end 2009.

According to the 'World Development Indicators 2010', there has been an increase in market capitalization as percentage of Gross Domestic Product (GDP) in some of the major country groups as is evident from (Table 1-8).

Table 1-8: Select Stock Market Indicators

Markets	Market Capitalisation as % of GDP			Turnover Ratio (%)			Listed Domestic Companies		
	2006	2007	2008	2007	2008	2009	2007	2008	2009
High Income	126.1	123.8	62.9	150.2	180.5	187.1	30,016	29,505	31,198
Middle Income	74.2	117	49.5	94.5	78.2	213.8	13,195	15,300	15,575
Low & Middle Income	73.3	113.9	48.9	94.3	77.8	213.8	20,106	16,834	16,120
East Asia & Pacific	85.1	165.1	58	163.5	112.0	229.5	4,080	3,868	3962
Europe & Central Asia	66.7	77.3	44.4	64.1	68.8	68.0	6,070	3,882	3610
Latin America & Caribbean	51.7	71.4	31.9	34.8	47.0	46.1	1,509	1,302	1471
Middle East & N. Africa	48.9	56.1	55.9	28.3	28.7	28.7	1,443	772	717
South Asia	77.2	133.4	47.0	101.3	89.3	88.9	6,089	6,098	6123
Sub-Saharan Africa	159.9	149.0	148.5	30.1	29.1	76.5	915	912	820
India	89.8	154.6	55.7	95.9	85.2	116.3	4,887	4,921	4,946
World	113.9	121.3	59.2	94.3	--*	--*	50,212	--*	--*

Source: World Development Indicators 2010, World Bank.

* Aggregates not preserved because data for high-income economies are not available for 2008

The increase, however, has not been uniform across countries. The turnover ratio in the year 2009 was 213.8% for Middle income and Low & Middle income countries and 187.1% for the high income countries. India's turnover ratio was 116.3% during 2009.

India's market capitalization to GDP ratio rose from levels close to low income countries to levels substantially higher than middle-income countries. Market capitalisation as percentage of GDP in India stood at 55.7% as at end 2008. The turnover ratio, which is a measure of liquidity, was 187.1% for high-income countries and 213.8% for low-income countries in 2009. In terms of total number of listed companies, high income countries together had 31,198 companies listed on their stock exchanges while there were 15,575 companies listed on stock exchanges of middle-income countries which was lower than the count of 16,120 companies listed on stock exchanges of low and middle income countries. The movement of various countrywise indices is shown in Chart 1-4 for the period January 2007 - September 2010. Nifty 50 was the best performer followed by Hangseng and Nasdaq. This shows that all the markets bounced back after the 2008 financial crisis.



Chart 1-4: gives the movement of different markets from January 2007- September 2010.



Role of NSE in Indian Securities Market

National Stock Exchange of India (NSE) was given recognition as a stock exchange in April 1993. NSE was set up with the objectives of (a) establishing a nationwide trading facility for all types of securities, (b) ensuring equal access to all investors all over the country through an appropriate communication network, (c) providing a fair, efficient and transparent securities market using electronic trading system, (d) enabling shorter settlement cycles and book entry settlements and (e) meeting the international benchmarks and standards. Within a short span of time, above objectives have been realized and the Exchange has played a leading role in transforming the Indian Capital Market to its present form.

NSE has set up infrastructure that serves as a role model for the securities industry in terms of trading systems, clearing and settlement practices and procedures. The standards set by NSE in terms of market practices, products, technology and service standards have become industry benchmarks and are being replicated by other market participants. It provides screen-based automated trading system with a high degree of transparency and equal access to investors irrespective of geographical location. The high level of information dissemination through on-line system has helped in integrating retail investors on a nation-wide basis.

NSE has been playing the role of a catalytic agent in reforming the market in terms of microstructure and market practices. Right from its inception, the exchange has adopted the purest form of demutualised set up whereby the ownership, management and trading rights are in the hands of three different sets of people. This has completely eliminated any conflict of interest and helped NSE to aggressively pursue policies and practices within a public interest framework. It has helped in shifting the trading platform from the trading hall in the premises of the exchange to the computer terminals at the premises of the trading members located country-wide and subsequently to the personal computers in the homes of investors. Settlement risks have been eliminated with NSE's innovative endeavors in the area of clearing and settlement viz., reduction of settlement cycle, professionalisation of the trading members, fine-tuned risk management system, dematerialisation and electronic transfer of securities and establishment of clearing corporation. As a consequence, the market today uses the state-of-art information technology to provide an efficient and transparent trading, clearing and settlement mechanism.

NSE provides a trading platform for all types of securities-equity, debt and derivatives. On its recognition as a stock exchange under the Securities Contracts (Regulation) Act, 1956 in April 1993, it commenced operations in the Wholesale

Debt Market (WDM) segment in June 1994, in the Capital Market (CM) segment in November 1994, and in Equity Derivatives segment in June 2000. The Exchange started providing trading in retail debt of Government Securities in January 2003 and trading in currency futures in August 2008.

The **Wholesale Debt Market** segment provides the trading platform for trading of a wide range of debt securities. Its product, which is now disseminated jointly with FIMMDA, the FIMMDA NSE MIBID/MIBOR is used as a benchmark rate for majority of deals struck for Interest Rate Swaps, Forwards Rate Agreements, Floating Rate Debentures and Term Deposits in the country. Its 'Zero Coupon Yield Curve' as well as NSE-VaR for Fixed Income Securities have also become very popular for valuation of sovereign securities across all maturities irrespective of its liquidity and facilitated the pricing of corporate papers and GOI Bond Index.

NSEs **Capital Market** segment offers a fully automated screen based trading system, known as the National Exchange for Automated Trading (NEAT) system, which operates on a strict price/time priority. It enables members from across the country to trade simultaneously with enormous ease and efficiency.

NSEs **Equity Derivatives** segment provides trading of a wide range of derivatives like Index Futures, Index Options, Stock Options and Stock Futures.

NSEs **Currency Derivatives** segment provides trading on currency futures contracts on the USD-INR which commenced on August 29, 2008. In February 2010, trading on additional pairs such as GBP-INR, EUR-INR and JPY-INR was allowed while trading in USD-INR currency options were allowed for trading on October 29, 2010. The interest rate futures trade on the currency derivatives segment of NSE and they were allowed for trading segment on August 31, 2009

The NSE yet again registered as the market leader with 87.64% of total turnover (volumes in cash market, equity derivatives and currency derivatives) in 2009-10. NSE proved itself as the market leader contributing a share of 74.98% in the equity trading and nearly 100% share in the equity derivatives segment in the year 2009-10 (Table 1-9). Not only in Indian Markets, but also in the global Markets, NSE has created a niche for itself in terms of derivatives trading in various instruments (discussed in detail with statistics in chapter 6 of this publication).

Table 1-9: Market Segments on NSE for 2009-10- Selected Indicators

Segments	No. of securities traded/ No. of contracts available for trading	Market Capitalisation as of March 2010		Trading Value for 2009-10		Market Share (%)
		₹ mn	US \$ mn	₹ mn	US\$ mn	
CM	1,971	60,091,732	1,331,230	41,380,234	916,709	74.98
Equity F&O	23,533	-	-	176,636,646	3,913,085	100.00
Currency Futures	48	-	-	17,826,080	394,907	47.83
Total	-	60,091,732	1,331,230	235,842,961	5,224,700	87.64

Notes:

1. For CM segment, number of securities traded is provided
2. For Equity F&O and currency futures number of contracts available for trading as of March 2010 are shown.
3. No. of contracts available for trading in equity futures and options include 3 Nifty futures, 3 BankNifty futures, 3 CNX IT futures, 3 Mini Nifty futures, Nifty Midcap 50 futures, 570 stock futures, 628 Nifty Options, 140 Bank Nifty options, 114 CNX IT options, 98 Mini Nifty options, 86 Nifty Midcap 50 options and 21,882 stock options. The count is as of March 31, 2010
4. No. of contracts traded in currency futures include 12 Euro-INR, 12 GBP-INR, 12 JPY-INR and 12 USD-INR. The count is as of March 31, 2010.



Milestones achieved by NSE in 2010

Month	Achievement
February 2010	<ul style="list-style-type: none"> • Launch of Currency Futures on additional currency pairs EURO-INR, JPY-INR, GBP-INR • Listing of Hangseng BeEs ETF-India's first ETF tracking an overseas stock market index
March 2010	Product Cross listing agreement between NSE- CME Group & NSE - SGX
April 2010	NSE awarded The Asian Banker Financial Derivative Exchange of the Year Award – 2010 and the Asian Banker Clearing House of the Year Award - 2010
July 2010	<ul style="list-style-type: none"> • Commencement of trading of S&P CNX Nifty Futures on CME • Real Time dissemination of India VIX.* • Letter of Intent signed with London Stock Exchange Group
September 2010	<ul style="list-style-type: none"> • Introduction of Mobile tracker, for providing market data to anyone who registers their mobile number on the NSE website, nseindia.com. • Commencement of mobile trading
October 2010	<ul style="list-style-type: none"> • Introduction of call auction in Pre-open session • Introduction of Currency Options on USD-INR • Introduction of European Style Stock Options • NSE started an investor awareness initiative on the Delhi Sealdah Rajdhani.

* "VIX" is a trademark of Chicago Board Options Exchange, Incorporated ("CBOE") and Standard & Poor's has granted a License to NSE, with permission from CBOE, to use such mark in the name of the India VIX and for purposes relating to the India VIX.

Technology and Application Systems in NSE

Technology has been the backbone of the Exchange. Providing the services to the investor community and the market participants using technology at the cheapest possible cost has been its main thrust. NSE chose to harness technology in creating a new market design. It believes that technology provides the necessary impetus for the organisation to retain its competitive edge and ensure timeliness and satisfaction in customer service. In recognition of the fact that technology will continue to redefine the shape of the securities industry, NSE stresses on innovation and sustained investment in technology to remain ahead of competition. NSE is the first exchange in the world to use satellite communication technology for trading. It uses satellite communication technology to energize participation from about 2,500 VSATs from nearly 200 cities spread all over the country.

Its trading system, called National Exchange for Automated Trading (NEAT), is a state-of-the-art client server based application. At the server end, all trading information is stored in an in-memory database to achieve minimum response time and maximum system availability for users. It has uptime record of 99.9%. For all trades entered into NEAT system, there is uniform response time of less than 1.5 seconds. NSE has been continuously undertaking capacity enhancement measures so as to effectively meet the requirements of increased users and associated trading loads. NSE has also put in place NIBIS (NSEs Internet Based Information System) for on-line real-time dissemination of trading information over the Internet.

As part of its business continuity plan, NSE has established a disaster back-up site at Chennai along with its entire infrastructure, including the satellite earth station and the high-speed optical fibre link with its main site at Mumbai. This site at Chennai is a replica of the production environment at Mumbai. The transaction data is backed up on near real time basis from the main site to the disaster back-up site through the 2 STM-4 (1.24 GB) high-speed links to keep both the sites all the time synchronized with each other.

The various application systems that NSE uses for its trading as well clearing and settlement and other operations form the backbone of the Exchange. The application systems used for the day-to-day functioning of the Exchange can be divided into (a) Front end applications and (b) Back office applications.

In the front office, there are 6 applications:

NEAT – CM	NEAT-CM system takes care of trading of securities in the Capital Market segment that includes equities, debentures/notes as well as retail Gilts. The NEAT–CM application has a split architecture wherein the split is on the securities and users. The application runs on two Stratus systems with Open Strata Link (OSL). The application has been benchmarked to support 15,000 users and handle more than 3 million trades daily. This application also provides data feed for processing to some other systems like Index, OPMS through TCP/IP. This is a direct interface with the trading members of the CM segment of the Exchange for entering the orders into the main system. There is a two way communication between the NSE main system and the front end terminal of the trading member.
NEAT – WDM	NEAT-WDM system takes care of trading of securities in the Wholesale Debt Market (WDM) segment that includes Gilts, Corporate Bonds, CPs, T-Bills, etc. This is a direct interface with the trading members of the WDM segment of the Exchange for entering the orders/trades into the main system. There is a two way communication between the NSE main system and the front end terminal of the trading member.
NEAT – F&O	NEAT-F&O system takes care of trading of securities in the Futures and Options (F&O) segment that includes Futures on Index as well as individual stocks and Options on Index as well as individual stocks. This is a direct interface with the trading members of the F&O segment of the Exchange for entering the orders into the main system. There is a two way communication between the NSE main system and the front end terminal of the trading member.
NEAT – IPO	NEAT-IPO system is an interface to help the initial public offering of companies which are issuing the stocks to raise capital from the market. This is a direct interface with the trading members of the CM segment who are registered for undertaking order entry on behalf of their clients for IPOs. NSE uses the NEAT IPO system that allows bidding in several issues concurrently. There is a two way communication between the NSE main system and the front end terminal of the trading member.
NEAT – MF	NEAT – MF system is an interface with the trading members of the CM segment for order collection of designated Mutual Funds units
NEAT- CD	NEAT – CD system is trading system for currency derivatives. Currently, currency futures are trading in the segment.

The exchange also provides a facility to its members to use their own front end software through the CTCL (computer to computer link) facility. The member can either develop his own software or use products developed by CTCL vendors.

In the back office, the following important application systems are operative:

Nationwide Clearing and Settlement System (NCSS)	NCSS is the clearing and settlement system of the NSCCL for the trades executed in the CM segment of the Exchange. The system has 3 important interfaces – OLTL (Online Trade loading) that takes each and every trade executed on real time basis and allocates the same to the clearing members, Depository Interface that connects the depositories for settlement of securities and Clearing Bank Interface that connects the 13 clearing banks for settlement of funds. It also interfaces with the clearing members for all required reports. Through collateral management system it keeps an account of all available collaterals on behalf of all trading/clearing members and integrates the same with the position monitoring of the trading/clearing members. The system also generates base capital adequacy reports.
Future and Options Clearing and Settlement System (FOCASS)	FOCASS is the clearing and settlement system of the NSCCL for the trades executed in the F&O segment of the Exchange. It interfaces with the clearing members for all required reports. Through collateral management system it keeps an account of all available collaterals on behalf of all trading/clearing members and integrates the same with the position monitoring of the trading/clearing members. The system also generates base capital adequacy reports.



Currency Derivatives Clearing and Settlement System (CDCSS)	CDCSS is the clearing and settlement system for trades executed in the currency derivative segment. Through collateral management system it keeps an account of all available collateral on behalf of all trading /clearing members and integrates the same with the position monitoring of the trading/clearing members. The System also generates base capital adequacy report.
Surveillance system	Surveillance system offers the users a facility to comprehensively monitor the trading activity and analyse the trade data online and offline.
Online Position Monitoring System (OPMS)	OPMS is the online position monitoring system that keeps track of all trades executed for a trading member vis-à-vis its capital adequacy.
Parallel Risk Monitoring System (PRISM)	PRISM is the parallel risk management system for F&O trades using Standard Portfolio Analysis (SPAN). It is a system for comprehensive monitoring and load balancing of an array of parallel processors that provides complete fault tolerance. It provides real time information on initial margin value, mark to market profit or loss, collateral amounts, contract-wise latest prices, contract-wise open interest and limits. The system also tracks online real time client level portfolio base upfront margining and monitoring.
Parallel Risk Monitoring System – Currency Derivatives (PRISM-CD)	PRISM-CD is the risk management system of the currency derivatives segment. It is similar in features to the PRISM of F&O Segment.
Data warehousing	Data warehousing is the central repository of all data in CM as well as F&O segment of the Exchange.
Listing system	Listing system captures the data from the companies which are listed in the Exchange for corporate governance and integrates the same to the trading system for necessary broadcasts for data dissemination process.
Membership system	Membership system that keeps track of all required details of the Trading Members of the Exchange.
Investor Services (NICE)	Investor can register their complaint against Trading Members (Broker) / Companies listed on the Exchange through the NSE INVESTOR CENTER (NICE) application

The exchange operates and manages a nationwide network. This network of over 2400 VSATs and 3000+ Leased Lines has been migrated from X.25 to IP in early 2009. In the new IP network, members have an advantage of a more generic and latest IP protocol and an overall better design, in terms of bandwidth and resilience. Currently, the network has over 2400 VSATs, 3000+ Leased Lines and 9 POPs (Point of Presence) across the country.

NOW

NSE is also offering internet based trading services to NSE members. This facility is branded as NOW or 'Neat on Web'. NOW provides an internet portal for NSE members and their authorized clients to transact orders and trades to the various market segments of NSE viz. CM, F&O and Currency. In addition to internet links, the members can also access NOW through their existing VSAT/Leased line. The various features provided by NOW are (a) comprehensive Administration features, flexible risk management system, high speed dealer terminals and online trading facility for investors.

Co-location @ NSE

The term "co-location/proximity hosting services" means space, power, telecommunications, and other ancillary products and services made available to market participants for the purpose of enabling them to position their computer systems/servers in close proximity to the transaction execution facility's trade and execution systems. Exchanges internationally are introducing co-location services to support high frequency trading using ALGO and DMA. In keeping with the global trends and maintaining high service excellence, NSE started co-location facility at its BKC premises in Jan 2010. The state-of-the-art co-location facility at BKC provides one of the most modern datacenter facilities.

Exchange hosting provides the ultimate solution in terms of low-latency access options to markets. This new service underlines exchange's commitment to reducing latency at each stage of the trading cycle and facilitating the structural shifts in trading patterns that are driving growth on our markets. The service will allow customers to host their algorithmic engines next to our execution engine and aid further liquidity generation and market efficiency.

The first phase of the facility provides for a total of 50 full racks, while the second phase provides a further capacity of 50+ full racks and 28 half racks. The strategy of providing half racks in exchange collocation space, which is first in itself in the world, is to enable small size trading members to subscribe to the co-location facility. This is in tune with NSE's philosophy of providing equal opportunity to all classes of trading members.

Features

- At par with global trends in exchange sphere
- High speed and low latency trading solution for our members
- In line with global benchmarks and practices in technology and pricing structure
- Designed & developed state-of-the-art tier 3+ datacenter
- Highly available, reliable, robust, redundant & secure network infrastructure
- Data-Centre Certification from Global Technology Leader (IBM)
- 24x7 Helpdesk with L1 support for stakeholders from day zero



Primary Market

Introduction

Primary market facilitates government as well corporates in raising capital to meet their requirements of capital expenditure and/or discharge of other obligation such as exit opportunity for venture capitalist/ PE firm. The most common primary mechanism for raising capital is an Initial Public Offer (IPO), under which shares are offered to common public as a precursor to the trading in secondary market of an exchange. The price at which the shares will be issued is decided with the help of book building mechanism and in case of oversubscription the shares are allotted on a pro-rata basis. When securities are exclusively offered to the existing shareholders of company, as opposed to the general public it is called 'Rights Issue'. Another mechanism whereby a listed company can issue equity shares, fully and partly convertible debentures which can be converted into equity shares later on, to a Qualified Institutional Buyer (QIB) is termed as Qualified Institutional Placement. Apart from raising capital in domestic market, companies can also issue securities in international market through ADR/GDR/ECB route and raise capital.

Trends

The issuers mobilize resources through public issues and private placements. The resources, raised by them from domestic as well as international markets, are presented in (Table 2-1). The total resources mobilized through Corporate and Government securities during 2009-10 increased by 52.91% over the previous year. The resources mobilized amounted to ₹ 10,075,102 million (US \$ 223,197 million) as against ₹ 6,588,920 million (US \$ 129,321 million) in 2008-09. This chapter presents developments in primary market for corporate securities in India, both equity and debt, while the primary market for government securities is discussed separately in Chapter 5.

Table 2-1: Resource Mobilisation by Government and Corporate Sector

Issues	₹ mn.)		(\$ mn.)	
	2008-09	2009-10	2008-09	2009-10
Corporate Securities	2,222,040	3,838,912	43,612	85,045
Domestic Issues	2,174,160	3,679,242	42,672	81,507
Public Issues	146,710	254,790	2,879	5,644
Private Placement	2,027,450	3,424,452	39,793	75,863
Euro Issues	47,880	159,670	940	3,537
Government Securities	4,366,880	6,236,190	85,709	138,152
Central Government	3,185,500	4,924,970	62,522	109,104
State Governments	1,181,380	1,311,220	23,187	29,048
Total	6,588,920	10,075,102	129,321	223,197

Source: RBI

– : Nil/Negligible

Corporate Securities

The primary market for corporate securities witnessed a rapid upsurge in 2009-10. Resources raised through public issues witnessed a huge jump of 73.67% from ₹ 146,710 million (US \$ 2,879 million) in 2008-09 to ₹ 254,790 million (US \$ 5,644 million). It accounted for a mere 6.93% of the total resources mobilized domestically. Though the private placements also increased by 68.9% it accounted for 93.07% of the resources mobilized in the domestic market.

The resources raised by Indian corporates from the international capital market through the issuance of FCCBs, GDRs and ADRs also witnessed a significant increase of 233.48% during 2009-10 raising ₹ 159,670 million (US \$ 3,537 million) as against ₹ 47,880 million (US \$ 940 million) in the previous year.

Policy Developments

I. Amendments in the SEBI (Disclosure and Investor Protection) DIP guidelines notified in July 2009

- Listing of IPO on stock exchange with nationwide trading terminals: An unlisted company making an IPO needs to list the securities on at least one stock exchange having nationwide trading terminals. This would provide a liquid trading platform to investors in securities of the company.
- Anchor Investor in public issues: An issuer making a public issue of shares through book building may allocate on a discretionary basis up to 30% of the QIB portion of the issue to anchor investors (AIs), who is a QIB. The minimum size of application by AIs would be ₹ 10 crore. They would bring in a margin of 25% on application and the balance 75% within 2 days of the date of closure of the public issue. There would be a lock-in of 30 days on the shares allotted to these investors from the date of allotment. No person related to the promoter/promoter group/BRLMs can apply as anchor investor. This would bring more certainty to transactions.

II. Amendments to the Equity Listing Agreement

With a view to enhance disclosures regarding shareholding pattern in a listed company and bring in more transparency and efficiency in the governance of a listed company, SEBI amended certain clauses in the Equity Listing Agreement in April 2009.

To mitigate the problem of large number of shares issued pursuant to the public issue which remain unclaimed, SEBI brought out a uniform procedure for dealing with unclaimed shares i.e shares which could not be allotted to the rightful shareholder due to insufficient/incorrect information or any other reason. Accordingly, the new Clause 5A was inserted, which, inter alia, provides - the unclaimed shares needs to be credited to a demat suspense account opened by the issuer with one of the depository participants, any corporate benefit in terms of securities, accruing on unclaimed shares such as bonus shares, split etc., also needs to be credited to such account. Details of shareholding of each individual allottee whose shares have been credited to such suspense account needs to be properly maintained by the issuer. The allottee's account would be credited as and when he/she approaches the issuer, after undertaking the proper verification of identity of the allottee. The voting rights of these shares would remain frozen till the rightful owner claims the shares. Details (in aggregate) of shares in the suspense account including freeze on their voting rights, needs to be disclosed in the Annual Report as long as there are shares in the suspense account.

Further, clause 16 and clause 19 in the listing agreement was amended to reduce the timelines for notice period for all corporate actions like dividend, bonus etc, for all scripts in demat or physical form, in F&O segment or not. The notice period for record date was reduced to 7 working days and for board meeting was reduced to 2 working days. A new clause (20 A) was inserted which takes care of the mandating listed companies to declare their dividend on per share basis only. This is expected to bring uniformity in the manner of declaring dividend amongst the listed companies.

SEBI also clarified that clause 35 of the listing agreement which gives a format for disclosures of shareholding pattern, is required to be given for each class of security separately. Further, clause 35 was amended to provide an additional format for disclosures of voting rights pattern in the company.



III. Issues regarding applicability of SEBI Delisting Regulations clarified

SEBI notified the (Delisting of Equity Shares) Regulations, 2009 on June 10, 2009. Since the notification of this regulation, SEBI received queries from various market participants, listed companies etc regarding the 'transitional provisions' contained in regulation 31 of the Delisting Regulations, which outlines certain situations under which the provisions of the earlier Securities and Exchange Board of India (Delisting of Securities) Guidelines, 2003 (Delisting Guidelines) would still be applicable to a particular delisting transaction.

In this regard, it was clarified that in cases where a special resolution had already been passed under the Delisting Guidelines prior to commencement of the Delisting Regulations, the delisting process would be governed by the provisions of the Delisting Guidelines, provided the said resolution is acted upon within a period of three months from September 14, 2009 (i.e the date of the issuance of the circular on the above subject). Otherwise, the company would be required to pass a fresh special resolution in terms of Delisting Regulations and proceed for delisting in terms of Delisting Regulations. For this purpose, the words "acted upon" would mean that the implementation of activities including the opening of the book building process for determination of the exit price in terms of Clause 8.1 of the Delisting Guidelines, would be required to be done within three months from September 14, 2009 (i.e the date of the issuance of the circular on the above subject.)

IV. Amendments to listing agreement and takeover regulation

SEBI, at its Board meeting held on 22nd September, 2009, decided to amend the listing agreement and takeover regulation. The Board took, inter-alia, the following decisions.

- Amendments to Listing Agreement/ ICDR Regulations:-

Compliance with applicable Accounting Standards : A listed company undergoing corporate restructuring (merger, demerger or amalgamation) under a scheme of arrangement would be required to submit an auditors' certificate to the stock exchange to the effect that the accounting treatment followed in respect of financials contained in the scheme is in compliance with all the applicable accounting standards. This requirement would be prescribed through amendments to listing agreement. An unlisted company undergoing similar corporate restructuring and proposing to make an IPO would be required to make disclosures in the DRHP (Draft Red Herring Prospectus) in terms of AS 14. This is mandated through the SEBI (Issue of Capital and Disclosure Requirements) Regulations, 2009.

Facilities for issue of Indian Depository Receipts:- SEBI has decided to extend the facility of anchor investors to issue of IDRs on similar terms as applicable to public issues made by domestic companies. It also decided that at least 30% of issue size of the IDRs be reserved for allocation to retail individual investors, who may otherwise be crowded out.

- Amendments to SEBI (Substantial Acquisition of Shares and Takeovers) Regulations (Takeover Regulations) :-

Applicability of open offer obligation in case of GDRs/ADRs etc In tune with market developments, the Board decided to amend the Takeover Regulations to provide that, where the ADR/ GDR holders are entitled to exercise voting rights on the shares underlying GDRs / ADRs by virtue of clauses in the depository agreement or otherwise, open offer obligations would be triggered upon crossing the threshold limits set out under Chapter III of the Regulations.

Disclosure of sale/ purchase by acquirer under Regulation 7 (1A): Regulation 7 (1A) of the Takeover Regulations requires disclosures on (+ /-) 2% acquisition / divestment by the acquirers holding shares / voting rights between 15-55%. The Board decided to extend such disclosure requirements to acquirers holding shares / voting rights between 15-75%.

V. Amendments in the Issue of Capital and Disclosure Requirements, Regulations, 2009 (ICDR)

SEBI, at its Board meeting held on 9th November, 2009, decided to amend the ICDR Regulations/ Listing Agreement, to inter-alia, require interim disclosure of Balance Sheet items by listed entities and permitting pure auctions for qualified

institutional investors (QIBs) in follow-on public offerings to begin with. The amendments are as follows:

QIB Status to insurance funds set up by armed forces: The Board decided to accord QIB status to insurance funds set up by armed forces such as Army Group Insurance Fund.

Reservation to employees: The ICDR regulations permitted reservation upto 10% of issue size to employees in public issues. However, there was no ceiling on number of shares that could be allotted. SEBI decided to put a ceiling of ₹ 1 lakh on the value of allotment that can be made to an employee under employee reservation category and to permit reservation upto 5% of the post issued capital instead of 10% of issue size. SEBI also decided to extend reservation to employees along with rights issue. The ICDR Regulations also provided for discount upto 10% of issue price to retail individual investors and shareholders but not to employees. It was also decided to allow discount of not more than 10 percent to employees also under the reserved category only in public issues for application size upto ₹ 1,00,000/-.

Voluntary adoption of IFRS by listed entities having subsidiaries: The Board observed that providing a voluntary option to all listed entities which consolidate their books of accounts to submit their financials as per IFRS would be in line with the objective of achieving convergence to IFRS by 2011 and would help in preparing corporate entities well in advance for compliance with IFRS requirements. SEBI, therefore, decided to provide an option to all listed entities with subsidiaries to submit their consolidated financial statements as per IFRS. However, such entities are required to continue to file their stand alone financials as per Indian GAAP in line with the Companies Act requirements.

Interim disclosure of Balance Sheet items by listed entities: Taking note that internationally most jurisdictions require disclosure of Balance Sheet items on an interim basis whereas in India companies disclose only interim financial results, SEBI decided to mandate half-yearly disclosure of Balance Sheet items with audited figures or un-audited figures with limited review.

Timelines for submission of financial results by listed entities: There were varying time limes for disclosure of unaudited/ audited/ limited review results. SEBI decided to make it mandatory to disclose only limited review or audited results within 45 days of the end of the quarter. It was also decided to reduce timeline for disclosure of audited annual results from 90 days to 60 days to those companies which opt to submit their annual audited results on a stand-alone basis in lieu of the last quarter un-audited financial results.

Requirements for Fast Track Issues: In order to enable well established and compliant listed companies to access Indian primary market in a time effective manner through follow-on public offerings and rights issues, SEBI introduced the concept of Fast Track Issues (FTIs) in November 2007. SEBI decided to relax certain requirements of FTIs such as reducing the average market capitalization of public shareholding of the issuer to five thousand crore rupees from ten thousand crore rupees, pegging the annualized trading turnover to free float for companies whose public shareholding is less than 15 percent of the issued capital. It was also decided that incase the clause relating to composition of Board of Directors has not been complied with in one or more quarters, it need not be deemed as non compliance, provided the company is in compliance in this regard at the time of filing the offer document with stock exchange/ ROC and adequate disclosures are made in the offer document in this respect.

Relaxation from restatement of financial statements: SEBI had recently rationalized financial disclosure requirements for rights issues on the ground that much of the information of a listed company is available in public domain. For rights issues, the issuer is required to give only the audited accounts of last financial year and audited or unaudited financials with limited review results for the stub period instead of 5 years restated financials required earlier. Extending the same logic, the SEBI decided that the requirement for disclosure of financials in FPOs of identical instruments quoted on a stock exchange may be brought on par with rights issues and to start with companies that are eligible to make an issue under fast track, subject to certain conditions.

Introduction of pure auction as an additional book building mechanism: It was decided to introduce an additional method of book building, to start with, for FPOs, in which the bidders would be free to bid at any price above the floor price and allotment would be on price priority basis and at differential prices. However, retail individual investors in such cases would be allotted shares at the floor price. The Board further decided that if the issuer desires to place a cap either in terms of number of shares or percentage to issued capital of the company in order that a single bidder does not



garner all shares on offer and there is wider distribution, the same would be permitted.

VI. Debt Listing Agreement for Debt Securities simplified

SEBI had, vide its circular dated May 11, 2009 put in place the Simplified Listing Agreement for Debt Securities. Pursuant to suggestions from various market participants received subsequently, SEBI had amended the said Listing Agreement vide its circular dated November 26, 2009.

The amendments are briefly summarized as under:

100% Asset Cover: To align the Listing Agreement with the provisions of the Companies Act, 1956, the amended Listing Agreement requires issuers to maintain 100% asset cover sufficient to discharge the principal amount at all times for the debt securities issued. Further, to provide more information to investors, the periodic disclosures to the stock exchange require disclosure of the extent and nature of security created and maintained.

Submission of certificate on maintenance of security: As against half-yearly certifications on security cover in respect of listed secured debt securities, the amended Listing Agreement provides for submission of such certificates regarding maintenance of 100% asset cover, and the time limit of submission in respect of the last half year has been aligned with the option provided for submission of annual audited results at a later date. In addition to Banks and NBFCs being exempt from submitting such certificates, issuers of Government guaranteed bonds are also exempted.

Statement on Use of Issue Proceeds: In order to enhance the quality of disclosures made to investors, issuers are required to furnish a statement of deviations in use of issue proceeds, if any, to the stock exchange on a half yearly basis. Also, the same is required to be published in the newspapers simultaneously with the half-yearly financial results.

Deposit of 1% of issue proceeds: So as to ensure that the interest of investors investing in public issues of debt securities is protected, the issuer is required to deposit an amount calculated at 1% of the amount of debt securities offered for subscription to the public. It is refundable or forfeitable in the manner stated in the Rules, Bye-laws and Regulations of the Exchange.

Submission/ publication of Financial Statements: The time-lines for disclosure of financial statements have been aligned with the proposed changes to the Equity Listing Agreement. Accordingly, issuers have to publish/ furnish to the Exchange, either audited half yearly financial statements or unaudited half yearly financial statements subject to a limited review within 45 days from the end of the half year. In case of the last half year, issuers may opt to submit their annual audited results in lieu of the unaudited financial results for the period, within 60 days from the end of the financial year.

VII. Disclosure of details of the allottees in the Qualified Institutional Placements (QIP) made by issuer company

SEBI has issued a circular in exercise of powers conferred by sub-section (1) of Section 11 of the Securities and Exchange Board of India Act, 1992, to protect the interest of investors in securities and to promote the development of, and to regulate the securities market. According to the circular, the details of allottees and the corresponding pre and post QIP issue shareholding in the issuer company may be disclosed on the website of the stock exchanges.

All the stock exchanges have been asked to ensure that, the details of those allottees in QIP who have been allotted more than 5% of the securities offered in the QIP, viz names of the allottees and number of securities allotted to each of them, pre and post issue shareholding

pattern of the issuer in the format specified in clause 35 of the Equity Listing Agreement shall be made available on the website of stock exchanges along with the final placement document.

VIII. Amendments to the Equity Listing Agreement

As part of a review of the extant policies of disclosure requirements for listed entities and also to bring more transparency and efficiency in the governance of listed entities SEBI has decided to specify certain listing conditions so to amend the Equity Listing Agreement.

- Amendments to Equity Listing Agreement Regulations:-

- 1) Requirement of auditors' certificate for accounting treatment under schemes of arrangement- Amendment to clause 24

It has been observed that in some of the recent schemes of amalgamation / merger / reconstruction, etc. (schemes) of certain listed entities submitted to the Hon'ble High Court for approval, there are included details of the accounting treatment to be given to various items in the process of amalgamation/merger/reconstruction etc. If this accounting treatment is not in accordance with the accounting standards specified under section 211(3C) of the Companies Act, 1956, the resultant financial statements of the entity concerned will not be in conformity with the accounting standards.

In view of the above, it has been decided that while submitting the scheme of amalgamation / merger / reconstruction, etc. (schemes) to the stock exchanges under clause 24(f) of the Equity Listing Agreement, the listed entities shall also submit to the concerned stock exchange, an auditors' certificate to the effect that the accounting treatment contained in such schemes is in compliance with all the applicable Accounting Standards.

- 2) Timelines for submission and publication of financial results by listed entities- Amendment to clause 41(l)(c),(d)(e) and 41(VI)(b)

With a view to streamline the submission of financial results by listed entities by making it uniform and to reduce the timeline for submission of the same to the stock exchanges, it has been decided that listed entities shall disclose, on standalone or consolidated basis, their quarterly (audited or un-audited with limited review), financial results within 45 days of the end of every quarter.

Also, audited annual results on stand-alone as well as consolidated basis, shall be disclosed within 60 days from the end of the financial year for those entities which opt to submit their annual audited results in lieu of the last quarter unaudited financial results with limited review.

With regard to publication of consolidated financial results alone, the following, viz., (a) Turnover (b) Profit before tax and (c) Profit after tax on a stand-alone basis shall also be published.

- 3) Voluntary adoption of International Financial Reporting Standards (IFRS) by listed entities having subsidiaries - Insertion of Clause 41(l) (g)

In order to familiarize listed entities with the IFRS requirements within the aforesaid timeline, it has been decided to provide an option for listed entities having subsidiaries to submit their consolidated financial results either in accordance with the accounting standards specified in section 211(3C) of the Companies Act, 1956, or in accordance with IFRS. Submission of stand-alone financial results to the stock exchanges shall continue to be in accordance with the Indian GAAP.

- 4) Interim disclosure of Balance Sheet items by listed entities- Insertion of clause 41(V) (h) and Annexure IX

Presently, shareholders have access to the statement of assets and liabilities of the listed entity and its solvency position only on an annual basis. In the wake of the recent global financial crisis, the issue of solvency has come to the forefront from the shareholders' perspective. With a view to have more frequent disclosure of the asset-liability position of entities, it has been decided that listed entities shall disclose within forty-five days from the end of the half-year, as a note to their half-yearly financial results, a statement of assets and liabilities in the specified format.

- 5) Approval of appointment of 'CFO' by the Audit Committee- Insertion of Clause 49(II)(D)(12A)

In order to ensure that the CFO has adequate accounting and financial management expertise to review and certify the financial statements as required under Clause 49 of the Listing Agreement, it has been decided that the appointment of the CFO is approved by the Audit Committee before finalization of the same by the management. The Audit Committee, while approving the appointment, shall assess the qualifications, experience & background etc. of the candidate.



IX. RBI guidelines on Perpetual Non-Cumulative Preference Shares (PNCPS) as part of Tier I capital

The dividend missed in a year will not be paid in future years, even if adequate profit is available and the level of CRAR conforms to the regulatory minimum. When dividend is paid at a rate lesser than the prescribed rate, the unpaid amount will not be paid in future years, even if adequate profit is available and the level of CRAR conforms to the regulatory minimum.

X. Government amends the Securities Contracts (Regulation) Rules 1956 - Listed firms must have 25% public holding

The Department of Economic Affairs, Ministry of Finance has amended the Securities Contracts (Regulation) Rules 1956 to increase the minimum non-promoter holdings in Indian companies from 10% to 25% on June 4th, 2010. These amendments include raising the minimum threshold level of public holding to 25% for all listed companies and at least 10% of post issue capital of the public sector undertaking or if the market capitalisation is more than four thousand crore rupees. The existing listed companies having less than 25% public holding should reach the minimum level of 25% by an annual addition of at least 5% to public holding. The amendments say that a company may increase its public shareholding by less than 5% in a year, if such increase brings its public shareholding to the level of 25% in that year.

The amendment was very much required as dispersed shareholding structure is essential for the sustenance of a continuous market for listed securities to provide liquidity to the investors and to discover fair prices. Further, the larger the number of shareholders, the less is the scope for price manipulation. All listed companies will henceforth be required to maintain a public shareholding of at least 25 per cent. If it falls below 25 per cent, the company will have to bring the public shareholding up to 25 per cent within a period of three years. A listed public sector company which has a public shareholding below 10% on the date of commencement of the Securities Contracts (Regulation) (Second Amendment) Rules, 2010 shall increase its public shareholding to at least 10% within a period of three years.

XI. Issue and Pricing of Shares by Private Sector Banks

All banks in private sector were required to obtain approval of Reserve Bank of India (RBI) for issue of shares through Initial Public Offers (IPOs) and preferential issues. Further, while the banks were advised to follow certain prescriptions relating to pricing in respect of Initial Public Offers (IPOs), Bonus issues and preferential issues, SEBI requirements in respect of Bonus issues have also been indicated.

SEBI had introduced a Qualified Institutional Placements (QIPs) route in May 2006, which would enable listed companies to raise funds from the domestic market. Consequently, many of the private sector banks have been availing this route for raising capital. It is considered necessary to clearly spell out the approval mechanism in respect of Qualified Institutional Placements (QIPs). Accordingly, the guidelines in respect of issue and pricing of shares by private sector banks have been revised to incorporate the Qualified Institutional Placements mode of raising capital.

The revised guidelines are as follows:

- a) All banks should obtain RBI approval for IPOs. After listing on the stock exchanges, banks are free to price their subsequent issues. Issue price should be based on merchant banker's recommendation. There need be no reference to the CCI formula for deciding on the pricing of such issues. RBI approval would not be required for rights issues by both listed and unlisted banks.
- b) Private sector banks, both listed and unlisted, need not seek RBI's approval for bonus issues. The issues would, however, be subject to SEBI's requirements on issue of bonus shares, viz. bonus issues (a) should be made from free reserves built out of genuine profits or share premium, (b) should not dilute the value or rights of partly or fully convertible debentures, (c) should not be in lieu of dividend and (d) should not be made unless all partly paid-up shares are fully paid-up. Further, bonus issues may be issued without linkage to rights issues.
- c) All preferential issues would require prior approval of RBI. Pricing of preferential issues by listed banks may be as per SEBI formula, while for unlisted banks the fair value may be determined by a chartered accountant or a merchant banker.

- d) Private Sector Banks need to approach RBI for prior 'in principle' approval in case of Qualified Institutional Placements. Banks need to approach RBI along with details of the issue once the bank's Board approves the proposal of raising capital through this route. Further, allotment to the investors would be subject to compliance with SEBI guidelines on QIPs and RBI guidelines dated February 3, 2004 on acknowledgement of allotment / transfer of shares. Once the allotment process is complete, the banks would also be required to furnish complete details of the issue to RBI for seeking post facto approval. This would be irrespective of whether any acquisition results in shareholding of 5% or more of the paid up capital of the bank.
- e) In case of pricing of issues where RBI approval is not required, pricing of issues should be as per SEBI guidelines; in cases where prior approval of RBI is required, pricing should take into account both SEBI and RBI guidelines.

XII. Conditions of listing for issuers seeking listing on SME Exchange

In recognition of the need for making finance available to small and medium enterprises, SEBI has decided to encourage promotion of dedicated exchanges and/or dedicated platforms of the exchanges for listing and trading of securities issued by Small and Medium Enterprises ("SME"). "Model Equity Listing Agreement – for SME Exchange" shall be executed for listing of specified securities issued or migrated on SME exchange, in terms of Chapter XA of the SEBI (ICDR) Regulations.

Certain relaxations are provided to the issuers whose securities are listed on SME exchange in comparison to the listing requirements in Main Board, which inter-alia include the following:

- a) Periodical financial results may be submitted on "half yearly basis", instead of "quarterly basis" and SMEs need not publish their financial results, as required in the Main Board and can make it available on their website.

XIII. Issuance of Non-Convertible Debentures (Reserve Bank) Directions, 2010

The Reserve Bank of India, having considered it necessary in public interest and to regulate the financial system of the country to its advantage, has come out with the directions called the Issuance of Non-Convertible Debentures (Reserve Bank) Directions, 2010 and they shall come into force with effect from August 02, 2010. For the purposes of these Directions, Non-Convertible Debenture (NCD) means a debt instrument issued by a corporate (including NBFCs) with original or initial maturity up to one year and issued by way of private placement.

A corporate shall be eligible to issue NCDs if it fulfills the following criteria, namely,

- 1) the corporate has a tangible net worth of not less than ₹4 crore, as per the latest audited balance sheet;
- 2) the corporate has been sanctioned working capital limit or term loan by bank/s or all-India financial institution/s; and
- 3) the borrowal account of the corporate is classified as a Standard Asset by the financing bank/s or institution/s.

An eligible corporate intending to issue NCDs shall obtain credit rating for issuance of the NCDs from one of the rating agencies. The minimum credit rating shall be P-2 of CRISIL or such equivalent rating by other agencies and the Corporate shall ensure at the time of issuance of NCDs that the rating so obtained is current and has not fallen due for review. The tenor of the NCDs shall not exceed the validity period of the credit rating of the instrument. NCDs shall not be issued for maturities of less than 90 days from the date of issue. The exercise date of option (put/call), if any, shall not fall within the period of 90 days from the date of issue.

NCDs may be issued at face value carrying a coupon rate or at a discount to face value as zero coupon instruments as determined by the corporate. The aggregate amount of NCDs issued by a corporate shall be within such limit as may be approved by the Board of Directors of the corporate or the quantum indicated by the Credit Rating Agency for the rating granted, whichever is lower. NCDs may be issued in denominations with a minimum of ₹5 lakh (face value) and in multiples of ₹1 lakh. The total amount of NCDs proposed to be issued shall be completed within a period of two weeks from the date on which the corporate opens the issue for subscription.



XIV. Filing Offer Documents under SEBI (Issue of Capital and Disclosure Requirements) Regulations, 2009

It has been decided by SEBI that with immediate effect draft offer documents in respect of issues of size upto ₹ 100 crore shall be filed with the concerned regional office of the Board under the jurisdiction of which the registered office of the issuer company falls. Merchant Bankers are further advised to file five copies of the draft offer documents / offer documents with the regional office of the Board indicated above.

XV. ASBA facility in public issues extended to QIBs

SEBI has decided to extend the ASBA facility to QIBs in public issues opening on or after May 1, 2010. In this regard, Stock Exchanges, Merchant Bankers, Registrar to an Issue and Bankers to an issue acting as Self Certified Syndicate Banks have been advised to ensure that appropriate arrangements are made to accept ASBA forms from QIBs also in addition to the existing categories of investors.

XVI. Reduction in time between issue closure and listing

Presently, it takes on an average around 22 days to list the securities after an issue closes. This exposes investors as well as issuers to market risk as well as leading to infrastructural stress and costs. In consultation with market intermediaries, SEBI has reduced the time between issue closure and listing to 12 working days. This revised procedure is applicable to all public issues opening on or after May 3, 2010.

In the new process, the syndicate members shall capture all data relevant for purposes of finalizing basis of allotment while uploading bid data in the electronic bidding system of the stock exchanges. In order that the data so captured is accurate, syndicate members may be permitted an additional day to amend some of the data fields entered by them in the electronic bidding system. In case of apparent data entry error by either syndicate member or collecting bank in entering the application number in their respective schedules other things remaining unchanged, the application may be considered as valid and such exceptions may be recorded in minutes of the meeting submitted to stock exchange(s). In the event of mistake in capturing the application number by either the syndicate member or collecting bank leading to rejection of application, the registrar may identify based on the bid form, the entity responsible for the error. Valid records in electronic file will be those for which money is received.

Sr No.	Details of Activities	Due Date (Working Day)
1.	Syndicate members upload bid details in the electronic bidding system of stock exchange(s). Syndicate members need to ensure that required documents are attached with the application form.	Issue opening date to issue closing date (where T is issue closing date)
2.	Issue closes.	T
3.	Stock exchange(s) to allow syndicate members to undertake modification of selected fields in the bid details already uploaded. Registrar to get the electronic bid details from the stock exchanges at the end of the day.	T + 1
4.	Issuer, merchant banker and registrar to submit relevant documents to the stock exchange(s) except listing application, allotment details and demat credit and refund details for the purpose of listing permission. Syndicate members to forward a schedule (containing application number, payment instrument number and amount), application forms and payment instruments to collecting banks. Collecting banks may not accept bid schedule, bid applications and payment instrument after T + 2 day. Registrar to give bid file received from the stock exchanges containing the application number and amount to all the collecting banks who can use this file for validation at their end. Registrar to commence validation of the electronic bid details with depositories records for DP ID, Client ID and PAN.	T + 2

Sr No.	Details of Activities	Due Date (Working Day)
5.	Registrar to continue validation of the electronic bid details with depositories records. Collecting banks to commence clearing of payment instruments.	T + 3
6.	Registrar to complete validation of the electronic bid details with depositories records. Collecting banks to start forwarding application forms along with bank schedules to registrar.	T + 4
7.	Registrar to prepare list of rejected bids based on mis-match between electronic bid details and depositories data base. Registrar to undertake "Technical Rejection" test based on electronic bid details and prepare list of technical rejection cases.	T + 5
8.	Collecting banks to submit status of clearance status of payment instrument i.e. "Final Certificate" to the registrar.	T + 6
9.	Collecting banks to ensure that all application forms are forwarded to the registrar. Registrar to undertake and complete reconciliation of final certificate received from the collecting banks with electronic bid details. Registrar submits the final basis of allotment to Designated Stock Exchange(s) for approving the basis of allotment.	T + 7
10.	Designated stock exchange(s) to approve the basis of allotment. Registrar to prepare funds transfer schedule based on approved allotment. Registrar to give instructions to depositories to carry out lockin for pre issue capital.	T + 8
11.	Registrar and merchant banker to issue funds transfer instructions to collecting banks. Collecting banks to credit the funds in Public Issue Account of the issuer and confirm the same. Issuer to make allotment. Registrar to give instruction to depositories for credit of shares to successful allottees. Registrar to receive confirmation for pre-issue capital lock-in from depositories.	T + 9
12.	Issuer and registrar to file allotment details with designated stock exchange(s) and confirm all formalities are completed except demat credit and refund. Registrar to complete refund dispatch. Registrar to issue bank-wise data of allottees, allotted amount and refund amount to collecting banks.	T + 10
13.	Registrar to receive confirmation of demat credit from depositories and submit the same to the stock exchange(s). Issuer and registrar to file confirmation of demat credit and refund dispatch with stock exchange(s). Issuer to make a listing application to stock exchange(s) and stock exchanges to give listing and trading permission. Issuer, merchant banker and registrar to publish allotment advertisement before the commencement of trading, prominently displaying the date of commencement of trading, in all the newspapers where issue opening/closing advertisements have appeared earlier. Stock exchange(s) to issue commencement trading notice.	T + 11
14.	Trading commences	T + 12

*Working days will be all days excluding Sundays and bank holidays



XVII. Entities seeking listing of their securities post-IPO shall have to submit their shareholding pattern one day prior to the date of listing

In order to improve the quality of disclosures made by listed entities, SEBI has decided to alter the following amendments of the Equity Listing Agreement (LA).

- a) Entities which seek listing of their securities post-IPO shall mandatorily submit their shareholding pattern as per Clause 35 of the LA one day prior to the date of listing, in order to ensure public dissemination of updated shareholding pattern. The stock exchanges shall upload the same on their websites before commencement of trading in the said securities.
- b) With a view to ensure public dissemination of the shareholding pattern pursuant to capital restructuring in listed entities, it has been decided that in all cases wherein the change in capital structure due to such restructuring exceeds +/- 2% of the paid up share capital of the entities, the listed entities shall file a revised shareholding pattern with the stock exchanges within 10 days from the date of allotment of shares pursuant to such change in the capital structure, as per the format specified in clause 35 of the LA alongwith a footnote on what necessitated the filing of the revised shareholding pattern. The stock exchanges shall upload the same on their websites immediately.
- c) In the case of listed entities which have issued Depository Receipts (DRs) overseas, in order to ensure a holistic and true picture of the promoter/promoter group holding in such entities, it has been decided that details of 'shares held by custodians and against which DRs have been issued' which are presently required to be disclosed in Table (I) (a) of Clause 35 shall be further segregated as those pertaining to the 'promoter/promoter group' and to the 'public'.
- d) In order to enable investors to manage their cash/securities flows efficiently and to enhance process transparency, it has been decided to mandate companies to have a pre-announced fixed pay date for payment of dividends and for credit of bonus shares.
- e) In order to ensure public dissemination of details of agreements entered into by corporates with media companies, it has been decided that the listed entities shall disclose details of such agreements on their websites and also notify the stock exchange of the same for public dissemination.
- f) In order to ensure/enhance public dissemination of all basic information about the listed entity, it has been decided to mandate that the listed entities maintain a functional website that contains certain basic information about them, duly updated for all statutory filings, including agreements entered into with media companies, if any.

Market Design

The primary market is governed by the provisions of the Companies Act, 1956, which deals with issues, listing and allotment of securities. Additionally the SEBI - prescribes the eligibility and disclosure norms through the ICDR Regulations 2009 to be complied by the issuer, promoter for accessing the market. In this section we discuss the market design related to public issues, offer for sale, rights issue by listed and unlisted companies as per the ICDR Regulations prescribed by SEBI.

Eligibility Norms :

Any company issuing securities has to satisfy the following conditions at the time of filing the draft offer document and the final offer document with SEBI and Registrar of Companies (RoCs)/Designated Stock Exchange respectively:

- File a draft offer document with SEBI, along with specified fees through an eligible merchant banker, at least 30 days prior to the filing of red herring prospectus or shelf prospectus with the Registrar Of Companies (RoCs) or filing the letter of offer with the designated stock exchanges as the case may be.
- Obtain In-principle approval from all the recognized stock exchanges in which the issuer proposes to get its specified securities listed.

- Enter into an agreement with the depository for dematerialisation of its securities already issued or proposed to be issued

A company can make an IPO as per the following conditions:-

- It has net tangible assets of at least ₹ 3 crore in each of the preceding 3 full years, of which not more than 50% is held in monetary assets; provided that if more than 50% of the net tangible assets are held in monetary assets, the company has made firm commitments to deploy such excess monetary assets in its business/project;
- It has a net worth of at least ₹ 1 crore in each of the preceding 3 full years;
- It has a track record of distributable profits in terms of section 205 of the Companies Act, 1956, for at least 3 out of the immediately preceding 5 years; Provided further that extraordinary items shall not be considered for calculating distributable profits in terms of section 205 of Companies Act, 1956;
- The aggregate of the proposed issue and all previous issues made in the same financial year in terms of size does not exceed five times its pre-issue net worth as per the audited balance sheet of the preceding financial year and
- In case the company has changed its name within the last one year, at least 50% of the revenue for the preceding one full year is earned by the company from the activity suggested by the new name.

In case the above mentioned conditions are not satisfied, an issuer can still make an IPO on compliance of the guidelines as specified:

1. issue should be made through the book building process with at least 50% of net offer to public being allotted to the QIBs, if not, then the full subscription monies has to be refunded,
OR
1. the project should have at least 15% of the cost of project contribution by public financial institutions or scheduled commercial banks of which at least 10% should come from the appraiser. In addition, at least 10% of the issue size should be allotted to QIBs, otherwise, the full subscription monies would be refunded;
AND
2. minimum post-issue face value capital of the company should be ₹ 10 crore,
OR
2. there should be compulsory market making for at least 2 years from the date of listing of securities subject to certain conditions as specified in the regulations.

A company can make an initial public offer of convertible debt instruments without making a prior public issue of its equity shares and can list the same.

Pursuant to a public issue, no allotment can be made if the number of prospective allottees is less than one thousand.

Credit Rating for Debt Instruments:

No public issue or rights issue of convertible debt instruments can be made unless a credit rating of not less than investment grade is obtained from at least one credit rating agencies registered with SEBI. In case the credit rating is obtained from more than one credit rating agencies, all the credit rating/s including the unaccepted credit ratings, should be disclosed. All the credit ratings obtained during the three years preceding the public or rights issue of debt instrument (including convertible instruments) for any listed security of the issuer company should be disclosed in the offer document.

IPO Grading:

No issuer should make an IPO of equity shares or any other security which may be converted into or exchanged with equity shares at a later date, unless the following conditions are satisfied as on the date of filing of Prospectus (in case of fixed price issue) or Red Herring Prospectus (in case of book built issue) with ROC.

- The issuer has obtained grading for the IPO from atleast one credit rating agency.
- Disclosures of all the grades obtained along with the rationale/description furnished by the credit rating agency(ies) for each of the grades obtained, have been made in the Prospectus (in case of fixed price issue) or Red Herring Prospectus (in case of book built issue)
- The expenses incurred for grading IPO have been borne by the unlisted company obtaining grading for IPO.



Every company obtaining grading for IPO should disclose the grades obtained, along with the rationale/description furnished by the credit rating agency(ies) for each of the grades obtained in the prospectus, abridged prospectus, issue advertisements and at all other places where the issuer company is advertising for the IPO.

Pricing of Public Issues:

An issuer may determine the price of specified securities, coupon rate and conversion price of convertible debt instruments in consultation with the lead merchant banker or through the book building process. An issuer making an initial public offer may determine the face value of equity shares subject to the provisions of the Companies Act, 1956, SEBI Act and regulations

If the issue price per equity share is ₹ 500 or more, the issuer shall have the option to determine the face value at below ₹10 per equity share, subject to the condition that the face value shall not be less than ₹ 1 per equity share. In case the issue price per equity share is less than ₹ 500 per equity share, the face value of the shares shall be ₹ 10 per equity share.

The above clause does not apply to initial public offer made by any government company, statutory authority or corporation or any special purpose vehicle set up by any of them, which is engaged in infrastructure sector.

The disclosure about the face value of equity shares (including the statement about the issue price being "X" times of the face value) shall be made in the advertisements, offer documents and application forms

Differential Pricing:

An issuer may offer equity shares and convertible securities at different prices; subject to the following condition;

- (a) the retail individual investors/shareholders or employees entitled for reservation making an application for equity shares and convertible securities of value not more than ₹2 lakh, may be offered equity shares and convertible securities at a price lower than the price at which net offer is made to other categories of applicants provided that such difference is not more than 10% of the price at which equity shares and convertible securities are offered to other categories of applicants;
- (b) in case of a book built issue, the price of the equity shares and convertible securities offered to an anchor investor cannot be lower than the price offered to other applicants;
- (c) in case of a composite issue , the price of the equity shares and convertible securities offered in the public issue may be different from the price offered in rights issue and justification for such price difference should be given in the offer document.
- (d) in case the issuer opts for the alternate method of book building, the issuer may offer specified securities to its employees at a price lower than the floor price. However, the difference between the floor price and the price at which equity shares and convertible securities are offered to employees should not be more than 10% of the floor price.

Price and price band:

The issuer can mention the price or price band in the draft prospectus (In case of a fixed price issue) and the floor price or price band in the red herring prospectus (in case of a book built issue) and determine the price at a later date before registering the prospectus with the Registrar of Companies which would require to contain only one price or the specific coupon rate, as the case may be.

The cap on the price band shall be less than or equal to 120 % of the floor price. The floor price or the final price shall not be less than the face value of the specified securities. The "cap on the price band" includes cap on the coupon rate in case of convertible debt instruments.

Contribution of Promoters and lock-in:

- The promoters' contribution in case of initial public offer should not be less than 20% of the post issue capital.
- In case of further public offer, promoters should contribute to the extent of 20% of the proposed issue or should ensure post-issue share holding to the extent of 20% of the post-issue capital.
- For a composite issue, the promoters' contribution should either be 20% of the proposed issue size or 20% of the post-issue capital.
- At least one day prior to the opening of the issue the promoters should bring in the full amount of the promoters contribution including premium which should be kept in an escrow account with a Scheduled Commercial Bank and the said contribution/amount should be released to the company along with the public issue proceed.



- The minimum promoters' contribution should be locked in for a period of 3 years in case of public issues, however. However, if the promoters' contribution exceeds the required minimum, then the excess is locked in for a period of one year.
- The lock-in period starts from the date of commencement of commercial production (the last date of the month in which commercial production in a manufacturing company is expected to commence as stated in the offer document) or date of allotment in the public issue, whichever is later.
- The entire pre-issue share capital, other than promoters that shall be locked for a period of one year. Securities allotted in firm allotment basis are also locked in for a period of one year from the date of commencement of commercial production or the date of allotment in the public issue whichever is later. The locked-in securities held by promoters may be pledged only with banks or public FIs as collateral security for loans granted by such banks or FIs.

Pre-Issue Obligations:

The lead merchant banker has to exercise due diligence and satisfy himself about all aspects of issue including offering, veracity and adequacy of disclosures in the offer document. The liability of the merchant banker will continue even after the completion of issue process.

The lead merchant banker has to pay the requisite fee in accordance with regulation 24A of the Securities and Exchange Board of India (Merchant bankers) Rules and Regulations, 1992 along with draft offer document filed with the Board. In case of a fast track issue, the requisite fee shall be paid along with the copy of the red herring prospectus, prospectus or letter of offer, as the case may be.

Each company issuing securities through public or rights issue has to enter into a Memorandum of Understanding with the lead merchant banker, which specifies their mutual rights, liabilities and obligations.

- The lead merchant banker responsible for drafting of the offer documents has to submit to the Board the copy of the MOU entered into with the issuer company and the draft of the offer document.
- In case a public or rights issue is managed by more than one merchant banker the rights, obligation and responsibilities of each merchant banker should be demarcated as specified in schedule I.
- In case of under subscription of an issue, the Lead Merchant Banker responsible for underwriting arrangements should invoke underwriting obligations and ensure that the notice for devolvement containing the obligations of the underwriters is issued in terms of the regulations as specified in schedule I.
- The lead Merchant Banker should furnish to the Board a due diligence certificate as specified in schedule IV, along with the draft offer document.
- In case of a fast track issue of convertible debt instruments the lead merchant banker should furnish a due diligence certificate to the Board as per the format specified in Schedule VI.

The lead merchant bankers should satisfy themselves about the ability of the underwriters to discharge their underwriting obligations. In respect of every underwritten issue, the lead merchant banker(s) should undertake a minimum underwriting obligation of 5% to the total underwriting commitment of ₹25 lakhs whichever is less. The outstanding underwriting commitments of a merchant banker should not exceed 20 times its net worth at any point of time. In respect of an underwritten issue, the lead merchant banker should ensure that the relevant details of underwriters are included in the offer document.

The draft offer documents filed with the Board should be made public for a period of 21 days from the date of filing the offer document with the Board and filed with the stock exchanges where the securities are proposed to be listed. Further, the draft offer documents should be put on the websites of the lead managers/syndicate members associated with the issue and also ensure that the contents of documents hosted on the websites are the same as that of their printed versions.

Twenty-one days after the draft offer document has been made public, the lead merchant banker should file a statement with the Board giving a list of complaints received, a statement as to whether it is proposed to amend the draft offer document or not, and highlighting those amendments.

The lead manager should also ensure that the issuer company has entered into agreements with all the depositories for dematerialization of securities.

An issuer company has to appoint a compliance officer who will directly liaise between the Board and the issuer company with regard to compliance of various laws, rules, regulations and other directives issued by the Board.



Post-Issue Obligations:

Subsequent to the post issue, the lead merchant banker should ensure that the post-issue monitoring reports are submitted irrespective of the level of subscription. Also, the merchant banker should be associated with allotment, refund and dispatch and also monitor the redressal of investor grievances arising therefrom.

In a public issue, the Executive Director/Managing Director of the Designated Stock Exchange along with the post issue lead merchant banker and the registrars to the Issue are responsible for the finalization of allotment in a fair and proper manner as specified in Schedule XV.

The lead merchant banker should ensure that the dispatch of share certificates/refund orders and demat credit is completed and the allotment and listing documents submitted to the stock exchanges within 2 working days of the date of allotment.

Credit Rating:

Credit rating agencies (CRA) can be promoted by public financial institutions, scheduled commercial banks, foreign banks operating in India, by any body corporate having continuous minimum net worth of ₹100 crore for the previous five years. Further, foreign credit rating agencies recognized by or under any law for the time being in force in the country of its incorporation, having at least five years experience in rating securities can also operate in the country. The SEBI (Credit Rating Agencies) Regulations, 1999 cover the rating of the securities listed and not fixed deposits, foreign exchange, country ratings and real estates. No company can make a public issue or rights issue of debt instruments (whether convertible or not), unless credit rating is obtained from at least one credit rating agency registered with the Board and disclosed in the offer document. Where ratings are obtained from more than one credit rating agencies, all the ratings including the unaccepted ratings should be disclosed in the offer document.

Merchant Banking:

The merchant banking activity in India is governed by SEBI (Merchant Bankers) Regulations, 1992. Consequently, all the merchant bankers have to be registered with SEBI. The details about them are presented in the table below:

Category of Merchant Banker	Permitted Activity
Category I	To carry on activity of the issue management, to act as adviser, consultant, manager, underwriter, portfolio manager
Category II	To act as adviser, consultant, co-manager, underwriter, portfolio manager
Category III	To act as underwriter, adviser, consultant to an issue
Category IV	To act only as adviser or consultant to an issue

Only a corporate body other than a non-banking financial company having necessary infrastructure, with at least two experienced persons employed can apply for registration as a merchant banker. The capital adequacy requirement should be a net worth of Rupees 50 million. The regulations cover the code of conduct to be followed by merchant bankers, responsibilities of lead managers, payments of fees and disclosures to SEBI.

Demat issues:

SEBI has mandated that all new IPOs compulsorily should be traded in dematerialised form only. Further, the section 68B of the Companies Act, 1956, requires that every listed public company making IPO of any security for ₹ 10 crore or more should issue the same only in dematerialised form. The investors, however, would have the option of either subscribing to securities in physical or dematerialised form.

Private Placement:

The private placement involves issue of securities, debt or equity, to selected subscribers, such as banks, FIs, MFs and high net worth individuals. It is arranged through a merchant/investment banker, who acts as an agent of the issuer and brings together the issuer and the investor(s). Since these securities are allotted to a few sophisticated and experienced investors, the stringent public disclosure regulations and registration requirements are relaxed. The Companies Act, 1956, states that an offer of securities to more than 50 persons is deemed to be public issue.

Market Outcome

Public and Rights Issues

Resource Mobilisation

During 2009-10, resources mobilised from public and rights issues increased by 254.84 % to ₹575,552 million (US \$ 12,750 million) in comparison to ₹ 162,200 million (US \$ 3,184 million) in 2008-09. 76 companies accessed the primary market through 47 public issues and 29 rights issues. The 47 public issues comprised of 39 equity instruments of Initial public offerings (IPOs), five equity instruments of FPO and three Non convertible debenture (NCD). The primary market exhibited a stellar performance by coming out with 39 IPOs in 2009-10 compared to 21 issues in the previous year. The amount of capital raised through IPOs was up by 1085.60 % at ₹ 246,961 million (US \$ 5,471 million) from ₹ 20,820 million (US \$ 409 million) in 2008-09. In first two quarters of FY2011, companies have raised ₹ 137,414 million with an average issue size of US \$ 98.20 million compared to an issue size of US \$ 140.28 million in 2009-10. Considering the outstanding performance of the primary market, the capital raising activity in the FPOs market has been a quite subdued. Though market has seen two companies raising capital through FPOs in the first six months of FY2011 against five FPOs in 2009-10, the average issue size has dwindled down to US \$ 111.97 million from US \$ 976.54 million in 2009-10.

Table 2-2: Resource Mobilisation from Public and Rights Issues

Issue	2008-09			2009-10			(Apr'10 - Sep'10)		
	Number	Amount (₹ mn)	Amount (US \$ mn)	Number	Amount (₹ mn)	Amount (US \$ mn)	Number	Amount (₹ mn)	Amount (US \$ mn)
1. Public Issues (i) + (ii)	22	35,830	703	47	492,366	10,908	34	152,523	3,378.89
i. Public Issues	21	20,830	409	44	467,366	10,354	33	147,523	3,268.12
Public Issues (IPO)	21	20,830	409	39	246,961	5,471	31	137,414	3,044
Public Issues (FPO)	-	-	-	5	220,405	4,883	2	10,109	224
ii. Public Issues (Bond/NCD)	1	15,000	294	3	25,000	554	1	5,000	110.77
2. Rights Issues	25	126,370	2,480	29	83,186	1,843	10	34,890	773
Total (1 + 2)	47	162,200	3,184	76	575,552	12,750	44	187,413	4,151.82

Source: SEBI

– Nil / Negligible

All offers for sale are initial public offers, hence are already counted under IPOs.

During the period Apr-Sep 2010, private issuers have raised ₹ 161,360 million – a 49.68% of the resources what they have mobilised in 2009-10, whereas public issuers have remained dormant as they raised ₹ 26,050 million – 10.39% of capital mobilised through the public issues in 2009-10.

Table 2-3: Sector-wise Distribution of Resources Mobilised

Sector	2008-09		2009-10		Apr'10 - Sep'10	
	Number	Amount (₹ mn)	Number	Amount (₹ mn)	Number	Amount (₹ mn)
Private	47	162,200	71	324,770	41	161,360
Public	--	--	5	250,780	3	26,050
Total	47	162,200	76	575,550	44	187,410

Source: SEBI

– Nil

This includes issues and rights issues.



Industry-wise distribution, Size wise distribution

The power sector contributed the maximum share of 43.95 % of the total resources mobilized during 2009-10 with six issues mobilizing ₹ 252,930 million. The banking sector is at the leading position in the league table with ₹ 36,340 million, accounting for 19.39 % of the total resources mobilized in the first six months of FY2011. In 2009-10 the banking sector contributed 5.45% to the total resources. Over the years a range of industries have emerged as the major contributors of resources mobilized.

Table 2-4: Industry-wise Distribution of Resources Mobilised

Industry	2008-09			2009-10			Apr'10 - Sep'10		
	Number	Amount (₹ Mn)	Percentage Share	Number	Amount (₹ Mn)	Percentage Share	Number	Amount (₹ Mn)	Percentage Share
Banking/FIs	0	-	0.00	6	31,380	5.45	4	36,340	19.39
Cement & Construction	3	800	0.49	8	27,800	4.83	2	27,920	14.90
Chemical	4	2,180	1.34	1	360	0.06	3	1,380	0.74
Electronics	0	-	0.00	1	11,560	2.01	0	-	0.00
Engineering	0	-	0.00	1	500	0.09	4	13,440	7.17
Entertainment	2	11,560	7.13	9	24,610	4.28	2	6,200	3.31
Finance	3	19,660	12.12	2	18,260	3.17	2	17,760	9.48
Food Processing	0	-	0.00	2	4,430	0.77	1	12,450	6.64
Healthcare	3	1,440	0.89	3	10,590	1.84	2	2,770	1.48
Information Technology	1	420	0.26	6	5,400	0.94	0	-	0.00
Paper & Pulp	0	-	0.00	1	350	0.06	0	-	0.00
Power	2	9,580	5.91	6	252,930	43.95	3	20,260	10.81
Telecom	2	1,000	0.62	0	-	0.00	0	-	0.00
Textile	5	7,100	4.38	3	2,370	0.41	1	1,080	0.58
Others	22	108,460	66.87	27	185,010	32.14	20	47,810	25.51
Total	47	162,200	100.00	76	575,550	100.00	44	187,410	100.00

Source: SEBI

Table 2-5 exhibits the size wise distribution of public and rights issues during 2009-10. About 97.81 % of resource mobilization was through public issues of issue size above ₹ 100 crore. In terms of number of issues however there were only 45 issues out of 76 above ₹ 100 crore.

Table 2-5: Size wise distribution of Resources Mobilised

Issue Size	2008-09			2009-10			Apr'10 - Sep'10		
	Number	Amount (₹ Mn)	Percentage Share	Number	Amount (₹ Mn)	Percentage Share	Number	Amount (₹ Mn)	Percentage Share
< ₹ 5 crore	1	30	0.02	1	20	0.00	0	-	0.00
≥ ₹ 5 crore & < ₹ 10 crore	1	70	0.04	3	240	0.04	1	50	0.03
≥ ₹ 10 crore & < ₹ 50 crore	21	5,090	3.14	18	5,960	1.04	4	1,500	0.80
≥ ₹ 50 crore & < ₹ 100 crore	6	4,450	2.74	9	6,360	1.11	12	8,260	4.41
≥ ₹ 100 crore	18	152,550	94.06	45	562,980	97.81	27	177,600	94.77
Total	47	162,190	100.00	76	575,560	100.00	44	187,410	100.00

Source: SEBI

There were 45 mega issues (₹ 3,000 million and above) during Apr'09 - Sep'10, the largest being the FPO issue of NMDC Limited (₹ 99,673 million) followed by the FPO issue of NTPC Limited (₹ 84,788 million). The 45 mega issues mobilized 90.62 % of the total resources raised.

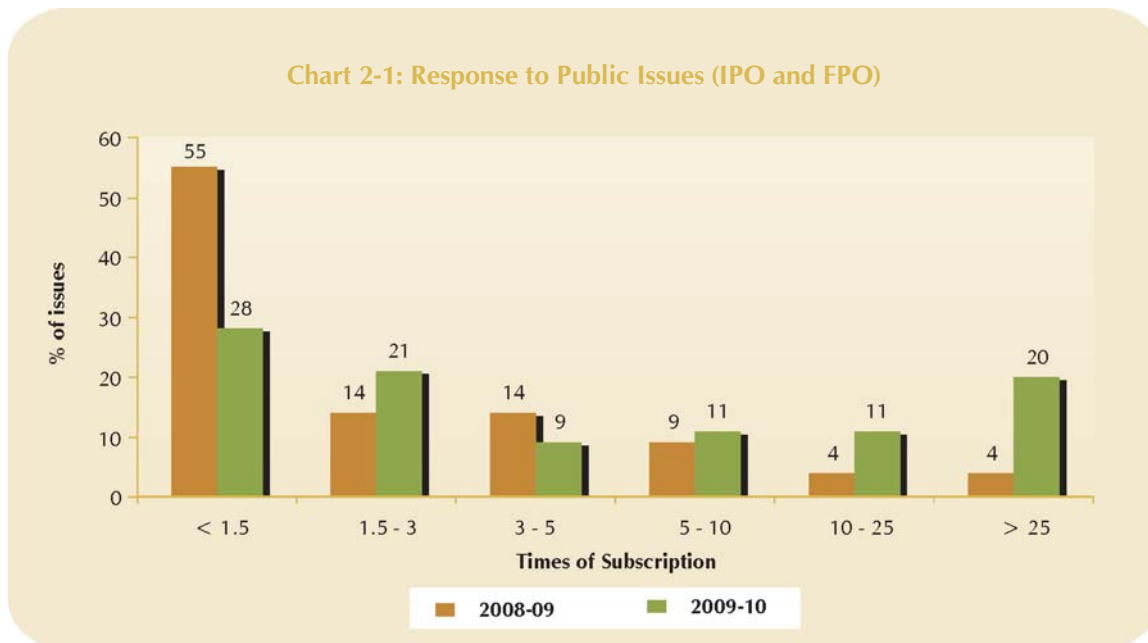
Table 2-6: Mega Issues in 2009-10

Name of the Company	Type of Issue	Type of instrument	Issue open date	Offer Size (₹ Mn.)	Percentage Share in the Grand Total
Shriram Transport Finance Limited	Public	NCD	27-Jul-09	10,000	1.31
Adani Power Limited	IPO	Equity	28-Jul-09	30,165	3.95
NHPC Limited	IPO	Equity	7-Aug-09	60,386	7.91
L&T Finance Limited	Public	NCD	18-Aug-09	10,000	1.31
Oil India Limited	IPO	Equity	7-Sep-09	27,773	3.64
Pipavav Shipyard Limited	IPO	Equity	16-Sep-09	4,987	0.65
The Tinplate Company of India Limited	Rights	Rights & FCDs	17-Sep-09	3,743	0.49
Television Eighteen India Limited	Rights	Equity	29-Sep-09	5,041	0.66
Wire and Wireless India Limited	Rights	Equity	29-Sep-09	4,499	0.59
Fortis Healthcare Limited	Rights	Equity	30-Sep-09	9,971	1.31
Indiabulls Power Limited	IPO	Equity	12-Oct-09	15,291	2.00
Den Networks Limited	IPO	Equity	28-Oct-09	3,645	0.48
Cox & Kings (India) Limited	IPO	Equity	18-Nov-09	6,104	0.80
D. B. Corp. Ltd.	IPO	Equity	11-Dec-09	3,842	0.50
JSW Energy Limited	IPO	Equity	7-Dec-09	27,000	3.54
Godrej Properties Limited	IPO	Equity	9-Dec-09	4,689	0.61
Jubilant Foodworks Limited	IPO	Equity	18-Jan-10	3,287	0.43
DB Realty Limited	IPO	Equity	29-Jan-10	15,000	1.97
Religare Enterprises Limited	Rights	Equity	1-Feb-10	18,143	2.38
NTPC Limited	FPO	Equity	3-Feb-10	84,788	11.11
Hathway Cable & Datacom Limited	IPO	Equity	9-Feb-10	6,660	0.87
L&T Finance Limited	Public	NCD	9-Feb-10	5,000	0.66
REC Limited	FPO	Equity	19-Feb-10	35,299	4.63
United Bank of India	IPO	Equity	23-Feb-10	3,250	0.43
NMDC Ltd	FPO	Equity	10-Mar-10	99,673	13.06
IBN18 Broadcast Ltd	Rights	Equity	10-Mar-10	5,095	0.67
IL&FS Transportation Networks Ltd	IPO	Equity	11-Mar-10	7,000	0.92
Shree Ganesh Jewellery House Ltd.	IPO	Equity	19-Mar-10	3,710	0.49
Videocon Industries Ltd.	Rights	Equity	29-Mar-10	11,563	1.52
Adani Enterprises Ltd	Rights	Equity	31-Mar-10	14,785	1.94
Nitesh Estates Ltd.	IPO	Equity	23-Apr-10	4,050	0.53
SJVN Ltd.	IPO	Equity	29-Apr-10	10,627	1.39
JP Infratech Ltd.	IPO (Fresh + OFS)	Equity	29-Apr-10	22,576	2.96
Standard Chartered PLC	IPO	IDR	25-May-10	24,863	3.26
Suzlon Energy Ltd	Rights	Equity	18-Jun-10	13,077	1.71
REI Agro Ltd	Rights	Equity	30-Jun-10	12,454	1.63
Engineers India Ltd.	FPO	Equity	27-Jul-10	9,590	1.26
SKS Microfinance Limited	IPO	Equity	28-Jul-10	16,288	2.13
Gujarat Pipavav Port Limited	IPO	Equity	23-Aug-10	5,539	0.73
Indosolar Limited	IPO	Equity	13-Sep-10	3,570	0.47
State Bank of Mysore	Rights	Equity	15-Sep-10	5,830	0.76
Eros International Media Ltd.	IPO	Equity	17-Sep-10	3,500	0.46
Orient Green Power Co Ltd	IPO	Equity	21-Sep-10	9,000	1.18
Ramky Infrastructure Ltd	IPO	Equity	21-Sep-10	5,300	0.69
Va Tech Wabag Ltd	IPO (Fresh + OFS)	Equity	22-Sep-10	4,730	0.62
Total - Mega Issues (₹ Mn.)				691,382	90.62
Grand Total-Resource Mobilisation from Public and Rights Issues (₹ Mn.)				762,970	100

Source: SEBI



The Prime Annual Report captures the response to public issues to Indian Public, which is presented in the following chart. The public issues managed to generate a good euphoria amongst the investors, which can be seen from the fact that 42% of the issues were subscribed more than 5 times as a result of underpricing compared to 17% in 2008-09. Only 28 % of the public issues were subscribed less than 1.5 times in comparison to 55 % in the previous fiscal year. The most subscribed issues during 2009-10 were Persistent Systems Ltd., which was over subscribed 92.86 times followed by DQ Entertainment Ltd. which was over-subscribed 69.61 times. Merchant bankers are getting a good response to IPO Application Supported by Blocked Amount (ASBA) from retail investors, as it contributed to 10.61% of the total retail amount collection for 2009-10.



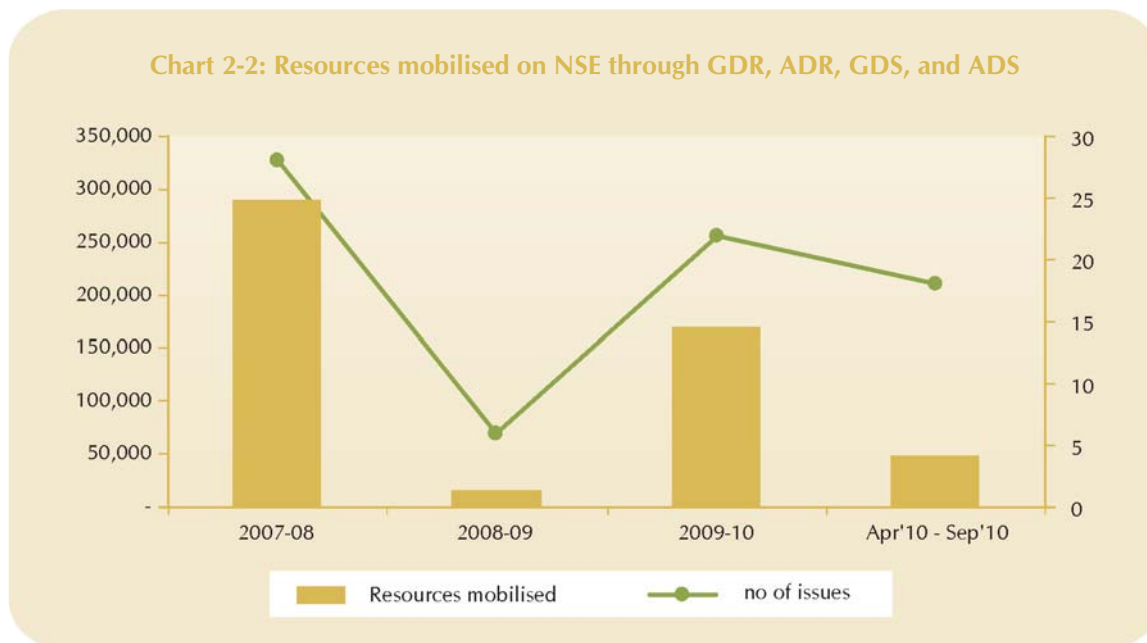
Source: Prime Database (includes only public issues and not rights issues)

Euro Issues

Indian companies raise resources from international markets through the issue of Foreign Currency Convertible Bonds (FCCBs) and also through GDRs, ADRs, GDS, ADS which are similar to Indian shares and are traded on overseas stock exchanges. In India, they are reckoned as part of foreign direct investment and hence, need to conform to the existing FDI policy.

During 2009-10, there was a steep rise in the resources mobilised through Euro issues, that increased to ₹ 159,670 million (US \$ 3,537 million) for 2009-10 as against ₹ 47,880 million (US \$ 940 million) raised during 2008-09. (Table 2-1).

The resources mobilized by the companies listed on NSE through GDRs, ADRs, GDSs and ADSs also witnessed a jump from ₹ 15,418 million (US \$ 303 million) in 2008-09 to ₹ 170,539 million (US \$ 3,778 million) in 2009-10. In current fiscal year 18 companies have mopped up ₹ 48,866 million collectively with an average issue size of ₹ 2,715 million, 65% down from issue size of ₹ 7,752 million in 2009-10.



Source: NSE

StanChart - India's first Indian Depository Receipt (IDR)

Standard Chartered PLC was the first foreign company to be listed on Indian stock exchanges through an IDR route. An IDR is rupee-denominated instrument in the form of a depository receipt created by a Domestic Depository (custodian of securities registered with the Securities and Exchange Board of India) against the underlying equity of issuing company to enable foreign companies to raise funds from the Indian securities markets. Investors will receive depository receipts in dematerialised form and each receipt will represent a certain number of shares.

IDRs are used as a medium to own an interest in a foreign company and can be listed on the stock exchanges. Investors would have an exposure to the global business of the foreign company and not only the Indian business. For example, the exposure would be to Standard Chartered PLC (global company) and not just Standard Chartered Bank India (the Indian business). An IDR is a mechanism that allows investors in India to invest in listed foreign companies, including multinational companies, in Indian rupees.

Pursuant to the current SEBI Regulations and the RBI Circular, IDRs may be held, purchased or transferred by Retail Individual Bidders, non-institutional bidders and qualified institutional bidders including persons resident in India, NRIs and FIIs, including SEBI approved sub-accounts of FIIs registered with SEBI, or to, or for the account or benefit of, such persons, in each case subject to applicable laws. Insurance companies are not permitted to invest in or hold IDRs. Commercial banks may invest or hold IDRs subject to compliance with applicable prudential limits specified by the RBI from time to time.

The IDRs are represented by Dematerialised IDRs evidenced by the Register maintained or procured to be maintained by the Depository showing the latest available registered holding position received from NSDL and CDSL. NSDL and CDSL will credit the dematerialised account of an IDR Holder with the relevant number of IDRs held by that IDR Holder.

Performance of Initial Public Offerings (IPOs) listed on NSE

During 2009-10, ₹ 236,835 million (US \$ 5,246 million) were raised through the thirty three IPOs listed on NSE. They were from the various sectors viz. Finance, Infrastructure, Manufacturing and Information technology. L&T Finance Ltd. came out with an IPO of non-convertible Debentures (NCD) mobilizing ₹ 10,000 million (US \$ 196 million). Out of those thirty three IPOs excluding NCDs twenty two issues had reported listing gains and nineteen had managed to close in green by end of 2009-10. Around eleven IPOs showed negative returns on the first day of trading and ten IPOs showed negative returns by the year end March 2010 as compared to their issue price. The IPO of ARSS Infrastructure



Projects Limited marked its outperformance with listing gains of 63.88 % on its first day of trading and IPO of Jubilant Foodworks Limited rewarded its shareholders with a whopping 116.28 % increase in price over the issue price at the end of March 10.

During Apr'10 – Sep'10 ₹ 107,967 million (US \$ 2,404 million) were raised through the twenty one IPOs listed on NSE. Out of those twenty one IPOs, eighteen issues had reported listing gains, but just nine had managed to close in green by end of Sep'10. The IPO of Gujarat Pipavav Port Limited got listed with listing gains of 21.96 %, whereas IPO of Mandhana Industries Ltd. rewarded its shareholders with price appreciation of 51.50 % over the issue price, till Sep'10.

Table: 2-8: Performance of IPOs listed on NSE during Apr 2010 to Sep 2010

Sr. No.	Company Name	Sector	Issue size (₹ mn.)	Date of Listing	Issue Price (₹ mn.)	Listing price (₹)	Close Price at end of Sep 2010	Price Appreciation/ Depreciation on the first day of trading with the issue price	Price Appreciation/ Depreciation at end Sep 2010 with the issue price
1	Pradip Overseas Limited	Manufacturing	1166	5-Apr-10	110	115	80.40	4.55%	-26.91%
2	Persistent Systems Limited	Information Technology	1680.1	6-Apr-10	310	361.6	446.35	16.65%	43.98%
3	Shree Ganesh Jewellery House Limited	Manufacturing	3710.2	9-Apr-10	260	250	171.35	-3.85%	-34.10%
4	Intrasoft Technologies Limited	Information Technology	536.5	12-Apr-10	145	150	97.55	3.45%	-32.72%
5	Goenka Diamond and Jewels Limited	Manufacturing	1265.1	16-Apr-10	135	124	106.25	-8.15%	-21.30%
6	Talwalkars Better Value Fitness Ltd.	Services	774.4	10-May-10	128	147.95	230.25	15.59%	79.88%
7	Nitesh Estates Ltd.	Infrastructure	4050	13-May-10	54	54	44.40	0.00%	-17.78%
8	Tarapur Transformers Ltd.	Manufacturing	637.5	18-May-10	75	75	35.10	0.00%	-53.20%
9	Mandhana Industries Ltd.	Manufacturing	1079	19-May-10	130	131	196.95	0.77%	51.50%
10	SJVN Ltd.	Infrastructure	10627.4	20-May-10	26	27.1	24.15	4.23%	-7.12%
11	JP Infratech Ltd.	Infrastructure	22576.1	21-May-10	102	98	92.95	-3.92%	-8.87%
12	Standard Chartered PLC	Bank	24863.4	11-Jun-10	104	106	119.40	1.92%	14.81%
13	Parabolic Drugs Limited	Pharmaceuticals	2000	1-Jul-10	75	75	57.45	0.00%	-23.40%
14	Technofab Engineering Limited	Engineering	716.6	16-Jul-10	240	276	235.00	15.00%	-2.08%
15	Hindustan Media Ventures Limited	Media & Entertainment	2700	21-Jul-10	166	177.95	191.05	7.20%	15.09%
16	Aster Silicates Limited	Manufacturing	531	28-Jul-10	118	128.05	52.65	8.52%	-55.38%
17	SKS Microfinance Limited	Finance	16287.8	16-Aug-10	985	1040	1,337.35	5.58%	35.77%
18	Bajaj Corp Limited	FMCG	2970	18-Aug-10	660	760	697.75	15.15%	5.72%
19	Prakash Steelage Limited	Manufacturing	687.5	25-Aug-10	110	122	164.50	10.91%	49.55%
20	Gujarat Pipavav Port Limited	Services	5538.5	9-Sep-10	46	56.1	60.55	21.96%	31.63%
21	Indosolar Limited	Manufacturing	3570	29-Sep-10	29	29.5	24.45	1.72%	-15.69%

Initial Public Offerings (IPOs) of NCDs during 2009-10

Sr. No.	Company Name & Series	Sector	Issue size	Date of Listing	Issue Price	#REF!	Close Price at end of March 2010	Price Appreciation/Depreciation on the first day of trading	Price Appreciation/Depreciation at end March 2010
			(₹ mn.)						
1	L&TFINANCE-Series N1	FINANCE	1066.38	24-Sep-09	1000	1,029.90	1,036.00	2.99	3.60
	L&TFINANCE-Series N2		2963.48	24-Sep-09	1000	1,030.00	1,034.00	3.00	3.40
	L&TFINANCE-Series N3		1263.20	24-Sep-09	1000	1,044.00	1,111.00	4.40	11.10
	L&TFINANCE-Series N4		4706.94	24-Sep-09	1000	1,038.00	1,054.01	3.80	5.40

Source: NSE

There were no IPOs during the period April - March 09

Book Building through On-line IPO System

Book building is basically a process used in IPO for efficient price discovery, wherein during the period when the offer is open, bids are collected from investors at various prices, which are above or equal to the floor price. The offer price is determined after the bid closing date. In its endeavour to continuously improve the Indian securities market, NSE has offered an infrastructure for conducting online IPOs through book building. It helps to discover prices as well as demand for the security to be issued through a process of bidding. The advantages are: (a) the investor parts with money only after the allotment (b) it eliminates refunds except in case of direct applications and (c) it reduces the time taken to process the issue. The ranking of collecting merchant bankers based on the amount collected by them for issues offered to Indian public during 2009-10 is in table 2-9. According to the league table HDFC Bank and ICICI Bank has managed to hold on to their top positions, whereas Standard Chartered Bank has successfully captured third post from Axis Bank.

Table 2-9: League Table of Collecting Bankers

Rank 2008-09	Rank 2009-10	Bank	Amount Collected (₹ millions)	% of Total
1	1	HDFC Bank Ltd.	352,749	23.06%
2	2	ICICI Bank Ltd.	338,006	22.10%
6	3	Standard Chartered Bank Ltd.	211,565	13.83%
8	4	Kotak Mahindra Bank Ltd.	161,477	10.56%
7	5	HSBC Ltd.	111,223	7.27%
3	6	Axis Bank Ltd.	95,148	6.22%
5	7	ABN Amro Bank N.V.	80,220	5.24%
16	8	State Bank of India	64,345	4.21%
13	9	IDBI Bank Ltd.	59,340	3.88%
14	10	Yes Bank Ltd.	14,231	0.93%
		Total	1,529,656.57	

Source: Prime Database

Debt Issues

Government and corporate sector collectively raised a total of ₹ 8,155,967 million (US \$ 180,682 million) from primary market during 2009-10. About 76.46% has been raised by the Government, while the balance by the corporate sector through private placement.



Table 2-7: Performance of IPOs listed on NSE during Apr 2009 to Mar 2010

Sr. No.	Company Name	Sector	Issue size (₹ mn.)	Date of Listing	Issue Price (₹)	Listing price (₹)	Close Price at end of March 2010	Price Appreciation/Depreciation on the first day of trading with the issue price	Price Appreciation/Depreciation at end March 2010 with the issue price
1	Mahindra Holidays & Resorts India Limited	Services	2779.58	16-Jul-09	300	317.45	544.70	5.82%	81.57%
2	Excel Infoways Limited	Services	481.70	3-Aug-09	85	95.85	39.55	12.76%	-53.47%
3	Raj Oil Mills Limited	Manufacturing	1140.00	12-Aug-09	120	119.25	59.75	-0.62%	-50.21%
4	Adani Power Limited	Infrastructure	30165.20	20-Aug-09	100	100.10	116.00	0.10%	16.00%
5	NHPC Limited	Infrastructure	60385.46	1-Sep-09	36	36.75	30.45	2.08%	-15.42%
6	Jindal Cotex Limited	Manufacturing	934.28	22-Sep-09	75	87.30	81.00	16.40%	8.00%
7	Globus Spirits Limited	FMCG	750.00	23-Sep-09	100	91.00	135.35	-9.00%	35.35%
8	Oil India Limited	Petrochemicals	27772.48	30-Sep-09	1050	1,141.20	1,154.75	8.69%	9.98%
9	Pipavav Shipyard Limited	Services	4986.60	9-Oct-09	58	56.70	70.20	-2.24%	21.03%
10	Euro Multivision Limited	Information Technology	660.00	15-Oct-09	75	53.55	24.10	-28.60%	-67.87%
11	Thinksoft Global Services Limited	Information Technology	455.75	26-Oct-09	125	164.40	189.55	31.52%	51.64%
12	Indiabulls Power Limited	Infrastructure	15291.00	30-Oct-09	45	39.50	30.75	-12.22%	-31.67%
13	Den Networks Limited	Media & Entertainment	3644.50	24-Nov-09	195	163.40	195.75	-16.21%	0.38%
14	Astec LifeSciences Limited	Petrochemicals	615.01	25-Nov-09	82	84.00	49.15	2.44%	-40.06%
15	Cox And Kings (India) Limited	Services	6103.89	11-Dec-09	330	425.40	481.35	28.91%	45.86%
16	JSW Energy Limited	Infrastructure	26577.30	4-Jan-10	100	100.85	111.85	0.85%	11.85%
17	Godrej Properties Limited	Infrastructure	4688.50	5-Jan-10	490	537.25	511.55	9.64%	4.40%
18	D. B. Corp Limited	Services	3842.20	6-Jan-10	212	265.90	239.90	25.42%	13.16%
19	MBL Infrastructures Limited	Infrastructure	1026.00	11-Jan-10	180	206.55	226.20	14.75%	25.67%
20	Infinite Computer Sol Ltd	Information Technology	1898.3831	3-Feb-10	165	191.80	190.70	16.24%	15.58%
21	Jubilant Foodworks Limited	Manufacturing	3287.22	8-Feb-10	145	229.10	313.60	58.00%	116.28%
22	Syncom Healthcare Limited	Pharmaceuticals	562.50	15-Feb-10	75	87.75	120.60	17.00%	60.80%
23	Vascon Engineers Ltd	Manufacturing	1782.00	15-Feb-10	165	148.05	154.90	-10.27%	-6.12%
24	Thangamayil Jewellery Ltd	Miscellaneous	287.53	19-Feb-10	75	71.05	81.55	-5.27%	8.73%
25	Aqua Logistics Ltd	Services	1521.57	23-Feb-10	220	244.60	271.05	11.18%	23.20%
26	D B Realty Limited	Infrastructure	15000.00	24-Feb-10	468	456.20	453.85	-2.52%	-3.02%
27	Emmbi Polyrans Ltd	Miscellaneous	389.60	24-Feb-10	45	28.75	20.65	-36.11%	-54.11%
28	Hathway Cable & Datacom	Media & Entertainment	6660.00	25-Feb-10	240	207.65	207.50	-13.48%	-13.54%
29	ARSS Infrastructure Projects Limited	Infrastructure	1030.15	3-Mar-10	450	737.45	928.10	63.88%	106.24%
30	Texmo Pipes and Products Limited	Manufacturing	450.00	10-Mar-10	90	137.15	91.95	52.39%	2.17%
31	Man Infraconstruction Limited	Infrastructure	1417.55	11-Mar-10	252	349.85	358.75	38.83%	42.36%
32	United Bank of India	Bank	3249.80	18-Mar-10	66	68.65	68.80	4.02%	4.24%
33	IL&FS Transportation Networks Limited	Services	7000.00	30-Mar-10	258	274.65	278.35	6.45%	7.89%

Source: NSE



Table 2-10: Resources Raised from Debt Markets

Issuer	(₹ mn.)			(US\$. mn.)		
	2008-09	2009-10	Apr'10 - Sep'10	2008-09	2009-10	Apr'10 - Sep'10
Corporate	1,758,267	1,919,777	1,076,772	34,510	42,529	23,971
Public Issues	15,000	25,000	5,000	294	554	111
Private Placement*	1,743,267	1,894,777	1,071,772	34,215	41,976	23,860
Government	4,366,880	6,236,190	-	85,709	138,152	-
Total	6,125,147	8,155,967	1,076,772	120,219	180,682	23,971

Source: Prime Data base (for Private placement) SEBI for Public issues & RBI Annual Report 2009-10 (for Government debt).

- : Nil / Negligible

* Only debt placements with a tenor and put / call option of 1 year or more.

Private Placement of Debt

According to Prime Annual Report, a total of 192 issuers (institutional and corporates) raised ₹ 1,894,777 million (US \$ 41,976 million) through 803 privately placed issues in 2009-10.

Response to most of the issues was good as 284 issues out of 803 issues i.e around 35.37% of the total issues were made by the government sector units, which mobilized 70.88% of the total. During the period Apr-Sep 2010, there were 127 issuers who placed 467 issues amounting to ₹ 1,071,772 million (US \$ 23,860 million). The amount raised through the private placement of debt issues have been on an increasing trend over the past few years.

Table 2-11: Private Placement - Institutional & Corporate Debt

Year	No. of issuers	No. of Privately Placed issues	Resource Mobilisation through Private Placement of Debt (₹ mn)	Resource Mobilisation through Private Placement of Debt (US\$.million)
1995-96	47	73	100,353	2,921
1996-97	159	204	183,908	5,126
1997-98	151	253	309,833	7,838
1998-99	204	444	386,427	9,107
1999-00	229	711	550,734	12,626
2000-01	214	603	524,560	11,247
2001-02	204	557	454,269	9,309
2002-03	171	485	484,236	10,194
2003-04	140	364	484,279	11,161
2004-05	117	321	554,088	12,665
2005-06	99	366	818,466	18,347
2006-07	98	500	938,552	21,531
2007-08	104	613	1,152,661	28,838
2008-09	167	799	1,743,267	34,215
2009-10	192	803	1,894,777	41,976
Apr-Sep 2010	127	467	1,071,772	23,860

Source: Prime Database



Mostly, debt securities were privately placed. Though, there were some instances of private placements of equity shares, there is no comprehensive data coverage of this. The two sources of information regarding private placement market in India are Prime database and RBI. The former data set, however, pertains exclusively to debt issues. RBI data, which is compiled from information gathered from arrangers, covers equity private placements also. RBI estimates the share of equity in total private placements as rather insignificant. Some idea, however, can be derived from the equity shares issued by NSE-listed companies on private placement basis.

Table 2-12: Issuer wise distribution of private placement of debt

Issuer	Issue Amount (₹ mn.)			Issue Amount (US \$.mn.)			% of Issue Amount		
	2008-09	2009-10	Apr-Sep 2010	2008-09	2009-10	Apr-Sep 2010	2008-09	2009-10	Apr-Sep 2010
All India Financial Institutions/Banks	1,028,864	1,085,223	683,143	20,194	24,041	15,208	59.02	57.27	63.74
State Financial Institutions	2,540	13,372	991.9	50	296	22	0.15	0.71	0.09
Public Sector Undertakings	118,145	223,555	73,550	2,319	4,952	1,637	6.78	11.80	6.86
State Level Undertakings	47,382	20,846	4,965	930	462	111	2.72	1.10	0.46
Private Sector	546,337	551,781	309,122	10,723	12,224	6,882	31.34	29.12	28.84
Total	1,743,267	1,894,777	1,071,772	34,215	41,976	23,860	100.00	100.00	100.00

Source: Prime Database



Source: Prime Database

Sectoral distribution shows that the banking & financial services sector continued to dominate the private placement market, raising 70.22% in 2009-10, followed by power sector, which accounted for 8.69% during the year.

Table 2-13: Sectoral Distribution of Resources Mobilised by Private Placement

(In percentage)

Sector	2008-09	2009-10	Apr-Sep 2010
Banking	52.73	49.49	50.56
Financial Services	17.97	20.73	24.78
Power	7.27	8.69	7.64
Roads & Highways	0.89	1.78	4.67
Travel/Transportation	-	0.72	0.42
Telecommunications	2.50	1.68	0.60
Others	18.65	16.90	11.34
Total	100.00	100.00	100.00

Source: Prime Database

The maturity profile of issues in the private placement market ranged between 12 months to 240 months during 2009-10. The largest number of placements was for 36 months (145 placements) and 120 months (117 placements). A total of 62 offers had put option, while 130 offers had call option. Rating is however required for listing. Of the 803 debt private placements deals during 2009-10, 784 issues (98%) went for credit rating while 18 did not.

Corporate Sector

There is a preference for raising resources in the primary market through debt instruments and private placement of debt has emerged as the major route for raising resources.

During 2009-10, total resources raised by the corporate sector decreased by 29.64% to ₹ 2,470,329 million (US \$ 54,726 million) as compared with gross mobilization of ₹ 1,905,457 million (US \$ 37,399 million). The equity route was used to raise 18.92 % of the total resources through public equity shares. The share of rights issue was 3.37 %. The resources raised through the debt issues (debt public issues and debt private placements) were 76.70 %.

Table 2-14: Resources Raised by Corporate Sector

Year	Public Equity Issues (₹ mn)	Rights Issues (₹ mn)	Debt Public Issues (₹ mn)	Debt Private Placements (₹ mn)	Total Resource Mobilisation (₹ mn)	Total Resource Mobilisation (US \$ mn.)	Percentage Share in the Total Resource Mobilisation			
							Public Equity issues	Rights Issue	Debt Public Issues	Debt Private Placements
	1	2	3	4						
2007-08	522,190	325,180	10,000	1,152,661	2,010,031	50,288	25.98	16.18	0.50	57.35
2008-09	20,830	126,370	15,000	1,743,267	1,905,467	37,399	1.09	6.63	0.79	91.49
2009-10	467,366	83,186	25,000	1,894,777	2,470,329	54,726	18.92	3.37	1.01	76.70
Apr-Sep 2010	147,523	34,890	5,000	1,071,772	1,259,185	28,032	11.72	2.77	0.40	85.12

Source: Prime Data base (for Private placement) SEBI for Public issues and Right issues

Notes : Only debt placements with a tenor and put / call option of 1 year or more.



Annexure 2-1: Details of Private Placement Issues in the equity segment by NSE – listed companies during the period April 01, 2009 to September 30, 2010.

Sr. No.	Company Name	No. of Securities issued	Amount Raised (₹ In millions)	Par Value	Issue Price (₹)
1	3i Infotech Limited	37500000	3178.13	10.00	84.75
2	3i Infotech Limited	22900099	1799.95	10.00	78.60
3	Aarti Drugs Limited	400000	21.04	10.00	52.60
4	Aarti Industries Limited	3025000	107.84	5.00	35.65
5	Aban Offshore Limited	5697135	6975.00	2.00	1,224.30
6	Abhishek Corporation Limited	2000000	50.00	10.00	25.00
7	Abhishek Industries Limited	28000000	596.40	10.00	21.30
8	Ackruti City Limited	6035871	3023.97	10.00	501.00
9	Adani Enterprises Limited	74605987	40000.00	1.00	536.15
10	Adhunik Metaliks Limited	6120567	722.23	10.00	118.00
11	Adhunik Metaliks Limited	8154000	1000.01	10.00	122.64
12	Adhunik Metaliks Limited	13960400	1371.33	10.00	98.23
13	Aditya Birla Nuvo Limited	8000000	4329.52	10.00	541.19
14	Agro Dutch Industries Limited	20000000	200.00	10.00	10.00
15	Ahmednagar Forgings Limited	1830000	86.01	10.00	47.00
16	Aksh Optifibre Limited	11550000	225.23	5.00	19.50
17	Allcargo Global Logistics Limited	1081081	1009.73	10.00	934.00
18	Allcargo Global Logistics Limited	7567570	1413.62	2.00	186.80
19	Allcargo Global Logistics Limited	5663105	1046.54	2.00	184.80
20	Allied Digital Services Limited	4900000	2314.22	10.00	472.29
21	Alok Industries Limited	182100248	4246.58	10.00	23.32
22	Alps Industries Limited	1800000	19.80	10.00	11.00
23	Alps Industries Limited	1800000	19.80	10.00	11.00
24	Ambica Agarbathies & Aroma industries Limited	2800000	50.40	10.00	18.00
25	Amtek Auto Limited	7600000	1010.80	2.00	133.00
26	Amtek Auto Limited	7400000	984.20	2.00	133.00
27	Amtek India Limited	5900000	241.90	2.00	41.00
28	Amtek India Limited	6210000	254.61	2.00	41.00
29	Ansal Housing and Construction Limited	900000	36.00	10.00	40.00
30	Ansal Properties & Infrastructure Limited	9627485	673.92	5.00	70.00
31	Ansal Properties & Infrastructure Limited	7050000	581.63	5.00	82.50
32	Ansal Properties & Infrastructure Limited	1500000	123.75	5.00	82.50
33	Apollo Hospitals Enterprise Limited	1549157	771.00	10.00	497.69
34	Aptech Limited	1717103	370.89	10.00	216.00
35	Arvind Limited	7500000	112.50	10.00	15.00
36	Arvind Limited	5500000	82.50	10.00	15.00
37	Asian Electronics Limited	1200000	144.00	5.00	120.00
38	Asian Electronics Limited	833333	33.33	5.00	40.00

Contd.

Contd.

Sr. No.	Company Name	No. of Securities issued	Amount Raised (₹ In millions)	Par Value	Issue Price (₹)
39	Axis Bank Limited	3976632	3605.61	10.00	906.70
40	Axis Bank Limited	33044500	29961.45	10.00	906.70
41	B.A.G Films and Media Limited	7140000	123.52	2.00	17.30
42	Bajaj Electricals Limited	2048339	1607.95	10.00	785.00
43	Bajaj Hindusthan Limited	14500000	756.03	1.00	52.14
44	Bajaj Hindusthan Limited	35450000	7231.80	1.00	204.00
45	Bajaj Holdings & Investment Limited	4859000	2184.51	10.00	449.58
46	Ballarpur Industries Limited	45000000	1350.00	2.00	30.00
47	Ballarpur Industries Limited	55000000	1650.00	2.00	30.00
48	Banswara Syntex Limited*	187500	0.00	10.00	0.00
49	Banswara Syntex Limited	1650000	67.65	10.00	41.00
50	Bartronics India Limited	184899	30.00	10.00	162.25
51	Bartronics India Limited	308166	50.00	10.00	162.25
52	Bartronics India Limited	2200000	510.40	10.00	232.00
53	Berger Paints (I) Limited	7200000	363.60	2.00	50.50
54	Berger Paints (I) Limited	20000000	990.00	2.00	49.50
55	Bharat Forge Limited	10000000	2720.00	2.00	272.00
56	Bharat Forge Limited	6500000	13.00	0.00	2.00
57	Bharati Shipyard Limited	1370000	109.60	10.00	80.00
58	Bhartiya International Limited	800000	34.40	10.00	43.00
59	Bombay Rayon Fashions Limited	18000000	3330.00	10.00	185.00
60	Bombay Rayon Fashions Limited	5800000	1119.40	10.00	193.00
61	C & C Constructions Limited	1976284	500.00	10.00	253.00
62	C & C Constructions Limited	3153000	768.70	10.00	243.80
63	Celebrity Fashions Limited	294118	5.01	10.00	17.03
64	Century Enka Limited	800000	151.33	10.00	189.16
65	Century Enka Limited	1000000	189.16	10.00	189.16
66	Cholamandalam Investment and Finance Company Limited	10893852	1002.23	10.00	92.00
67	Cholamandalam Investment and Finance Company Limited	32608695	3000.00	10.00	92.00
68	Cipla Limited	25630000	6759.91	2.00	263.75
69	Clutch Auto Limited	368000	18.40	10.00	50.00
70	Core Projects and Technologies Limited	4800000	888.00	2.00	185.00
71	Cranes Software International Limited	3098880	387.36	2.00	125.00
72	Cura Technologies Limited	725000	65.25	10.00	90.00
73	Cura Technologies Limited	200000	18.00	10.00	90.00
74	Cura Technologies Limited	350000	63.00	10.00	180.00
75	Cura Technologies Limited	350000	63.00	10.00	180.00
76	Cura Technologies Limited	300000	54.00	10.00	180.00

Contd.

Note : * Shares issued on conversion of warrants which were allotted pursuant to bonus issue.



Contd.

Sr. No.	Company Name	No. of Securities issued	Amount Raised (₹ In millions)	Par Value	Issue Price (₹)
77	Cura Technologies Limited	100000	18.00	10.00	180.00
78	Cura Technologies Limited	100000	18.00	10.00	180.00
79	Cura Technologies Limited	65000	5.85	10.00	90.00
80	Deep Industries Limited	1250000	72.50	10.00	58.00
81	Delta Corp Limited	6138271	248.60	1.00	40.50
82	Delta Corp Limited	200000	8.10	1.00	40.50
83	Delta Corp Limited	8661729	350.80	1.00	40.50
84	Delta Corp Limited	16633000	832.65	1.00	50.06
85	Development Credit Bank Limited	23725835	810.00	10.00	34.14
86	Dewan Housing Finance Corporation Limited	3335000	250.13	10.00	75.00
87	Dewan Housing Finance Corporation Limited	5350000	754.35	10.00	141.00
88	Dewan Housing Finance Corporation Limited	1000000	222.30	10.00	222.30
89	Dewan Housing Finance Corporation Limited	4000000	889.20	10.00	222.30
90	Dewan Housing Finance Corporation Limited	16012231	2257.72	10.00	141.00
91	Dewan Housing Finance Corporation Limited	16869095	3750.00	10.00	222.30
92	Dhanlaxmi Bank Limited	21000000	3807.30	10.00	181.30
93	Edserv Softsystems Limited	227273	20.00	10.00	88.00
94	Edserv Softsystems Limited	2987804	612.50	10.00	205.00
95	Educomp Solutions Limited	52616	41.66	2.00	791.79
96	Educomp Solutions Limited	1620000	6066.90	10.00	3,745.00
97	Elder Pharmaceuticals Limited	1679450	696.97	10.00	415.00
98	Electrosteel Castings Limited	19243836	731.27	1.00	38.00
99	Electrosteel Castings Limited	6206578	235.85	1.00	38.00
100	Electrosteel Castings Limited	14000000	322.00	1.00	23.00
101	Electrosteel Castings Limited	33568312	100.70	0.00	3.00
102	Emami Limited	10000000	3100.00	2.00	310.00
103	Emco Limited	3090000	191.58	2.00	62.00
104	Era Infra Engineering Limited	21000000	1785.00	2.00	85.00
105	Era Infra Engineering Limited	14000000	1190.00	2.00	85.00
106	Escorts Limited	3611610	448.02	10.00	124.05
107	Ess Dee Aluminium Limited	1664000	860.34	10.00	517.03
108	Everest Kanto Cylinder Limited	6000000	810.00	2.00	135.00
109	Exide Industries Limited	50000000	5395.00	1.00	107.90
110	FCS Software Solutions Limited	20000000	182.00	1.00	9.10
111	Gallantt Metal Limited	5000000	155.00	10.00	31.00
112	Gammon India Limited	7750000	699.05	2.00	90.20
113	Gammon India Limited	12809400	3041.59	2.00	237.45
114	Gemini Communication Limited	2962900	53.33	1.00	18.00
115	Geojit BNP Paribas Financial Services Limited	13910514	361.67	1.00	26.00

Contd.

Contd.

Sr. No.	Company Name	No. of Securities issued	Amount Raised (₹ In millions)	Par Value	Issue Price (₹)
116	GI Engineering Solutions Limited	1100000	19.80	10.00	18.00
117	Glenmark Pharmaceuticals Limited	18712935	4135.56	1.00	221.00
118	Glodyne Technoserve Limited	1453221	1044.44	10.00	718.71
119	GMR Infrastructure Limited	13019108	1497.20	2.00	115.00
120	GMR Infrastructure Limited	225080390	14000.00	1.00	62.20
121	Godrej Consumer Products Limited	15400100	5313.03	1.00	345.00
122	GSS America Infotech Limited	1400000	456.48	10.00	326.06
123	GTL Infrastructure Limited	1500000	60.00	10.00	40.00
124	GTL Infrastructure Limited	120495015	4819.80	10.00	40.00
125	Gujarat NRE Coke Limited	4000000	200.00	10.00	50.00
126	Gujarat NRE Coke Limited	15000000	986.70	10.00	65.78
127	Gujarat NRE Coke Limited	1450000	95.38	10.00	65.78
128	Gujarat NRE Coke Limited	4000000	263.12	10.00	65.78
129	Gujarat NRE Coke Limited	400000	0.00	10.00	0.00
130	Gujarat NRE Coke Limited	20800000	104.00	5.00	5.00
131	GVK Power & Infrastructure Limited	173361500	7168.50	1.00	41.35
132	HBL Power Systems Limited	10204450	346.95	1.00	34.00
133	HCL Infosystems Limited	16438848	2513.50	2.00	152.90
134	HCL Infosystems Limited	30555713	4726.66	2.00	154.69
135	HDFC Bank Limited	26200220	40089.74	10.00	1,530.13
136	Helios And Matheson Information Technology Limited	800000	51.97	10.00	64.96
137	Himachal Futuristic Communications Limited	20000000	200.00	10.00	10.00
138	Himadri Chemicals and Industries Limited	412000	175.51	10.00	426.00
139	Himadri Chemicals and Industries Limited	6310000	2524.00	10.00	400.00
140	Hindalco Industries Limited	213147391	27900.99	1.00	130.90
141	Hindustan Construction Company Limited	47000000	4801.05	1.00	102.15
142	Housing Development and Infrastructure Limited	13000000	3120.00	10.00	240.00
143	Housing Development and Infrastructure Limited	8000000	1920.00	10.00	240.00
144	Housing Development and Infrastructure Limited	5000000	1200.00	10.00	240.00
145	Housing Development and Infrastructure Limited	70350000	16884.00	10.00	240.00
146	Housing Development and Infrastructure Limited	43161310	11575.00	10.00	268.18
147	Housing Development Finance Corporation Limited	10953706	3012.27	0.00	275.00
148	ibn18 Broadcast Limited	2500000	255.00	2.00	102.00
149	IDBI Bank Limited	259509110	31190.40	10.00	120.19
150	IFB Industries Limited	6800000	68.00	10.00	10.00
151	IFB Industries Limited	2940000	29.40	10.00	10.00
152	India Foils Limited	136000000	136.00	1.00	1.00
153	Indiabulls Financial Services Limited	56140350	9600.00	2.00	171.00
154	Indiabulls Financial Services Limited	27500000	137.50	0.00	5.00

Contd.



Contd.

Sr. No.	Company Name	No. of Securities issued	Amount Raised (₹ In millions)	Par Value	Issue Price (₹)
155	Indiabulls Real Estate Limited	143594593	26565.00	2.00	185.00
156	Indo Asian Fusegear Limited	800000	40.00	10.00	50.00
157	Indo Count Industries Limited	3000000	30.00	10.00	10.00
158	Indo Count Industries Limited	250000	2.50	10.00	10.00
159	Ind-Swift Laboratories Limited	700000	49.00	10.00	70.00
160	Ind-Swift Laboratories Limited	500000	35.00	10.00	70.00
161	Ind-Swift Laboratories Limited	600000	42.00	10.00	70.00
162	Ind-Swift Laboratories Limited	637000	44.59	10.00	70.00
163	Indusind Bank Limited	54897140	4803.50	10.00	87.50
164	Infrastructure Development Finance Company Limited	157752090	26541.79	10.00	168.25
165	ING Vysya Bank Limited	7493478	1859.13	10.00	248.10
166	ING Vysya Bank Limited	9270455	2300.00	10.00	248.10
167	J.Kumar Infraprojects Limited	4000000	240.00	10.00	60.00
168	J.Kumar Infraprojects Limited	3076785	554.59	10.00	180.25
169	Jai Balaji Industries Limited	8359000	2732.56	10.00	326.90
170	Jai Balaji Industries Limited	8295586	1985.13	10.00	239.30
171	Jain Irrigation Systems Limited	1997780	720.00	10.00	360.40
172	Jayaswal Neco Industries Limited	14200000	479.96	10.00	33.80
173	JCT Electronics Limited	3478300	16.00	1.00	4.60
174	JHS Svendgaard Laboratories Limited	1550000	71.30	10.00	46.00
175	JIK Industries Limited	513050	5.13	10.00	10.00
176	JIK Industries Limited	2465800	24.66	10.00	10.00
177	JIK Industries Limited	383550	3.84	10.00	10.00
178	JIK Industries Limited	624100	6.24	10.00	10.00
179	Jindal Saw Limited	2600897	2130.13	10.00	819.00
180	JSL Stainless Limited	23447240	2473.68	2.00	105.50
181	Jubilant Life Sciences Limited	11237517	3871.32	1.00	344.50
182	Jyothy Laboratories Limited	8063200	2278.82	1.00	282.62
183	K S Oils Limited	27921406	1352.23	1.00	48.43
184	K Sera Sera Limited	4567054	86.50	10.00	18.94
185	K Sera Sera Limited	1982815	30.00	10.00	15.13
186	Kale Consultants Ltd	369475	16.26	10.00	44.01
187	Kale Consultants Ltd	725525	31.93	10.00	44.01
188	Kalpataru Power Transmission Limited	4192114	4503.17	10.00	1,074.20
189	Karuturi Global Limited	3066325	50.59	1.00	16.50
190	Karuturi Global Limited	22800000	273.60	1.00	12.00
191	Karuturi Global Limited	31500000	378.00	1.00	12.00
192	KEI Industries Limited	3000000	84.00	2.00	28.00
193	Kemrock Industries and Exports Limited	911268	328.06	10.00	360.00

Contd.

Contd.

Sr. No.	Company Name	No. of Securities issued	Amount Raised (₹ In millions)	Par Value	Issue Price (₹)
194	Kohinoor Foods Limited	720000	56.41	10.00	78.35
195	Kopran Limited	1850000	18.50	10.00	10.00
196	Kotak Mahindra Bank Limited	16400000	13661.20	10.00	833.00
197	KSK Energy Ventures Limited	26525714	5159.25	10.00	194.50
198	Lanco Infratech Limited	18418587	7273.50	10.00	394.90
199	Larsen & Toubro Limited	11286685	18728.00	2.00	1,659.30
200	LG Balakrishnan & Bros Limited	6	0.00	1.00	18.75
201	LIC Housing Finance Limited	10000000	6580.00	10.00	658.00
202	Lloyds Steel Industries Limited	20000000	200.00	10.00	10.00
203	Lloyds Steel Industries Limited	13000000	130.00	10.00	10.00
204	LT Foods Limited	3848485	254.00	10.00	66.00
205	Lumax Auto Technologies Limited	2000000	238.20	10.00	119.10
206	Magma Fincorp Limited	4067220	1224.23	10.00	301.00
207	Mahindra & Mahindra Limited	9395974	7000.00	10.00	745.00
208	Mahindra Forgings Limited	3000000	411.00	10.00	137.00
209	Mahindra Forgings Limited	16241300	1750.00	10.00	107.75
210	Malwa Cotton Spg. Mills Limited	550000	11.00	10.00	20.00
211	Maral Overseas Limited	19750000	197.50	10.00	10.00
212	Mawana Sugars Limited	4383561	160.00	10.00	36.50
213	Max India Limited	10326311	1500.00	2.00	145.26
214	MIC Electronics Limited	1860000	82.58	2.00	44.40
215	Micro Technologies (India) Limited	1840000	254.45	10.00	138.29
216	Monnet Ispat Limited	4300000	866.45	10.00	201.50
217	Motilal Oswal Financial Services Limited	989066	137.22	1.00	138.74
218	Motilal Oswal Financial Services Limited	984463	165.32	1.00	167.93
219	MVL Industries Limited	681702	9.94	10.00	14.58
220	MVL Limited	2828695	50.01	2.00	17.68
221	MVL Limited	469660	10.00	2.00	21.29
222	Nagarjuna Fertilizer & Chemicals Limited	375151	12.57	10.00	33.50
223	NCC Limited	27732900	3673.50	2.00	132.46
224	NCL Industries Limited	800000	36.00	10.00	45.00
225	NCL Industries Limited	1117652	50.29	10.00	45.00
226	Nectar Lifesciences Limited	26000000	910.00	1.00	35.00
227	Network18 Media & Investments Limited	8181818	900.00	5.00	110.00
228	Network18 Media & Investments Limited	9202650	1196.34	5.00	130.00
229	Network18 Media & Investments Limited	9000000	990.00	5.00	110.00
230	Network18 Media & Investments Limited	1000000	110.00	5.00	110.00
231	Network18 Media & Investments Limited	15762889	2049.18	5.00	130.00
232	Nilkamal Limited	2140181	600.00	10.00	280.35

Contd.



Contd.

Sr. No.	Company Name	No. of Securities issued	Amount Raised (₹ In millions)	Par Value	Issue Price (₹)
233	Nissan Copper Limited	14421000	201.89	10.00	14.00
234	Nitin Spinners Limited	5000000	50.00	10.00	10.00
235	Omnitech Infosolutions Limited	277794	45.98	10.00	165.51
236	Omnitech Infosolutions Limited	441416	73.06	10.00	165.51
237	OnMobile Global Limited	75862	33.03	10.00	435.39
238	Opto Circuits (India) Limited	270000	0.00	10.00	0.00
239	Opto Circuits (India) Limited	540000	194.40	10.00	360.00
240	Opto Circuits (India) Limited	567000	0.00	10.00	0.00
241	Opto Circuits (India) Limited	375000	78.75	10.00	210.00
242	Opto Circuits (India) Limited	21430484	4000.00	10.00	186.65
243	Orbit Corporation Limited	2000000	379.50	10.00	189.75
244	Orbit Corporation Limited	7840426	1450.48	10.00	185.00
245	Orient Press Limited	5000000	50.00	10.00	10.00
246	Pantaloon Retail (India) Limited	15100000	2763.30	2.00	183.00
247	Pantaloon Retail (India) Limited	5000000	915.00	2.00	183.00
248	Pantaloon Retail (India) Limited	15822200	4999.82	2.00	316.00
249	Paramount Communications Limited	2000000	26.00	2.00	13.00
250	Parsvnath Developers Limited	13856272	1680.07	10.00	121.25
251	Patel Engineering Limited	7218061	3443.23	1.00	477.03
252	Phillips Carbon Black Limited	4964376	992.88	10.00	200.00
253	Pioneer Distilleries Limited	800000	28.88	10.00	36.10
254	Prajay Engineers Syndicate Limited	8635084	168.38	10.00	19.50
255	PSL Limited	10750000	1493.18	10.00	138.90
256	PTC India Limited	66665600	4999.92	10.00	75.00
257	Punj Lloyd Limited	27900920	6701.80	2.00	240.20
258	Punjab Chemicals & Crop Protection Limited	600000	81.60	10.00	136.00
259	PVR Limited	2557000	421.91	10.00	165.00
260	R. S. Software (India) Limited	220000	4.29	10.00	19.50
261	R. S. Software (India) Limited	380000	7.41	10.00	19.50
262	R. S. Software (India) Limited	400000	7.80	10.00	19.50
263	Radha Madhav Corporation Limited	3490400	218.15	10.00	62.50
264	Radha Madhav Corporation Limited	2058000	128.63	10.00	62.50
265	Radico Khaitan Limited	28919000	3417.94	2.00	118.19
266	Raj Rayon Industries Limited	81500	0.82	10.00	10.00
267	Raj Rayon Industries Limited	899000	8.99	10.00	10.00
268	Raj Rayon Industries Limited	946500	9.47	10.00	10.00
269	Rallis India Limited	980000	890.34	10.00	908.51
270	Ramkrishna Forgings Limited	1100000	118.25	10.00	107.50
271	Rana Sugars Limited	3800000	43.70	10.00	11.50

Contd.

Contd.

Sr. No.	Company Name	No. of Securities issued	Amount Raised (₹ In millions)	Par Value	Issue Price (₹)
272	Rana Sugars Limited	3600000	41.40	10.00	11.50
273	Rana Sugars Limited	3500000	40.25	10.00	11.50
274	Rana Sugars Limited	6100000	70.15	10.00	11.50
275	Rane Brake Lining Limited	700000	35.00	10.00	50.00
276	Rei Agro Limited	29945550	1826.68	1.00	61.00
277	Reliance Infrastructure Limited	19600000	18206.24	10.00	928.89
278	Resurgere Mines & Minerals India Limited	65000000	812.50	1.00	12.50
279	Rico Auto Industries Limited	3270000	57.23	1.00	17.50
280	RPG Life Sciences Limited	700000	16.59	8.00	23.70
281	Ruchi Soya Industries Limited	30000000	1050.00	2.00	35.00
282	Ruchi Soya Industries Limited	21154000	740.39	2.00	35.00
283	Ruchi Soya Industries Limited	22746000	796.11	2.00	35.00
284	S. Kumars Nationwide Limited	6376195	150.03	10.00	23.53
285	S. Kumars Nationwide Limited	1666665	50.00	10.00	30.00
286	S. Kumars Nationwide Limited	13122400	1082.60	10.00	82.50
287	S. Kumars Nationwide Limited	28943750	2315.50	10.00	80.00
288	Sabero Organics Gujarat Limited	80000	1.42	10.00	17.75
289	Sabero Organics Gujarat Limited	1821681	32.33	10.00	17.75
290	Sabero Organics Gujarat Limited	2713424	48.16	10.00	17.75
291	Sabero Organics Gujarat Limited	56972	1.01	10.00	17.75
292	Sathavahana Ispat Limited	5525000	331.50	10.00	60.00
293	Satyam Computer Services Limited	302764327	17560.33	2.00	58.00
294	Satyam Computer Services Limited	198658498	11522.19	2.00	58.00
295	SEL Manufacturing Company Limited	1891000	349.84	10.00	185.00
296	SEL Manufacturing Company Limited	5700000	399.00	10.00	70.00
297	Sesa Goa Limited	33274000	5372.42	1.00	161.46
298	Sezal Glass Limited	800000	32.00	10.00	40.00
299	Shiv-Vani Oil & Gas Exploration Services Limited	2457895	934.00	10.00	380.00
300	Shree Renuka Sugars Limited	4000000	250.28	1.00	62.57
301	Shree Renuka Sugars Limited	18000000	2058.66	1.00	114.37
302	Shree Renuka Sugars Limited	36936840	5060.35	1.00	137.00
303	Shreyans Industries Limited	2750000	89.38	10.00	32.50
304	Shri Lakshmi Cotsyn Limited	778500	77.85	10.00	100.00
305	Shri Lakshmi Cotsyn Limited	1378500	137.85	10.00	100.00
306	Shri Lakshmi Cotsyn Limited	1975000	110.60	10.00	56.00
307	Shri Lakshmi Cotsyn Limited	843000	84.30	10.00	100.00
308	Shriram City Union Finance Limited	587500	235.00	10.00	400.00
309	Shriram City Union Finance Limited	662500	265.00	10.00	400.00
310	Shriram City Union Finance Limited	2000000	800.00	10.00	400.00

Contd.



Contd.

Sr. No.	Company Name	No. of Securities issued	Amount Raised (₹ In millions)	Par Value	Issue Price (₹)
311	Shriram Transport Finance Company Limited	8000000	2400.00	10.00	300.00
312	Shriram Transport Finance Company Limited	11658552	5838.60	10.00	500.80
313	Simbhaoli Sugars Limited	1604000	68.25	10.00	42.55
314	Simplex Projects Limited	600000	81.00	10.00	135.00
315	Sobha Developers Limited	25162135	5268.95	10.00	209.40
316	Southern Petrochemicals Industries Corporation Limited	6558676	118.06	10.00	18.00
317	Southern Petrochemicals Industries Corporation Limited	16666666	300.00	10.00	18.00
318	Spentex Industries Limited	2261000	38.32	10.00	16.95
319	Spentex Industries Limited	3842000	65.12	10.00	16.95
320	Sree Rayalaseema Hi-Strength Hypo Limited	266500	8.22	10.00	30.85
321	Sri Adhikari Brothers Television Network Limited	1925000	61.31	10.00	31.85
322	Sri Adhikari Brothers Television Network Limited	5050000	127.51	10.00	25.25
323	Steel Strips Wheels Limited	550000	57.75	10.00	105.00
324	Sterlite Technologies Limited	16125000	0.00	2.00	0.00
325	Sterlite Technologies Limited	16125000	419.25	2.00	26.00
326	Strides Arcolab Limited	2560000	233.34	10.00	91.15
327	Strides Arcolab Limited	420000	38.28	10.00	91.15
328	Strides Arcolab Limited	3220000	293.50	10.00	91.15
329	Subex Limited	4000000	320.00	10.00	80.00
330	Sujana Metal Products Limited	13000000	273.00	5.00	21.00
331	Sujana Metal Products Limited	15000000	315.00	5.00	21.00
332	Sujana Metal Products Limited	12000000	252.00	5.00	21.00
333	Sujana Tower Limited	1111111	40.00	5.00	36.00
334	Sujana Tower Limited	3200000	176.00	5.00	55.00
335	Sujana Tower Limited	10000000	550.00	5.00	55.00
336	Sujana Tower Limited	6000000	330.00	5.00	55.00
337	Sujana Tower Limited	1800000	99.00	5.00	55.00
338	Sujana Universal Industries Limited	6500000	81.25	10.00	12.50
339	Sunteck Realty Limited	2966207	1584.40	2.00	534.15
340	Supreme Tex Mart Limited	4807143	201.90	5.00	42.00
341	Su-Raj Diamonds and Jewellery Limited	18000000	776.16	10.00	43.12
342	Surana Industries Limited	3000000	450.00	10.00	150.00
343	Surya Roshni Limited	1830000	107.97	10.00	59.00
344	Suryajyoti Spinning Mills Limited	700000	11.20	10.00	16.00
345	Talbros Automotive Components Limited	410000	26.65	10.00	65.00
346	Tanla Solutions Limited	1479593	91.04	1.00	61.53
347	Tantia Constructions Limited	800000	71.30	10.00	89.12
348	Tata Chemicals Limited	11500000	3634.00	10.00	316.00
349	Tata Steel Limited	15000000	8910.00	10.00	594.00

Contd.

Contd.

Sr. No.	Company Name	No. of Securities issued	Amount Raised (₹ In millions)	Par Value	Issue Price (₹)
350	Texmaco Limited	16400000	1705.60	1.00	104.00
351	The Dhampur Sugar Mills Limited	1456804	228.44	10.00	156.81
352	The Dhampur Sugar Mills Limited	13803	3.19	10.00	231.30
353	The India Cements Limited	24594000	2956.20	10.00	120.20
354	The Karnataka Bank Limited	12115564	1608.34	10.00	132.75
355	The Sirpur Paper Mills Limited	877869	50.04	10.00	57.00
356	TIL Limited	300135	97.84	10.00	326.00
357	Trigyn Technologies Limited	1315000	24.74	10.00	18.81
358	Ucal Fuel Systems Limited	8217625	298.71	10.00	36.35
359	Unitech Limited	50000000	2537.50	2.00	50.75
360	Unitech Limited	59056781	2997.13	2.00	50.75
361	Unitech Limited	20000000	1015.00	2.00	50.75
362	Unitech Limited	421064935	16211.00	2.00	38.50
363	Unitech Limited	344361112	27893.25	2.00	81.00
364	United Spirits Limited	17681952	16156.00	10.00	913.70
365	Unity Infraprojects Limited	1449476	733.43	10.00	506.00
366	Usha Martin Limited	54500000	4681.55	1.00	85.90
367	Vakrangee Softwares Limited	1100000	77.00	10.00	70.00
368	Valecha Engineering Limited	650000	25.35	10.00	39.00
369	Vardhman Polytex Limited	2003000	79.18	10.00	39.53
370	Videocon Industries Limited	1858275	450.00	10.00	242.16
371	Videocon Industries Limited	7541300	1598.45	10.00	211.96
372	Visesh Infotecnics Limited	6300000	63.00	10.00	10.00
373	Visesh Infotecnics Limited	500000	5.00	10.00	10.00
374	Websol Energy Systems Limited	248000	37.20	10.00	150.00
375	Websol Energy Systems Limited	1000000	75.00	10.00	75.00
376	Websol Energy Systems Limited	2000000	454.00	10.00	227.00
377	Welspun Corp Limited	16694718	4662.00	5.00	279.25
378	Welspun India Limited	15603000	1560.30	10.00	100.00
379	Welspun Projects Limited	17178888	2113.00	10.00	123.00
380	West Coast Paper Mills Limited	3000000	135.00	2.00	45.00
381	West Coast Paper Mills Limited	2373578	115.00	2.00	48.45
382	Yes Bank Limited	38362709	10338.75	10.00	269.50

Source : NSE



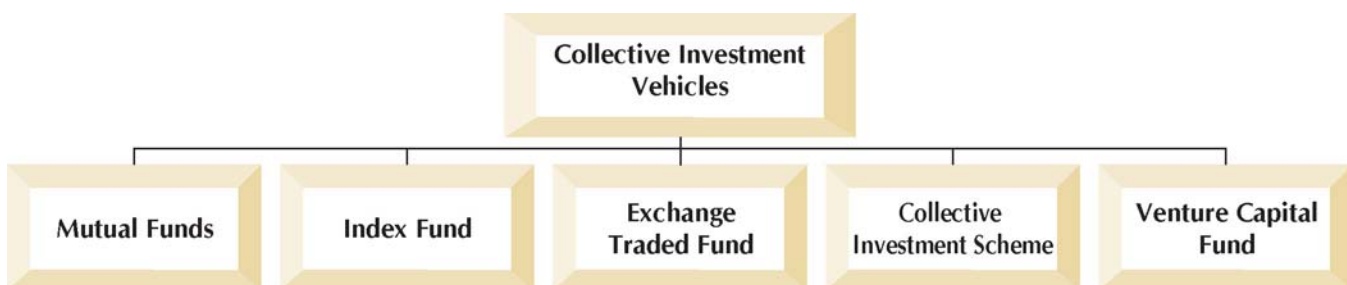
Collective Investment Vehicles

Introduction

A collective investment vehicle is any entity that allows investors to pool their money and invest the pooled funds, rather than buying securities directly as individuals. The most common types of collective investment vehicles are mutual funds, exchange traded funds, collective investment schemes and venture capital funds. The Collective Investment Scheme is well established in many jurisdictions and now serves as an investment vehicle for a wide range of investment opportunities around the world. The International Organization of Securities Commission (IOSCO) has, in its Report on Investment Management of the Technical Committee, defined the Collective Investment Schemes (CIS), as “an open ended collective investment scheme that issues redeemable units and invests primarily in transferable securities or money market instruments”.

In India, there are five distinct categories of collective investment vehicles in operation namely, Mutual Funds (MFs), Index Fund, Exchange Traded Fund, Collective Investment Schemes (CIS) and Venture Capital Funds (VCFs) which mobilize resources from the market for investment purposes (chart 3-1). The developments in the year 2009-10 and April-September 2010 with respect to the above five different CIVs are discussed in this chapter.

Chart 3-1: Collective Investment Vehicles



Mutual Funds

A mutual fund is a company that pools money from many investors and invests the money in stocks, bonds, short-term money-market instruments, other securities or assets, or some combination of these investments. Mutual Funds are essentially investment vehicles where people with similar investment objective come together to pool their money and then invest accordingly. SEBI defines mutual funds as ‘A fund established in the form of a trust to raise money through the sale of units to the public or a section of the public under one or more schemes for investing in securities, including money market instruments or gold or gold related instruments or real estate assets. A Mutual Fund will have a fund manager who is responsible for investing the pooled money into specific securities (usually stocks and bonds). When you invest in a MF, you are buying shares (or portions) of the MF and become a shareholder of the fund. Mutual Funds (MFs) are considered a good route to invest and earn returns with reasonable safety. Some of the other major benefits of

investing in them such as it provides various types of options of investing in various schemes, diversification, professional Management, Liquidity, well Regulated, transparency, tax benefits and affordability factor.

In India, the Unit Trust of India (UTI), created in 1964 was the first MF in India. It enjoyed complete monopoly of MF business till 1986. The entry of non- UTI public sector mutual funds was set up by public sector banks and Life Insurance Corporation of India (LIC) and General Insurance Corporation of India (GIC) in 1987. SBI Mutual Fund was the first non-UTI Mutual Fund established in June 1987. The MF business was progressively opened to competition post 1988. This move gathered momentum after the adoption of economic liberalization in 1991 and the establishment of SEBI in 1992.

Policy Developments for Mutual Funds during April-2009 to December-2010

Over the past years, SEBI has taken several policy measures to improve the mutual fund industry in India for investor protection, market development and effective regulation. The policy developments (from April 2009 to December 2010) pertaining to mutual funds are enumerated below.

I. Physical verification of gold underlying the Gold ETF units to be reported to trustees on half yearly basis

SEBI, vide its circular dated December 06, 2010, has decided that physical verification of gold underlying the Gold ETF units shall be carried out by statutory auditors of mutual fund schemes. Such confirmation on physical verification of gold shall form part of the half yearly report by trustees to SEBI. This shall come into effect from the half yearly report ending April 2011 by trustees to SEBI.

II. Amendments made in the SEBI (Mutual Fund) Regulations, 1996 related to interval schemes and uniform cut-off timings for applicability of NAV of mutual fund schemes

A. Interval Schemes/Plans

As per the existing regulation, there is no restriction on tenure of securities in which interval scheme can invest. This read with daily redemption option may result in asset liability mismatch. In line with the changes made in the SEBI (Mutual Funds) Regulations, 1996 regarding close ended schemes, SEBI has decided that, henceforth, for all interval schemes/plans

- i. The units shall be mandatorily listed.
- ii. No redemption/repurchase of units shall be allowed except during the specified transaction period (the period during which both subscription and redemption may be made to and from the scheme). The specified transaction period shall be of minimum 2 working days.
- iii. Minimum duration of an interval period in an interval scheme/plan shall be 15 days.
- iv. Investments shall be permitted only in such securities which mature on or before the opening of the immediately following specified transaction period.

In case of securities with put and call options the residual time for exercising the put option of the securities shall not be beyond the opening of the immediately following transaction period.

B. Uniform cut-off timings for applicability of NAV of Mutual Fund Schemes

It has been observed that mutual funds are deploying funds without receiving clear funds in the scheme account. As a matter of good practice and to avoid systemic risk, SEBI has decided to bring certain modifications to its circular dated October 11, 2006 as per the following details:

- i) For determining the applicable NAV, the following cut-off timings shall be observed by a mutual fund in respect of purchase of units in liquid fund schemes and their plans, and the following NAVs shall be applied for such purchase:
 - Where the application is received up to 2.00 p.m. on a day and funds are available for utilization before the



cut-off time without availing any credit facility, whether, intra-day or otherwise – the closing NAV of the day immediately preceding the day of receipt of application;

- Where the application is received after 2.00 p.m. on a day and funds are available for utilization on the same day without availing any credit facility, whether, intra-day or otherwise – the closing NAV of the day immediately preceding the next business day ; and
 - irrespective of the time of receipt of application, where the funds are not available for utilization before the cut-off time without availing any credit facility, whether, intra-day or otherwise – the closing NAV of the day immediately preceding the day on which the funds are available for utilization.
- ii) For allotment of units in respect of purchase in liquid schemes, it shall be ensured that:
- Application is received before the applicable cut-off time.
 - Funds for the entire amount of subscription/purchase as per the application are credited to the bank account of the respective liquid schemes before the cut-off time.
 - The funds are available for utilization before the cut-off time without availing any credit facility whether intra-day or otherwise, by the respective liquid schemes.
- iii) For allotment of units in respect of switch-in to liquid schemes from other schemes, it shall be ensured that:
- Application for switch-in is received before the applicable cut-off time.
 - Funds for the entire amount of subscription/purchase as per the switch-in request are credited to the bank account of the respective switch-in liquid schemes before the cut-off time.
 - The funds are available for utilization before the cut-off time without availing any credit facility whether intra-day or otherwise, by the respective switch-in schemes.

With regard to SEBI circular dated October 24, 2008 which specifies the applicability of NAV for income/debt oriented mutual fund schemes/plans other than liquid schemes, SEBI has clarified that for determining the applicable NAV:

- i) For allotment of units in respect of purchase in income/debt oriented mutual fund schemes/plans other than liquid schemes, it shall be ensured that:
- Application is received before the applicable cut-off time.
 - Funds for the entire amount of subscription/purchase as per the application are credited to the bank account of the respective schemes before the cut-off time.
 - The funds are available for utilization before the cut-off time without availing any credit facility whether intra-day or otherwise, by the respective scheme.
- ii) For allotment of units in respect of switch-in to income/debt oriented mutual fund schemes/plans other than liquid schemes from other schemes, it shall be ensure that:
- Application for switch-in is received before the applicable cut-off time.
 - Funds for the entire amount of subscription/purchase as per the switch-in request are credited to the bank account of the respective switch-in income/debt oriented mutual fund schemes/plans before the cut-off time.
 - The funds are available for utilization before the cut-off time without availing any credit facility whether intra-day or otherwise, by the respective switch-in income/debt oriented mutual fund schemes/plans.

III. Facilitating transactions in Mutual Fund schemes through the Stock Exchange infrastructure

- a) In continuation to its permission to units of mutual fund schemes to be transacted through registered stock brokers of recognized stock exchanges in November 2009, SEBI, vide its circular dated November 9, 2010 has decided

that units of mutual fund schemes may be permitted to be transacted through clearing members of the registered stock exchanges. Further, the capital market regulator has decided to permit Depository participants of registered Depositories to process only redemption request of units held in demat form. These steps are expected to provide more avenues for purchasing and redeeming Mutual Fund units, in addition to the existing facilities of purchasing and redeeming directly with the Mutual Funds and Stock Brokers.

- b) With respect to investors having demat account and purchasing and redeeming mutual funds units through stock brokers and clearing members, SEBI has decided that investors shall receive redemption amount through broker/clearing member's pool account. Further, payment of redemption proceeds to the broker/clearing members by MF/AMC (Asset Management Companies) shall discharge MF/AMC of its obligation of payment to individual investor. Similarly, in case of purchase of units, crediting units into broker/clearing member pool account shall discharge MF/AMC of its obligation to allot units to individual investor.

IV. Consolidation or merger of schemes

To facilitate merger of schemes, SEBI, vide its circular dated October 22, 2010, has decided that merger or consolidation shall not be seen as change in fundamental attribute of the surviving scheme if:

- a) Mutual funds are able to demonstrate that the circumstances merit merger or consolidation of schemes and the interest of the unit holders of surviving scheme is not adversely affected.
- b) Fundamental attributes of the surviving scheme as per the SEBI circular dated February, 1998 do not change.

V. Transferability of mutual fund units

To facilitate transferability of units of mutual funds held in one demat account to another demat account, SEBI vide its circular dated August 18, 2010 has decided that all AMCs shall clarify by way of an addendum that units of all mutual fund schemes held in demat form shall be freely transferable from the date of the issue of said addendum by October 1, 2010. For units of ELSS schemes, however, restrictions on transfer during the lock-in period shall continue to be applicable as per the ELSS guidelines.

VI. Review of norms for investment and disclosure by mutual funds in derivatives

In order to have prudential limits for derivative investments by mutual funds and to bring in transparency and clarity in the disclosure of the same to investors, SEBI vide their circular dated August 18, 2010 notified modifications on investment in derivatives by mutual funds and disclosures thereof in half yearly portfolio statement.

Exposure Limits

- I. The cumulative gross exposure through equity, debt and derivative positions should not exceed 100% of the net assets of the scheme.
- II. Mutual Funds should not write options or purchase instruments with embedded written options.
- III. The total exposure related to option premium paid must not exceed 20% of the net assets of the scheme.
- IV. Cash or cash equivalents with residual maturity of less than 91 days may be treated as not creating any exposure.
- V. Exposure due to hedging positions may not be included in the above mentioned limits subject to the following
 - a. Hedging positions are the derivative positions that reduce possible losses on an existing position in securities and till the existing position remains.
 - b. Hedging positions cannot be taken for existing derivative positions. Exposure due to such positions shall have to be added and treated under limits mentioned in point 1.
 - c. Any derivative instrument used to hedge has the same underlying security as the existing position being hedged.



- d. The quantity of underlying associated with the derivative position taken for hedging purposes does not exceed the quantity of the existing position against which hedge has been taken.
- VI. Mutual funds may enter into plain vanilla interest rate swaps for hedging purposes. The counter party in such transactions has to be an entity recognized as a market maker by RBI. Further, the value of the notional principal in such cases must not exceed the value of respective existing assets being hedged by the scheme. Exposure to a single counterparty in such transactions should not exceed 10% of the net assets of the scheme.
- VII. Exposure due to derivative positions taken for hedging purposes in excess of the underlying position against which the hedging position has been taken, shall be treated under the limits mentioned in point 1.

Definition of Exposure in Case of Derivative Positions

- VIII. Each position taken in derivatives shall have an associated exposure as defined under. Exposure is the maximum possible loss that may occur on a position. However, certain derivative positions may theoretically have unlimited possible loss. Exposure in derivative positions shall be computed as follows:

Position	Exposure
Long Future	Futures price * Lot Size * Number of Contracts
Short Future	Futures price * Lot Size * Number of Contracts
Option bought	Option Premium Paid * Lot Size * Number of Contracts

- IX. Since the disclosures currently made in the half yearly portfolio disclosure, annual report or in any other disclosures are not uniform across the industry, relevant formats of reports are prescribed under the circular IMD/DF/11/2010.
- X. Further, while listing net assets, the margin amounts paid should be reported separately under cash or bank balances.

All the above provisions would be applicable for all new schemes launched after August 18, 2010. For all existing schemes, compliance with the circular would be effective from October 01, 2010.

VII. Updation of investor related documents

SEBI, vide its circular dated December 11, 2009 had advised all mutual funds to confirm the availability of all the investor related document with them. SEBI, however, has not received any such confirmation and has observed that due to such incomplete documentation, investors' rights to approach the AMCs directly are restricted and investors are forced to depend on the distributors for executing any financial or non-financial transactions. With an aim to ensure investors have unrestricted access to AMCs and to enable AMCs to provide prompt investor service including execution of investors' financial or non-financial transactions, SEBI has directed all mutual funds/AMCs that all investor related documents shall be obtained before opening up of any new folio/account and for existing folios, AMCs shall be responsible for updation of the investor related documents.

VIII. Changes in the SEBI Mutual Funds Regulations 1996

SEBI, vide its circular dated March 15, 2010, has made the following modifications in SEBI (Mutual Funds) Regulations, 1996:

- In order to standardize the disclosures on brokerage and commission paid to associates/related parties/group companies of sponsor/Asset Management Company in the unaudited half-yearly financial results, these disclosures shall henceforth be made in the following format:

Brokerage paid to associates/related parties/group companies of sponsor/AMC

Name of associate/ related parties/group companies of sponsor/ AMC	Nature of Association/Nature of relation	Period covered*	Value of transaction (in ₹ Cr. & % of total value of transaction of the fund)	Brokerage (₹ Cr. &% of total brokerage paid by the fund)

Commission paid to associates/related parties/group companies of sponsor/AMC

Name of associate/ related parties/ group companies of sponsor/AMC	Nature of Association/ Nature of relation	Period covered*	Business given (₹ Cr. & % of total business received by the fund)	Commission paid (₹ Cr. & % of total commission paid by the fund)

- In its persistent endeavour to make the public issue process efficient, SEBI has decided to provide Application Supported by Blocked Amount (ASBA) facility to the investors subscribing to New Fund Offers (NFOs) of mutual fund schemes. It shall co-exist with the current process, wherein cheques/demand drafts are used as a mode of payment. The Mutual Funds/AMCs have to compulsorily provide ASBA facility to the investors for all NFOs launched on or after July 01, 2010. However, in partial modification to the afore mentioned deadline, SEBI, vide its circular dated July 28, 2010 has decided that mutual funds/AMCs shall provide ASBA facility to investors for all NFOs launched on or after October 1, 2010.
- SEBI has decided to reduce the NFO period to 15 days in order to make NFO process efficient. The NFO period in case of ELSS, however, shall continue to be governed by guidelines issued by government of India. Mutual Funds/AMCs shall make investment out of the NFO proceeds only on or after the closure of the NFO period. The reduction in NFO period shall be application for all NFOs launched on or after July 01, 2010.

Regarding initial offer period and time taken for allotment of units and dispatch of accounts statements, SEBI has decided that the present limit of maximum period of 30 days in case of open ended schemes and 45 days of close ended scheme shall be reduced to 15 days (except ELSS schemes). The mutual fund should allot units/refund of money and dispatch statements of accounts within five business days from the closure of the NFO and within five business days of allotment, all the schemes (except ELSS) shall be available for ongoing repurchase/sale/trading.

- In order to enable mutual funds to play an active role in ensuring better corporate governance of listed companies, SEBI has decided that, starting from the financial year 2010-11, AMCs shall disclose their general policies and procedures for exercising the voting rights in respect of shares held by them on the website of respective AMC as well as in the annual report distributed to the unit holders. Further, AMCs are also required to disclose the actual exercise of their proxy votes in the AGMs/EGMs of the investee companies in respect of various matters, such as corporate governance matters, changes to capital structure, stock option plans and other management compensation issues, social and corporate responsibility issues, appointment and removal of directors and any other issue that may affect the interest of the shareholders in general and interest of the unit-holders in particular. Such disclosure of voting by mutual funds in general meetings of listed companies shall be done in the following format:



Management Proposals

Date	Type of Meeting (AGM / EGM)	Proposal	Management Recommendation	Vote (For / Against / Abstain)

Shareholder Proposals

Date	Type of Meeting (AGM / EGM)	Proposal	Management Recommendation	Vote (For / Against / Abstain)

- Consequent to SEBI's decision in June 2009 regarding the abolition of entry load for all mutual fund schemes, it has further clarified that AMCs shall not collect any additional management fees referred to in Regulation 52(3) of SEBI Mutual Funds Regulation, 1996.
- From the disclosures in the scheme information documents (SID), some conflict of interest has been observed as AMCs have been entering into revenue sharing arrangements with offshore funds in respect of investments made on behalf of Fund of Fund schemes. SEBI has decided that henceforth AMCs shall not enter into any revenue sharing arrangement with the underlying funds in any manner and shall not receive any revenue from the underlying fund. Any commission or brokerage received from the underlying fund shall be credited into concerned scheme's account.

IX. Certification programme for sale and/or distribution of mutual fund products

SEBI, vide its circular dated May 31st, 2010, has decided that the following category of persons i.e., distributors, agents or any persons associated in the sale and distribution of mutual fund products, shall be required to pass the certification examination from the National Institute of Securities Markets (NISM). The said associated persons shall be exempted from the requirement of NISM certification examination if they possess a valid certificate of the AMFI mutual fund (Advisors) module by passing before June 01, 2010. Further, SEBI, vide its circular dated June 24, 2010 has decided that a person holding a valid AMFI certification whose validity expires between June 01, 2010 December 31, 2010, would be required to comply with the Continuing Professional Education (CPE) requirements as laid down by NISM. An associated person holding a valid AMFI/NISM certification whose validity expires anytime after December 31, 2010, would be required to comply with these CPE requirements prior to the expiry of the validity of the certification.

X. Disclosure of investor complaints with respect to Mutual Funds

Transparency in 'grievance redressal' has been identified as a key area to enhance investor protection in view of investors' feedback to improve transparency in the grievance redressal mechanism. SEBI, vide its circular dated May 13, 2010, has decided that mutual funds shall disclose details of investor complaints received by them from all sources on their websites, on the AMFI website as well as in their Annual Reports. All the complaints have been classified into four categories, such as delay/non-receipt of money, statement of account/unit certificate/annual report, service related and others. Accordingly, mutual funds were advised to upload the report for the year 2009-10 by June 30, 2010 and report for following financial years within 2 months of the close of the financial year.

XI. Standard warning in Advertisements by Mutual Funds

As per the current guidelines pertaining to the advertisements of mutual funds through audio-visual media like television, a standard warning statement "Mutual Fund investments are subject to market risks, read the offer document carefully

before investing” is required to be displayed on the screen for at least 5 seconds and be accompanied by a voice over reiteration.

It has however, been observed by SEBI that in some cases the visual and voice over were run for less than 5 seconds, or if the visual stayed for 5 seconds the voice over either started late or ended early or both. In some cases extra words were inserted in the visual and voice over. As a result, the warning was rendered unintelligible to the viewer/listener.

In an endeavour to improve the manner in which the said message is conveyed to the investors; vide SEBI circular dated February 4, 2010 the mutual funds were informed that the following changes relating to the standard warning would be made effective from May 01, 2010:

- i. The standard warning in audio-visual advertisement shall be displayed as *“Mutual Fund investments are subject to market risks, read all scheme related documents carefully”*.
- ii. No addition or deletion of words shall be made in the standard warning.

This was in continuation to the SEBI circulars issued in June 2003 and February 2008. Through the SEBI circular dated June 26, 2003, it was mentioned that visual is to be accompanied by voice over and therefore to strengthen this norm, it was again re-emphasized that both the visual and the voice over of the standard warning will be run for at least 5 seconds.

XII. Valuation of debt and money market instruments

Pursuant to the discussions by the advisory committee of mutual funds regarding valuation methodology of debt and money market instruments, it was decided that the value of money market and debt securities in the portfolio of mutual fund schemes should reflect the current market scenario. Accordingly, the provisions regarding valuation of these securities were modified as follows and conveyed to all the asset management companies vide SEBI circular dated February 2, 2010. This would be effective from July 1, 2010.

- All money market and debt securities, including floating rate securities, with residual maturity of up to 91 days shall be valued at the weighted average price at which they are traded on the particular valuation day. When such securities are not traded on a particular valuation day they shall be valued on amortization basis. In case of floating rate securities with floor and caps on coupon rate and residual maturity of up to 91 days, valuation would be done on amortization basis taking the coupon rate as floor.
- All money market and debt securities, including floating rate securities, with residual maturity of over 91 days shall be valued at weighted average price at which they are traded on the particular valuation day. When such securities are not traded on a particular valuation day they shall be valued at benchmark yield/ matrix of spread over risk free benchmark yield obtained from agency(ies) entrusted for the said purpose by AMFI.
- In case securities purchased by mutual funds do not fall within the current framework of the valuation of securities then such mutual fund shall report immediately to AMFI regarding the same. Further, at the time of investment AMCs shall ensure that the total exposure in such securities does not exceed 5% of the total AUM of the scheme. AMFI has been advised that the valuation agencies should ensure that the valuation of such securities gets covered in the valuation framework within six weeks from the date of receipt of such intimation from mutual fund. In the interim period, till AMFI makes provisions to cover such securities in the valuation of securities framework, the mutual funds shall value such securities using their proprietary model which has been approved by their independent trustees and the statutory auditors.
- Further, through this circular all mutual funds were notified to provide transaction details, including inter scheme transfers, of money market and debt securities on daily basis to the agency entrusted for providing the benchmark yield/ matrix of spread over risk free benchmark yield. Submission of data would help in daily matrix generation and would improve uniformity and accuracy of valuation in the mutual funds industry.

Methodology for matrix of spread for marking Benchmark yield—in the methodology for pricing the (non-traded securities as per the existing circulars) additional duration viz. 0.25-0.5 years would be provided.



It was decided to make the aforesaid valuation applicable with effect from July 1, 2010. However, in partial modification to the earlier deadline, SEBI, vide its circular dated June 21, 2010, has decided that the aforesaid valuation would be applicable w.e.f. August 1, 2010.

XIII. Changes and new additions made to SEBI Mutual Funds Regulations 1996

Vide SEBI circular dated December 15, 2009 following modifications were made in SEBI Mutual funds Regulations 1996.

- Sub-clause (a) of Regulation 53 of SEBI (Mutual Funds) Regulations, 1996 requires asset management companies to dispatch dividend warrants within 30 days of the declaration of the dividend. It was clarified that, in the event of failure of dispatch of dividend within the stipulated 30 day period, the AMC(s) shall be liable to pay interest @15 per cent per annum to the unit holders. This is a new clause which was inserted.

Below the format for statement of interest paid to the investors for delays in despatch of redemption / repurchase warrants, the following table on statement of interest paid to the investors for delays in dispatch of dividend would be inserted. This statement has to be sent to SEBI along with the Compliance Test Report(s)

Name of the Investor	Date of Dividend Declaration	Date of Despatch of Dividend	Period of Delay	Amount of Interest Paid (₹)

- Under the guidelines for participation by Mutual Funds in Stock Lending Scheme, the clause pertaining to valuation of collateral securities was deleted and mutual funds were required to comply with guidelines issued in this regard by SEBI/ Stock Exchange from time to time
- Under 'Maintenance of Records', the following was inserted at the end of the paragraph: ".....within 21 days from the date of closure of the exit option"
- For launching additional plans in existing open ended schemes, mutual funds shall comply with the following provisions:
 - a. Additional plans sought to be launched under existing open ended schemes which differ substantially from that scheme in terms of portfolio or other characteristics shall be launched as separate schemes in accordance with the regulatory provisions.
 - b. However, plan(s) which are consistent with the characteristics of the scheme may be launched as additional plans as part of existing schemes by issuing an addendum. Such proposal should be approved by the Board(s) of AMC and Trustees. Further:
 - i. The addendum shall contain information pertaining to salient features like applicable entry/exit loads, expenses or such other details which in the opinion of the AMC/ Trustees is material. The addendum shall be filed with SEBI 21 days in advance of opening of plan(s).
 - ii. AMC(s) shall publish an advertisement or issue a press release at the time of launch of such additional plan(s).
- The tenure of '10 calendar days' as stipulated in Clause 1.5 under prior approval of personal investment transactions was replaced with '7 calendar days'.
- The tombstone of advertisement can only give basic information about a:
 - (i) Mutual fund registered with SEBI whose Statement of Additional Information is filed with SEBI and has been uploaded on its website; or
 - (ii) scheme which is already launched and is in existence and whose Scheme information document is available.

- Issue of advertisements or distribution of sales literature must be accompanied or preceded by issue of SID and SAI, unless stated otherwise
- Pertaining to use of rankings in advertisements and sales literature, the concept of “current standardized yield” was replaced with “compounded annualized yield”.
- Mutual Funds while advertising simple annualized returns of such schemes based on a period of 30 days can also advertise simple annualized returns based on 15 day or 7 day period.

XIV. Transactions through some mutual fund distributors and compliance with the SEBI circular on AML

In terms of the SEBI master circular dated December 19, 2008 issued to all registered intermediaries on “Anti Money Laundering (AML) Standards/Combating Financing of Terrorism (CFT) / Obligations of Securities Market Intermediaries under Prevention of Money Laundering Act, 2002 and Rules framed there-under”, it was prescribed that it would be the responsibility of the intermediaries to ensure customer due diligence by obtaining sufficient information to identify persons, have a policy in place for acceptance of clients and client identification procedure, monitoring of transactions etc.

It was brought to the attention of SEBI, that all documentation related to the investor including Know your Client, Power of Attorney (PoA) in respect of transactions / requests made through some mutual fund distributors is not available with the AMC/ RTA of the AMC and that the same is stated to be maintained by the respective distributors.

Thus, it was reiterated that the requirements as mentioned in the master circular dated December 19, 2008 issued by SEBI was applicable to the Mutual Funds/ AMCs and hence maintaining all the documentation pertaining to the unit holders/investor is the responsibility of the AMC.

Therefore vide SEBI Circular dated December 11, 2009, all the mutual funds and asset management companies were advised to confirm whether all the investor related documents are maintained/ available with them. If not, and to the extent of and relating to such investor accounts/folios where investor related documentation is incomplete/inadequate/ not available, then the trustees of the mutual funds were advised to ensure the following:

- a. No further payment of any commissions, fees and / or payments in any other mode should be made to such distributors till full compliance/ completion of the steps enumerated.
- b. Take immediate steps to obtain all investor/ unit holders documents in terms of the AML/ CFT, including KYC documents / PoA as applicable
- c. Take immediate steps to obtain all supporting documents in respect of the past transactions.
- d. On a one time basis, send statement of holdings and all transactions since inception of that folio in duplicate to the investor and seek confirmation from the unit holders on the duplicate copy.
- e. Set up a separate customer services mechanism to handle/ address queries and grievance of the above mentioned unitholders.
- f. Pending completion of documentation, exercise great care and be satisfied of investor bonafides before authorizing any transaction, including redemption, on such accounts / folios.
- g. The trustees shall forthwith confirm to SEBI that the steps have been taken to address the above and also send a status to SEBI as and when process is completed to satisfaction.

XV. Facilitating transactions in mutual fund schemes through the stock exchange infrastructure

The need for enhancing the reach of mutual fund schemes to more towns and cities has been aired through various forums/ channels. To address this issue, various models have been debated and discussed. The infrastructure that already exists for the secondary market transactions through the stock exchanges with its reach to over 1500 towns and cities, through over 200,000 stock exchange terminals can be used for facilitating transactions in mutual fund schemes. The stock exchange mechanism would also extend the present convenience available to secondary market investors to mutual fund investors.



Vide SEBI circular dated November 13, 2009 it was stated that the units of mutual fund schemes may be permitted to be transacted through registered stock brokers of recognized stock exchanges and such stock brokers will be eligible to be considered as official points of acceptance as per SEBI circular dated October 11, 2006.

The respective stock exchange would provide detailed operating guidelines to facilitate the same. In this regard, SEBI advised the following:

i. Empanelment and monitoring of Code of Conduct for brokers acting as mutual fund intermediaries

The stock brokers intending to extend the transaction in mutual funds through stock exchange mechanism shall be required to comply with the requirements specified in SEBI circular dated September 25, 2001 regarding passing the AMFI certification examination. All such stock brokers would then be considered as empanelled distributors with mutual fund/AMC.

These stock brokers would be required to comply with the requirements in SEBI circulars dated June 26, 2002, November 28, 2002 and August 27, 2009, applicable to intermediaries engaged in selling and marketing of mutual fund units.

It was clarified that, stock exchanges would monitor the compliance of the code of conduct specified in the SEBI circular dated November 28, 2002 regarding empanelment of intermediaries by mutual funds.

ii. Time stamping

Time stamping as evidenced by confirmation slip given by stock exchange mechanism to be considered sufficient compliance with clause 5, 6 and 8 of SEBI Circular dated October 11, 2006.

iii. Statement of Account

Where investor desires to hold units in dematerialised form, demat statement given by depository participant would be deemed to be in adequate compliance with requirements prescribed under regulation 36 of SEBI (Mutual Fund) Regulations, 1996, and SEBI circulars dated November 24, 2000 and November 20, 2006 regarding despatch of statements of account.

iv. Investor grievance mechanism

Stock exchanges would have to provide for investor grievance handling mechanism to the extent they relate to disputes between brokers and their client.

v. Dematerialization of existing units held by investors

In case investors desire to convert their existing physical units (represented by statement of account) into dematerialized form, mutual funds / AMCs shall take such steps in coordination with Registrar and Transfer Agents, Depositories and Depository participants (DPs) to facilitate the same.

vi. Know your client (KYC)

Where investor desires to hold units in dematerialised form, the KYC should be performed by DP in terms of SEBI circular dated August 24, 2004 and this should be considered in compliance with applicable requirements specified in this regard in terms of SEBI circular dated December 19, 2008 by mutual funds /AMCs.

Stock exchanges and mutual funds/AMCs, based on the experience gained may further improve the mechanism in the interest of investors.

Consequent to this market development, NSE introduced the Mutual Fund Service System (MFSS) on November 30, 2009 and BSE introduced its Star MF on December 5, 2009.

XVI. Statement of Additional Information (SAI) & Scheme Information Document (SID) to be made available on SEBI website

Vide SEBI Circular dated September 29, 2009 it was informed to all the mutual funds and the Asset Management Companies (AMCs) that henceforth AMCs would be required to submit a soft copy of SAI within 7 days from September 29, 2009 and a soft copy of SIDs along with printed/final copy two working days prior to the launch of the scheme. Soft copies of these documents are required to be submitted to SEBI in PDF format.

Mutual Funds would be required to update the SID and SAI in terms of clause 5 and clause 6 of SEBI circular dated May 23, 2008. A soft copy of updated SAI and SID is required to be filed with SEBI in PDF format within 7 days along with a printed copy of the same.

Further, in continuation with the current practice of uploading the SAI on AMFI website, AMCs would also be required to upload the soft copy of SID on AMFI website two working days prior to the launch of the scheme. AMC would also have to submit an undertaking to SEBI while filing the soft copy of the aforementioned documents certifying that information contained in the soft copy of SID and SAI (as applicable) to be uploaded on SEBI website is current and relevant and matches exactly with the contents of the hard copy. Further, AMCs would be fully responsible to the content of the soft copy of SID and SAI.

XVII. Systems audit of mutual funds

Considering the importance of systems audit in the technology driven asset management activity, it has been decided by SEBI vide circular dated September 16, 2009, that mutual funds would have a systems audit conducted by an independent CISA/CISM* qualified or equivalent auditor. The systems audit should be comprehensive encompassing audit of systems and processes inter alia related to examination of integration of front office system with the back office system, fund accounting system for calculation of net asset values, financial accounting and reporting system for the AMC, Unit-holder administration and servicing systems for customer service, funds flow process, system processes for meeting regulatory requirements, prudential investment limits and access rights to systems interface.

Accordingly, mutual funds were advised to get the above systems audit conducted once in two years and to place the Systems Audit Report and compliance status before the Trustees of the mutual fund. The systems audit report/findings along with trustee comments should be communicated to SEBI. For the financial years April 2008 – March 2010, the systems audit deadline was kept as September 30, 2010.

XVIII. New code of conduct for mutual funds

Vide SEBI circular dated August 27, 2009 the new code of conduct for mutual funds was made applicable from August 2009 onwards.

XIX. Exit load - Parity among all classes of unit holders

Vide SEBI circular dated May 23, 2008 SEBI has simplified the formats for Offer Document and Key Information Memorandum of Mutual Funds Scheme. The simplified Scheme Information Document format provides that "Wherever quantitative discounts are involved the following shall be disclosed – The Mutual Fund may charge the load within the stipulated limit of 7% and without any discrimination to any specific group of unit holders. However, any change at a later stage shall not affect the existing unit holders adversely."

It was observed that the mutual funds were making distinction between the unit holders by charging differential exit loads based on the amount of subscription. In order to have parity among all classes of unit holders, vide SEBI Circular dated August 7, 2009 it was decided that no distinction among unit holders should be made based on the amount of subscription while charging exit loads.

Then vide SEBI circular dated August 17, 2009 it was conveyed to all the mutual funds that they are expected to ensure compliance with the aforesaid circular on or before August 24, 2009. It was also informed that while complying with above, it should also be ensured that the principle laid down in the SEBI circular dated May 23, 2008 (clause 16 of the

* CISA: Certified Information System Auditor
CISM: Certified Information Security Manager



standard observations) that “any imposition or enhancement in the load shall be applicable on prospective investments only” should be followed and the parity among all classes of unit holders in terms of charging exit load should be made applicable at the portfolio level.

XX. Mutual Funds – empowering investors through transparency in payment of commission and load structure

SEBI has been taking various steps to empower the investors in mutual funds by way of more transparency in the loads borne by the investor so that the investor can take informed investment decisions. Towards this end, SEBI had earlier abolished initial issue expenses and mutual fund schemes were allowed to recover expenses connected with sales and distribution through entry load only. Further, investors making direct applications to the mutual funds were exempted from entry load.

In terms of existing arrangement, though the investor pays for the services rendered by the mutual fund distributors, distributors are remunerated by Asset Management Companies (AMCs) from loads deducted from the invested amounts or the redemption proceeds. SEBI (Mutual Funds) Regulations, 1996 also permit AMCs to charge the scheme (under the annual recurring expense) for marketing and selling expenses including distributor’s commission.

Further, all loads including Contingent Deferred Sales Charge (CDSC) for the scheme are maintained in a separate account and this amount is used by the AMCs to pay commissions to the distributors and to take care of other marketing and selling expenses. It has been left to the AMCs to credit any surplus in this account to the scheme, whenever felt appropriate. In order to incentivise long term investors it is considered necessary that exit loads/CDSCs which are beyond reasonable levels are credited to the scheme immediately.

In order to empower the investors in deciding the commission paid to distributors in accordance with the level of service received, to bring about more transparency in payment of commissions and to incentivize long term investment, it has been decided that:

- a) There would be no entry load for all mutual fund schemes.
- b) The scheme application forms should carry a suitable disclosure to the effect that the upfront commission to distributors will be paid by the investor directly to the distributor, based on his assessment of various factors including the service rendered by the distributor.
- c) Of the exit load or CDSC charged to the investor, a maximum of 1% of the redemption proceeds shall be maintained in a separate account which can be used by the AMC to pay commissions to the distributor and to take care of other marketing and selling expenses. Any balance shall be credited to the scheme immediately.
- d) The distributors should disclose all the commissions (in the form of trail commission or any other mode) payable to them for the different competing schemes of various mutual funds from amongst which the scheme is being recommended to the investor.

Vide circular dated June 30, 2009 it was brought to the notice of all the mutual funds that this would be applicable for following cases from August 1, 2009:

- Investments in mutual fund schemes (including additional purchases and switch-in to a scheme from other schemes),
- Redemptions from mutual fund schemes (including switch-out from other schemes);
- New mutual fund schemes launched on and after August 1, 2009;
- Systematic Investment Plans (SIP) registered on or after August 1, 2009.

XXI. Guidelines for Investment by Mutual Funds in Money Market Instruments

Vide SEBI circular dated June 15, 2009 it was clarified that in case of the existing schemes where the investments in money market instruments of an issuer are not in compliance with the said notification, AMC should ensure compliance within a period of 3 months from the date of notification i.e. June 15, 2009.

XXII. Guidelines for investment by mutual funds in Indian Depository Receipts (IDRs)

In terms of regulation 43(1) of SEBI (Mutual Funds) Regulations 1996 mutual funds are permitted to invest in securities. Vide circular dated June 9, 2009- it was clarified that mutual funds can invest in Indian Depository Receipts [Indian Depository Receipts as defined in Companies (Issue of Indian Depository Receipts) Rules, 2004] subject to compliance with SEBI (Mutual Funds) Regulations 1996 and guidelines issued there under, specifically investment restrictions as specified in the Seventh Schedule of the Regulations.

XXIII. Valuation of debt securities by mutual fund

It was brought to notice of SEBI by AMFI and CRISIL that the current valuation methodology for mutual fund allowed the discretion of -50 basis points (bps) to +100 bps to account for the risks was inadequate as debt securities of similar maturity and credit rating are being traded over wide range of yields. With a view to ensure that the value of debt securities reflects the current market scenario in calculation of net asset value, it was decided to increase the discretion permitted.

Thus, through SEBI circular dated October 18, 2008, SEBI circulars dated September 18, 2000 and February 20, 2002 pertaining to valuation norms for Mutual funds were modified. The discretion of -50 basis points (bps) to +100 bps given to fund managers to value debt securities was found inadequate in the market scenario in October, 2008. With a view to ensure that the value of debt securities reflects the true fundamentals the discretion was modified as under:

Rated Instruments	Initial (Before October 2008)		Changed (After October 18, 2008)	
	+	-	+	-
Duration of up to 2 years	100 bps	50 bps	500 bps	150 bps
Duration over 2 years	75 bps	25 bps	400 bps	100 bps
Unrated Instruments	Initial		Changed	
Duration of up to 2 years	Discretionary discount of up to +50 bps over and above mandatory discount of +50 bps		Discretionary discount of up to +450 bps over and above mandatory discount of +50 bps	
Unrated instruments with duration over 2 years	Discretionary discount of up to +50 bps over and above mandatory discount of +25 bps		Discretionary discount of up to +375 bps over and above mandatory discount of +25 bps	

However, with a view to ensure that the value of debt securities reflects the current market scenario in calculation of net asset value, it was further decided that discretionary mark up and mark down shall be brought to the level as detailed in SEBI circulars dated September 18, 2000 and February 20, 2002. Accordingly, the discretionary mark up and mark down in case of rated debt securities and unrated securities were restored back as it was prior to October 18, 2008. This was conveyed to all the mutual funds vide SEBI circular dated June 12, 2009.

Further, it was also decided that:

- For valuation of securities purchased after June 12, 2009, the discretionary mark up or down limit, as detailed above, should be applied.
- For cases where on June 12, 2009, the increased discretionary mark up or down limit was being used, was supposed to be brought back to the proposed levels as detailed above within a period of two months.
- Chief Executive Officer (whatever his designation may be) of the Asset Management Company shall give prior approval to the use of discretionary mark up or down limit.



Market Design of Mutual Funds

Mutual Fund	Mutual Fund means a fund established in the form of trust to raise money through the sale of units to the public or a section of the public under one or more schemes for investing in securities including money market instruments or gold related instruments or real estate assets.
STRUCTURE OF MUTUAL FUNDS: A typical MF in India has the following constituents:	
Fund Sponsor	A 'sponsor' is a person who, acting alone or in combination with another body corporate, establishes a MF. The sponsor should have a sound financial track record of over five years, have a positive net worth in all the immediately preceding five years and integrity in all his business transactions. In case of an existing MF, such fund which is in the form of a trust and the trust deed has been approved by the Board; the sponsor should contribute at least 40% of the net worth of the AMC (provided that any person who holds 40% or more of the net worth of an asset management company should be deemed to be a sponsor and would be required to fulfill the eligibility criteria specified in the SEBI regulations).
Trustees	Trustees mean the Board of Trustees or the Trustee Company who hold the property of the Mutual Fund in trust for the benefit of the unit holders. The MF can either be managed by the Board of Trustees, which is a body of individuals, or by a Trust Company, which is a corporate body. Most of the funds in India are managed by a Board of Trustees. The trustees are appointed with the approval of SEBI. Two thirds of trustees are independent persons and are not associated with sponsors or be associated with them in any manner whatsoever. The trustees, being the primary guardians of the unit holders' funds and assets, have to be persons of high repute and integrity. The Trustees, however, do not directly manage the portfolio of MF. It is managed by the AMC as per the defined objectives, in accordance with trust deed and SEBI (MF) Regulations.
Asset Management Company (AMC)	The AMC, appointed by the sponsor or the Trustees and approved by SEBI, acts like the investment manager of the Trust. The AMC should have at least a net worth of ₹ 10 crore. It functions under the supervision of its Board of Directors, Trustees and the SEBI. In the name of the Trust, AMC floats and manages different investment 'schemes' as per the SEBI Regulations and the Investment Management agreement signed with the Trustees. The regulations require non-interfering relationship between the fund sponsors, trustees, custodians and AMC. The asset management company is required to obtain to take prior in-principle approval from the recognised stock exchange(s) where units are proposed to be listed.
Custodians	A custodian is appointed for safe keeping the securities or gold related instruments or other assets and participating in the clearing system through approved depository. Custodian also records information on stock splits and other corporate actions. No custodian in which the sponsor or its associate holds 50% or more of the voting rights of the share capital of the custodian or where 50% or more of the directors of the custodian represent the interest of the sponsor or its associates should act as custodian for a mutual fund constituted by the same sponsor or any of its associate or subsidiary company.
Registrar and Transfer Agent	Registrar and transfer agent maintains record of the unit holder's account. A fund may choose to hire an independent party registered with SEBI to provide such services or carryout these activities in-house. If the work relating to the transfer of units is processed in-house, the charges at competitive market rates may be debited to the scheme. The registrar and transfer agent forms the most vital interface between the unit holder and mutual fund. Most of the communication between these two parties takes place through registrar and transfer agent.
Distributors/Agents	To send their products across the length and breadth of the country, mutual funds take the services of distributors/agents. Distributors comprise of banks, non-banking financial companies and other distribution companies.



Registration of Mutual Funds	In order to register with SEBI as a MF, the sponsor has to make an application to SEBI. The sponsor should fulfill the eligibility criteria as prescribed by SEBI.
Regulation of Funds	<p>The MFs are regulated under the SEBI (MF) Regulations, 1996. All the MFs have to be registered with SEBI. The regulations have laid down a detailed procedure for launching of schemes, disclosures in the offer document, advertisements, listing and repurchase of close-ended schemes, offer period, transfer of units, investments, among others.</p> <p>In addition, RBI also supervises the operations of bank-owned MFs. While SEBI regulates all market related and investor related activities of the bank/FI-owned funds, any issues concerning the ownership of the AMCs by banks fall under the regulatory ambit of the RBI.</p> <p>Further, as the MFs, AMCs and corporate trustees are registered as companies under the Companies Act 1956, they have to comply with the provisions of the Companies Act.</p> <p>Many close-ended schemes of the MFs are listed on one or more stock exchanges. Such schemes are, therefore, subject to the regulations of the concerned stock exchange(s) through the listing agreement between the fund and the stock exchange.</p> <p>MFs, being Public Trusts are governed by the Indian Trust Act, 1882, are accountable to the office of the Public Trustee, which in turn reports to the Charity Commissioner, that enforces provisions of the Indian Trusts Act.</p>
Advertisements Code by MFs	As per the MF regulations, advertisements should be truthful, fair and clear, and not contain any statement/promise/forecast, which is untrue or misleading. The sales literature should also contain information, which is included in the current advertisement. Assuming that the investors are not trained in legal or financial matters, it should be ensured that the advertisement is set forth in a clear, concise and understandable manner. Excessive use of technical/legal jargons or complex language, inclusion or exclusion of excessive details, which is likely to detract the investors, should be avoided. Also, standardized computations such as annual dividend on face value, annual yield on the purchase price and annual compounded rate of return should be used.
Investment and Borrowing	<ul style="list-style-type: none"> – A mutual fund scheme should not invest more than 15% of its NAV in debt instruments issued by a single issuer which are rated not below investment grade by a credit rating agency authorised to carry out such activity under the Act. Such investment limit may be extended to 20% of the NAV of the scheme with the prior approval of the Board of Trustees and the Board of asset management company provided that: <ul style="list-style-type: none"> • Such limit should not be applicable for investments in Government securities and money market instruments. • No mutual fund is allowed to invest more that 30% of its net assets in money market instruments of an issuer, however this is not applicable for investments in G-secs, T-bills, Collateralised borrowing and lending obligations. • Further, that investment within such limit can be made in mortgage backed securitised debt which are rated not below investment grade by a credit rating agency registered with SEBI. – A mutual fund scheme should not invest more than 10% of its NAV in unrated debt instruments issued by a single issuer and the total investment in such instruments should not exceed 25% of the NAV of the scheme. All such investments should be made with the prior approval of the Board of Trustees and the Board of asset management company. – No mutual fund under all its schemes should own more than 10% of any company's paid up capital carrying voting rights.



- Transfers of investments from one scheme to another scheme in the same mutual fund should be allowed only if,
 - Such transfers are done at the prevailing market price for quoted instruments on spot basis. 'Spot basis' has the same meaning as specified by stock exchange for spot transactions.
 - The securities so transferred should be in conformity with the investment objective of the scheme to which such transfer has been made.
- A scheme may invest in another scheme under the same asset management company or any other mutual fund without charging any fees, provided that aggregate inter scheme investment made by all schemes under the same management or in schemes under the management of any other asset management company should not exceed 5% of the net asset value of the mutual fund. However, this is not applicable to any fund of funds scheme.
- Every mutual fund should buy and sell securities on the basis of deliveries and should in all cases of purchases, take delivery of relative securities and in all cases of sale, deliver the securities. **A mutual fund may engage in short selling of securities in accordance with the framework relating to short selling and securities lending and borrowing specified by SEBI.** A mutual fund may enter into derivatives transactions in a recognised stock exchange, subject to the framework specified by the Board. Provided further that sale of government security already contracted for purchase shall be permitted in accordance with the guidelines issued by the RBI in this regard.
- Every mutual fund should get the securities purchased or transferred in the name of the mutual fund on account of the concerned scheme, wherever investments are intended to be of long-term nature.
- Pending deployment of funds of a scheme in securities in terms of investment objectives of the scheme a mutual fund can invest the funds of the scheme in short term deposits of scheduled commercial banks.
- No mutual fund (scheme) should make any investment in-
 - any unlisted security of an associate or group company of the sponsor; or
 - any security issued by way of private placement by an associate or group company of the sponsor; or
 - the listed securities of group companies of the sponsor which is in excess of 25% of the net assets.
- No scheme of a mutual fund should make any investment in any fund of funds scheme.
- No mutual fund scheme should invest more than 10% of its NAV in the equity shares or equity related instruments of any company. The limit of 10% should not be applicable for investments in case of index fund or sector or industry specific scheme.
- A mutual fund scheme should not invest more than 5% of its NAV in the unlisted equity shares or equity related instruments in case of open ended scheme and 10% of its NAV in case of close ended scheme.
- A fund of funds scheme will be subject to the following investment restrictions:
 - A fund of funds scheme should not invest in any other fund of funds scheme;
 - A fund of funds scheme should not invest its assets other than in schemes of mutual funds, except to the extent of funds required for meeting the liquidity requirements for the purpose of repurchases or redemptions, as disclosed in the offer document of fund of funds scheme.

TYPES OF MFs/SCHEMES: A wide variety of MFs/Schemes caters to different preferences of the investors based on their financial position, risk tolerance and return expectations.

All schemes of a Mutual Fund are launched by the AMC once it is approved by the trustees and a copy of the offer document has been filed with SEBI. The mutual fund should pay the minimum specified fee to the board while filing the offer document, the balance should be paid within such time as specified by SEBI. The offer document should contain disclosures which are adequate in order to enable investors to make informed investment decision. Advertisement in respect of every scheme should be in conformity with the Advertisement Code. The offer document and advertisement materials should not be misleading or contain any statement or opinion which are incorrect or false.

Funds by Structure/Tenor

Open ended Scheme	An open-ended scheme means any scheme of a mutual fund which offers units for sale without specifying any duration for redemption.
Close ended Scheme	<p>Close ended scheme means any scheme of a mutual fund in which the period of maturity of the scheme is specified. Every close ended scheme other than an equity linked savings scheme are required to be listed on a stock exchange within such time period and subject to such conditions as specified by SEBI.</p> <p>Listing of Close ended schemes: Other than equity linked saving scheme, all close ended schemes are required to be listed on a recognised stock exchange within such time period and subject to such conditions as specified by SEBI. The listing of close ended scheme launched prior to the commencement of SEBI (Mutual Funds) (Amendment) Regulations, 2009 is not mandatory. Listing of close ended schemes is not mandatory if the said scheme provides for periodic repurchase facility to all the unit holders with restriction, if any, on the extent of such repurchase; or if the said scheme provides for monthly income or caters to special classed of persons like senior citizens, women, children, widows or physically handicapped or any special class of persons providing for repurchase of units at regular intervals; or if the details of such repurchase facility are clearly disclosed in the offer document; or if the said scheme opens for repurchase within a period of six months from the closure of subscription or if the said scheme is a capital protection oriented scheme.</p> <p>Repurchase of Close ended Schemes: Units of a close ended scheme, other than equity linked saving scheme launched on or after the commencement of the SEBI (Mutual Funds) (Amendment) Regulations, 2009 shall not be repurchased before the end of maturity period of such scheme. The units of a close ended scheme may be open for sale or redemption at fixed predetermined intervals if the maximum and minimum amount of sale or redemption of the units and the periodicity of such sale or redemption has been disclosed in the offer document. The units of close ended scheme can be converted into open-ended scheme if the offer document of such scheme discloses the option and the period of such conversion; or the unit holders are provided with an option to redeem their units in full and the initial issue expenses of the scheme have been amortised fully in accordance with the tenth schedule of SEBI Mutual Fund Regulations, 1996.</p>
Assured return schemes	Assures a specific return to the unit holders irrespective of performance of the scheme, which are fully guaranteed either by the sponsor or AMC.
Interval Fund	This kind of fund combines the features of open-ended and close-ended schemes, making the fund open for sale or redemption during pre-determined intervals.



Funds by Investment objective/Asset class	
Equity/Growth schemes	Equity/Growth oriented schemes provide capital appreciation over medium to long-term by investing a major part of their corpus in equities.
Debt or income schemes	Debt/Income oriented schemes provide regular and steady income to investors by investing in fixed income securities such as bonds, corporate debentures, government securities and money market instruments. Hence, they are less risky compared to equity schemes.
Balanced Funds	Balanced Funds provide both growth and regular income in both equities and fixed income securities in the specified proportion as indicated in their offer documents.
Liquid Funds	Money market or liquid funds provide easy liquidity and preserve capital, but generate moderate income. As they invest exclusively in safer short-term instruments such as, treasury bills, certificates of deposit, commercial paper, inter-bank call money and government securities.
Physical Assets	Historically, the regulatory framework in India did not permit mutual funds to invest in physical assets. A significant change was made in January 2006, when SEBI permitted gold exchange traded fund schemes that would invest in gold and gold related instruments. Mutual Funds have also been permitted to invest in real estate since May 2008.
Sector Funds	Sector funds invest in securities of only those sectors or industries such as pharmaceuticals, software, energy, banking etc.
Fund of Funds	Fund of funds (FoF) is a scheme that invests primarily in other schemes of the same mutual fund or other mutual funds. A FoF scheme enables the investors to achieve greater diversification through one scheme.

Index Funds

Index funds replicate the portfolio of a particular index such as the S&P CNX Nifty. This is done by investing in all the stocks that comprise the index in proportions equal to the weightage given to those stocks in the index. The value of the fund is linked to the chosen index so that if the index rises so will the value of the fund. Conversely, if the index falls so will the value of the fund.

Unlike a typical MF, index funds do not actively trade stocks throughout the year. They may at times hold their stocks for the full year even if there are changes in the composition of index; this reduces transaction costs. Index funds are considered, appropriate for conservative long term investors who are looking at moderate risk, moderate return arising out of a well-diversified portfolio. Since index funds are passively managed, the bias of the fund managers in stock selection is reduced, yet providing returns at par with the index.

Exchange Traded Funds

ETFs refer to a diversified basket of securities that are traded in real time like an individual stock on an exchange. Unlike regular open-end mutual funds, ETFs can be bought and sold throughout the trading day like any stock. An ETF is similar to an index fund, but the ETFs can invest in either all of the securities or a representative sample of securities included in the index. ETFs first came into existence in the USA in 1993. Over the last few years, more than \$120 billion (as on June 2002) is invested in about 230 ETFs. About 60% of trading volumes on the American Stock Exchange are from ETFs. The most popular ETFs are QQQs (Cubes) based on the Nasdaq-100 Index, SPDRs (Spiders) based on the S&P 500 Index, iSHARES based on MSCI Indices and TRAHK (Tracks) based on the Hang Seng Index and DIAMONDS based on Dow Jones Industrial Average (DJIA). The average daily trading volume in QQQ is around 89 million shares.

Like index funds, ETFs are also passively managed funds wherein subscription/redemption of units implies exchange with underlying securities. These being exchange traded, units can be bought and sold directly on the exchange, hence, cost of distribution is much lower and the reach is wider. These savings are passed on to the investors in the form of lower costs. The structure of ETFs is such that it protects long-term investors from inflows and outflows of short-term investor. ETFs are highly flexible and can be used as a tool for gaining instant exposure to the equity markets.

A gold exchange traded fund unit is like a mutual fund unit whose underlying asset is Gold and is held in demat form. It is typically an Exchange traded Mutual Fund unit which is listed and traded on a stock exchange. Every gold ETF unit is representative of a definite quantum of pure gold and the traded price of the gold unit moves in tandem with the price of the actual gold metal. The GETF aims at providing returns which closely correspond to the returns provided by Gold.

Collective Investment Schemes

A Collective Investment Scheme (CIS) is any scheme or arrangement made or offered by any company, which pools the contributions, or payments made by the investors, and deploys the same. Despite the similarity between the CIS and MF regarding the pooling of savings and issuing of securities, they differ in their investment objective. While MF invests exclusively in securities, CIS confine their investment to plantations and real estate. Any entity proposing to operate as a Collective Investment Management Company (CIMC) has to apply for registration with SEBI.

The Collective Investment Scheme is well established in many jurisdictions and now serves as an investment vehicle for a wide range of investment opportunities around the world. The International Organization of Securities Commission (IOSCO) has, in its Report on Investment Management of the Technical Committee, defined the Collective Investment Schemes (CIS), as “an open ended collective investment scheme that issues redeemable units and invests primarily in transferable securities or money market instruments”.

Guidelines under CIS Regulations

The SEBI (CIS) Regulations specifically state that, without obtaining a certificate of registration from SEBI, no entity can carry on or sponsor or launch a CIS. The other regulations are as follows:

- i. CIS should be set up and registered as a public company registered under the provisions of the Companies Act, 1956 and the memorandum of association should specify management of CIS as one of its objectives.
- ii. The company at the time of registration as CIMC should have a minimum net worth of ₹ 5 crore (provided that at the time of making the application, the applicant should have a minimum net worth of ₹ 3 crore which should be increased to ₹ 5 crore within three years from the date of grant of registration).
- iii. The offer document should disclose adequate information to enable investors to take informed decisions. The offer document should also indicate the maximum and minimum amount expected to be raised. No scheme should be kept open for subscription for a period more than 90 days.
- iv. Each scheme has to obtain a rating from a recognized credit rating agency and the projects to be undertaken should be appraised by an appraising agency.
- v. CIMC should obtain adequate insurance policy for protection of the scheme's property.
- vi. Advertisements for each and every scheme have to conform to the SEBI's advertisement code.
- vii. The CIMC should issue to the applicant whose application has been accepted, unit certificates as soon as possible but not later than six weeks from the date of closure of the subscription list: provided if the units are issued through a depository, a receipt in lieu of unit certificate will be issued as per provisions of SEBI (Depositories and Participants) Regulations, 1996 and bye laws of the depository.
- viii. The units of every scheme should be listed immediately after the date of allotment of units and not later than six weeks from the date of closure of the scheme on each of the stock exchanges as mentioned in the offer document.



- ix. A scheme should be wound up on the expiry of duration specified in the scheme or on the accomplishment of the purpose of the scheme. A scheme may also be wound up on the happening of any such event which in the opinion of the trustee. The scheme can also be wound up if unit holders of a scheme holding three-fourth of the nominal value of the unit capital pass a resolution to that effect or if in the opinion of the CIMC, the purpose of the scheme cannot be accomplished then through the approval of least three-fourth of the nominal value of the unit capital of the scheme. However, for winding up the schemes, SEBI approval has to be obtained. Further, if in SEBI's opinion the continuation of the scheme would be prejudicial to the interest of unit holders then the scheme can be wound up. When a scheme is to be wound up then the trustee should give notice disclosing the circumstances leading to such a decision in a daily newspaper having nationwide circulation and in the newspaper published in the language of the region where the Collective Investment Management Company is registered.

The trustee should dispose of the assets of the scheme concerned in the best interest of the unit holders of that scheme. If the scheme is wound up because of happening of any event which in opinion of the trustee requires the scheme to be wound up then the proceeds realized should be utilized towards the discharge of such liabilities as are due and payable under the scheme and after making appropriate provision for meeting the expenses connected with such winding up, the balance should be paid to the unit holder in proportion to their unit holding.

After completion of winding up, the trustees have to forward to SEBI and the unit holders the report on steps taken for realization of assets of the scheme, expenses for winding up and net assets available for distribution to the unit holders and a certificate from the auditors of the scheme certifying that all the assets of the scheme have been realized and the details of the distribution of the proceeds.

The unclaimed money if any at the time of winding up should be kept separately in a bank account by the trustee for a period of three years for the purpose of meeting investors' claims and thereafter should be transferred to investor protection fund, as may be specified by SEBI.

- x. The CIMC on behalf of the scheme should before the expiry of one month from the close of each quarter that is 31st March, 30th June, 30th September and 31st December publish its unaudited financial results in one daily newspaper having nation wide circulation and in the regional newspaper of the region where the head office of the CIMC is situated.

As on September 30, 2010, there were two CIS entity registered with SEBI.

VENTURE CAPITAL FUNDS

Venture Capital Fund (VCF) is a fund established in the form of a trust or a company including a body corporate having a dedicated pool of capital, raised in the specified manner and invested in Venture Capital Undertakings (VCUs). VCU is a domestic company whose shares is not listed on a stock exchange and is engaged in a business for providing services, production, or manufacture of article. A company or body corporate to carry on activities as a VCF has to obtain a certificate from SEBI and comply with the regulations prescribed in the SEBI (Venture Capital Regulations) 1996.

Regulations for VCFs

The salient features of the SEBI (Venture Capital Regulations), 1996 are as follows:

- i. A venture capital fund may raise money from any investor whether India, Foreign or non-resident Indian by way of issue of units. No venture capital fund set up as a company or any scheme of a venture capital fund Set up as a trust should accept any investment from any investor which is less ₹ 0.5 million (5 lakh). However, this does not apply for investors who are employees or the principal officer or directors of the venture capital fund or directors of the trustee company or trustees where the venture capital fund has been established as a trust and the employees of the fund manager or asset management company. Each scheme launched or set up by a venture capital fund should have firm commitment from the investors for contribution of an amount of at least Rupees fifty million or (₹5 crore) before the start of the operations by the VCF.

- ii. The VCF is eligible to participate in the IPO through book building route as Qualified Institutional Buyer.
- iii. Automatic exemption is granted from open offer requirements in case of transfer of shares from VCFs in Foreign Venture Capital Investors (FVCIs) to promoters of a venture capital undertaking.

Investment Condition & Restrictions

- i. The VCF has to disclose the investment strategy at the time of application for registration and should not have invested more than 25% corpus of the fund in any one VCU.
- ii. Venture Capital Fund may invest in securities of foreign companies subject to such conditions or guidelines that may be stipulated or issued by the RBI and SEBI from time to time.
- iii. A VCF, also, cannot invest in associated companies.
- iv. Venture capital fund should make investment as enumerated below:
 - a. At least 66.67% of the investible funds should be invested in unlisted equity shares or equity linked instruments of venture capital undertakings.
 - b. Not more than 33.33% of the investible funds may be invested by way of
 - subscription to Initial Public Offer (IPO) of a VCU whose shares are proposed to be listed.
 - debt or debt instrument of a VCU in which the VCF has already made an investment by way of equity.
 - Preferential allotment of equity shares of a listed company subject to lock-in-period of one year.
 - The equity shares or equity linked instruments of a financially weak company or a sick industrial company whose shares are listed. For these regulations, a financially weak company or a sick industrial company means a company, which has at the end of the previous financial year accumulated losses, which has resulted in erosion of more than 50% but less than 100% of its networth as at the beginning of the previous financial year.
 - Special Purpose Vehicles (SPVs) which are created by a venture capital fund for the purpose of facilitating or promoting investment in accordance with these Regulations.

The investment conditions and restrictions stipulated above should be achieved by the venture capital fund by the end of its life cycle.
- v. The venture capital fund should disclose the duration of life cycle of the fund.

Prohibition on Listing:

No venture capital fund is entitled to get its units listed on any recognized stock exchange till the expiry of three years from the date of the issuance of units by the venture capital fund.

Market Outcome

Number of Mutual Fund and New Fund Offers

At the end of March 2010 the number of registered MFs with the SEBI stood at 47 and it went up by a single member at the end of September 2010. As against 551 schemes in the year 2008-09, 174 new schemes were launched in 2009-10, of which 54 were open-ended and 120 were close-ended schemes. Aggregate sales of all the 174 schemes amounted to ₹ 361,660 million. The redemptions during the year were at ₹ 99,359,420 million.



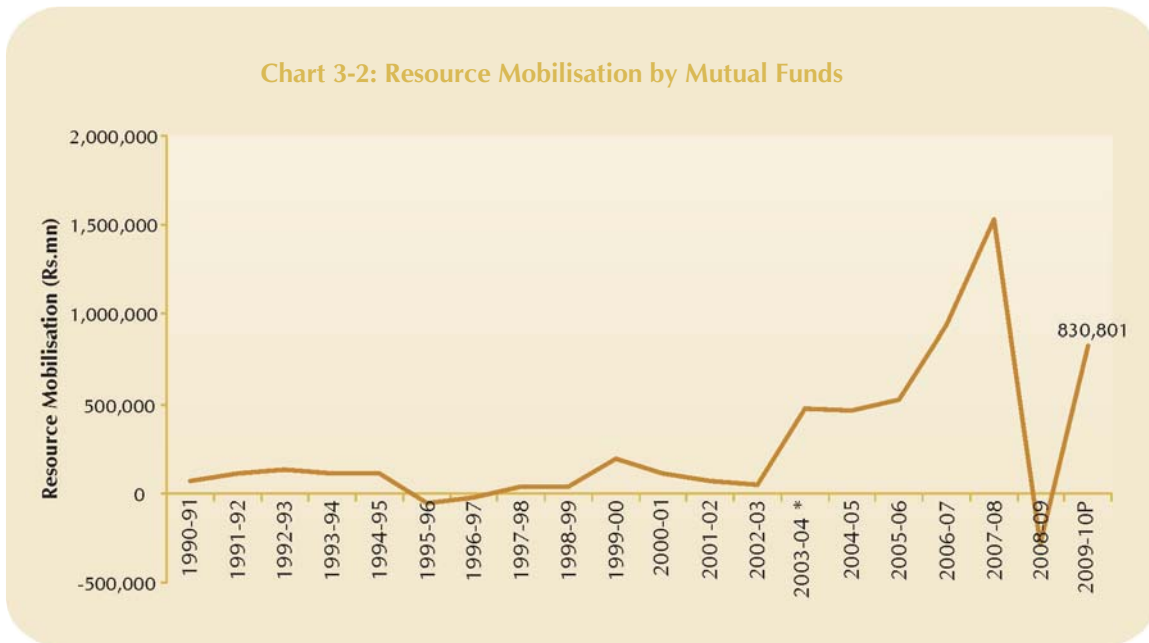
Resource Mobilisation

The MF vehicle is quite popular with investors who are wary of directly investing in the securities markets. The popularity of the MFs as an investment avenue is clearly visible from the data presented in (Table 3-1). The resource mobilization through the mutual fund route can be seen in Chart 3-2. Maximum resource mobilization was witnessed in 2007-08 which saw huge investments in MFs.

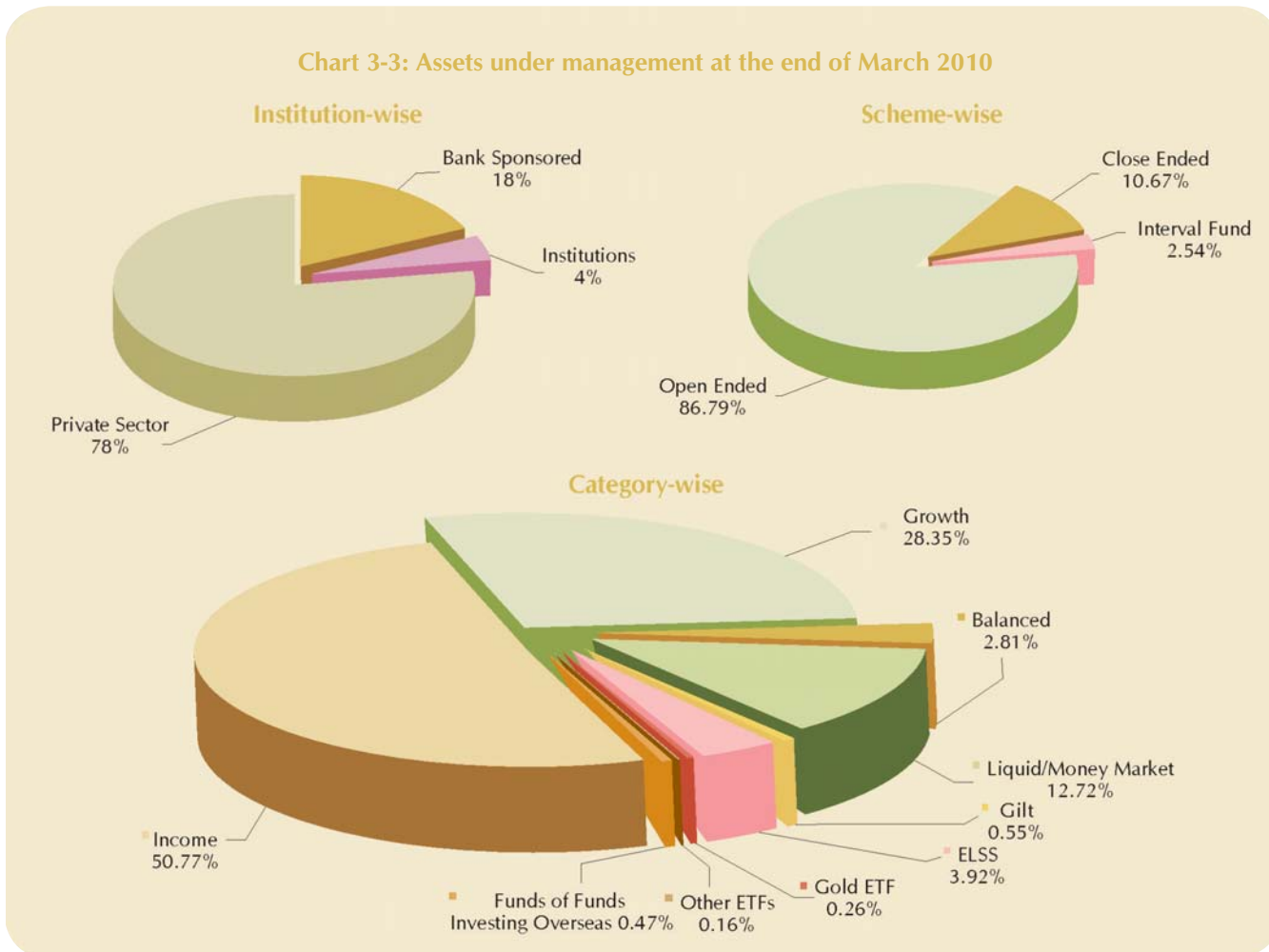
Table 3-1: Resource Mobilisation by Mutual Funds

Year	Public Sector MFs			Private Sector MFs	Grand Total	
	Bank sponsored	FI sponsored	UTI		(₹ mn.)	(US \$ mn.)
1990-91	23,520	6,040	45,530	-	75,090	4,186
1991-92	21,400	4,270	86,850	-	112,520	4,598
1992-93	12,040	7,600	110,570	-	130,210	4,496
1993-94	1,480	2,390	92,970	15,600	112,440	3,584
1994-95	7,650	5,760	86,110	13,220	112,740	3,587
1995-96	1,130	2,350	-63,140	1,330	-58,330	-1,698
1996-97	60	1,370	-30,430	8,640	-20,360	-567
1997-98	2,370	2,030	28,750	7,490	40,640	1,028
1998-99	2,310	6,910	1,700	25,190	36,110	851
1999-00	1,560	3,570	45,480	148,920	199,530	4,574
2000-01	----- 15,200-----		3,220	92,920	111,350	2,387
2001-02	----- 14,740-----		-72,840	129,470	71,370	1,463
2002-03	-----18,950-----		-94,340	121,220	45,830	965
2003-04 *	-----37,610-----		10,500*	428,730	476,840	10,990
2004-05	-----16,670-----		25,970	425,450	468,090	10,699
2005-06	-----98,020-----			429,770	527,790	11,815
2006-07	-----149,470-----			790,380	939,850	21,561
2007-08	-----204,980-----			1,333,040	1,538,020	38,479
2008-09	-----57,213-----			-340,180	-282,967	-5,554
2009-10P	-----281,520-----			549,281	830,801	18,405

Source: RBI



The following paragraphs show the resource mobilization by mutual funds through various ways such as institution wise, scheme wise and category wise.



Institution-wise Resource Mobilisation

The resource mobilization through the route of mutual funds is done broadly by three categories such as Banks, Private Sector and Institutions. The structure of the institution wise resource mobilization is depicted in table 3-2-A and table 3-2-B which gives their details of sales, purchases (redemptions) and assets under management.

The private sector MFs accounted for 78% of resource mobilization (sales) by MF industry during 2009-10. These private sector MFs witnessed a net inflow of ₹ 536,410 million (US \$ 11,883 million) in 2009-10 as compared to a net outflow of ₹ 345,720 million (US \$ 6,785 million) in 2008-09.

During the year 2009-10, bank sponsored MFs mobilized resources worth ₹ 14,279,900 million which was 84.56% higher than the resource mobilization of ₹ 7,737,280 million in year 2008-09. The bank sponsored schemes accounted for 18.33% of the total resource mobilization in 2009-10. In net terms, the bank sponsored MFs witnessed an inflow of ₹ 245,690 million (US \$ 5443 million) in 2009-10.

Resource Mobilisation as per Maturity Period/Tenor

The share of open-ended schemes in the total sales of mutual funds in 2009-10 continued to dominate over other schemes such as close-ended and interval funds. The share of open-ended schemes in total sales of Mutual funds was 99.57% in 2009-10 as compared to its share of 96.96% in 2008-09. The close ended schemes saw a year-on-year increase in sales of 89.61% in 2009-10 over its previous fiscal year. The details of the sales and redemptions of the Mutual funds based on the tenor for 2008-09 and 2009-10 and the first half of 2010-11 are presented in table 3-3-A and table 3-3-B respectively.

Resource Mobilisation as per Investment Objective

The liquid/money market schemes have become very popular among investors due to the attractive returns delivered by them. They accounted for 70.31% of the gross resource mobilization in 2009-10. During the current fiscal the sale as well as repurchase has been the highest in case of these schemes resulting in a net outflow of ₹ 120,730 million (US \$ 2,675 million). The liquid/money market schemes continue to perform better in the first-half of 2010-11 with a net inflow of ₹ 201,170 million.

The Income/Debt Oriented Schemes which provide regular and steady income to investors by investing in fixed income securities such as bonds, corporate debentures, government securities and money market instruments are also popular among investors and accounted for 28.9% of the total sales of all the schemes in 2009-10. This scheme has resulted in the highest net inflow of ₹ 965,780 million (US \$ 21,395 million).

The Growth scheme was the second highest in terms of net inflows and accounted for 28.35% of the net resources raised. The Scheme-wise resource mobilisation by Mutual Funds for 2008-09, 2009-10 and for the first-half of 2010-11 is depicted in Table 3-3-B.

Assets under Management

As on March 31, 2010, the MFs have managed assets of ₹ 6,139,790 million (US \$ 136,017 million). As shown in Table 3-2, the share of private sector MFs in total assets decreased to 77.58% at end March 2010 from 80.26% in March 2009. The open ended schemes and the close ended schemes as at end-March 2010 accounted for 86.79% and 10.67% of total assets under management of MFs, respectively (Table 3-4) and (Chart 3-3).

The income schemes accounted for 50.77% of total assets under management as at end-March 2010, followed by growth schemes with 28.35%. The liquid/money market schemes accounted for 12.72% of assets under management of MFs as at end-March 2010 (Chart 3-3).

Table 3-2 A: Accretion of Funds with Mutual Funds

Category	2008-09			2009-10			Assets Under Management		
	Sale (₹ mn)	Purchase (₹ mn)	Net (₹ mn)	Sale (₹ mn)	Purchase (₹ mn)	Net (₹ mn)	March-09 (₹ mn)	March-10 (₹ mn)	March-10 (US \$ mn)
A Bank Sponsored	7,737,280	7,734,070	3,210	63	14,279,900	245,690	645,590	1,125,350	24,930
i. Joint Ventures - Predominantly Indian	3,474,050	3,439,800	34,250	672	4,515,330	76,280	261,460	440,070	9,749
ii. Joint Ventures- Foreign	31,920	26,370	5,550	109	946,060	12,880	6,120	20,770	460
iii. Others	4,231,310	4,267,900	(36,590)	(718)	8,818,510	156,530	378,010	664,510	14,721
B Institutions	3,630,660	3,571,120	59,540	1,169	9,871,550	48,710	178,250	251,050	5,562
C Private Sector (i+ii+iii+iv)	42,895,590	43,241,310	(345,720)	(6,785)	76,038,780	536,410	3,349,160	4,763,390	105,525
i. Indian	17,825,520	18,065,500	(239,980)	(4,710)	36,873,550	250,840	1,301,480	1,869,800	41,422
ii. Joint Ventures- Predominantly Indian	18,758,720	18,659,480	99,240	1,948	34,009,120	338,070	1,532,620	2,252,480	49,900
iii. Joint Ventures - Predominantly Foreign	3,737,720	3,879,590	(141,870)	(2,784)	2,863,120	(70,370)	202,160	187,640	4,157
iv. Foreign	2,573,630	2,636,740	(63,110)	(1,239)	2,292,990	17,870	312,900	453,470	10,046
Grand Total (A + B + C)	54,263,530	54,546,500	(282,970)	(5,554)	100,190,230	830,810	4,173,000	6,139,790	136,017

Source: AMFI Updates

Table 3-2 B: Accretion of Funds with Mutual Funds

Category	April 10 - September 10			Assets Under Management at the end of		
	Sale (₹ mn)	Purchase (₹ mn)	Net (₹ mn)	September - 10 (₹mn)	September - 10 (US \$ mn)	September - 10 (US \$ mn)
A Bank Sponsored	8,056,490	8,170,710	-114,220	-2,543	1,092,380	24,318
i. Joint Ventures - Predominantly Indian	3,131,710	3,162,250	-30,540	-680	444,390	9,893
ii. Joint Ventures- Predominantly Foreign	520,990	522,500	-1,510	-34	20,120	448
ii. Others	4,403,790	4,485,960	-82,170	-1,829	627,870	13,978
B Institutions	3,453,160	3,532,410	-79,250	-1,764	173,720	3,867
C Private Sector (i+ii+iii+iv)	35,228,320	35,039,370	188,950	4,206	5,307,030	118,144
i. Indian	16,543,190	16,482,740	60,450	1,346	2,051,240	45,664
ii. Joint Ventures- Predominantly Indian	15,896,450	1,157,720	14,738,730	328,111	2,513,110	55,946
iii. Joint Ventures - Predominantly Foreign	1,588,140	15,810,700	-14,222,560	-316,620	202,610	4,510
iv. Foreign	1,200,540	1,588,210	-387,670	-8,630	540,070	12,023
Grand Total (A + B + C)	46,737,970	46,742,490	-4,520	-101	6,573,130	146,330

Source: AMFI Updates



Table 3-3A: Resource Mobilisation by Mutual Funds- based on the Tenor of the Scheme

Scheme	2008-09				2009-10				2010-11 (April 2010 - September 2010)			
	Sale	Purchase	Sale	Purchase	Sale	Purchase	Sale	Purchase	Sale	Purchase	Sale	Purchase
	(₹ Mn.)	(US \$ mn.)	(₹ Mn.)	(US \$ mn.)	(₹ Mn.)	(US \$ mn.)	(₹ Mn.)	(US \$ mn.)	(₹ Mn.)	(US \$ mn.)	(₹ Mn.)	(US \$ mn.)
Open-ended	52,614,290	52,333,010	1,032,665	1,027,144	99,763,640	98,697,360	2,210,094	2,186,472	21,068,990	21,318,070	469,034	474,579
Close-ended	1,110,080	1,451,990	21,788	28,498	255,510	616,820	5,660	13,665	199,130	65,970	4,433	1,469
Assured Return	--	--	--	--	--	--	--	--	--	--	--	--
Interval fund *	539,160	761,500	10,582	14,946	171,080	45,240	3,790	1,002	198,480	122,550	4,419	2,728
Total	54,263,530	54,546,500	1,065,035	1,070,589	100,190,230	99,359,420	2,219,544	2,201,139	21,466,600	21,506,590	477,885	478,775

Source : AMFI Updates

* This category was introduced since April 2008, some of the existing schemes were reclassified

Table 3-3B: Scheme-wise Resource Mobilisation by Mutual Funds

Scheme	2008-09				2009-10				2010-11 (April 2010-September 2010)			
	Sale	Purchase	Net Inflow/ (Outflow)	Net Inflow/ (Outflow)	Sale	Purchase	Net Inflow/ (Outflow)	Net Inflow/ (Outflow)	Sale	Purchase	Net Inflow/ (Outflow)	Net Inflow/ (Outflow)
	(₹ mn.)	(₹ mn.)	(US \$ mn.)	(US \$ mn.)	(₹ mn.)	(₹ mn.)	(US \$ mn.)	(US \$ mn.)	(₹ mn.)	(₹ mn.)	(US \$ mn.)	(US \$ mn.)
Income	11,806,940	12,128,620	(321,680)	(6,314)	28,959,010	27,993,230	965,780	21,395	5,378,220	5,494,230	(116,010)	(2,583)
Growth	294,810	284,250	10,560	207	611,140	605,190	5,950	132	157,340	290,350	(133,010)	(2,961)
Balanced	26,950	26,350	600	12	46,930	53,860	(6,930)	(154)	22,860	23,450	(590)	(13)
Liquid/ Money Market	41,879,770	41,915,760	(35,990)	(706)	70,448,180	70,568,910	(120,730)	(2,675)		15,668,680	201,170	4,478
Gilt	146,960	110,900	36,060	708	39,740	72,710	(32,970)	(730)	12,470	6,310	6,160	137
ELSS-Equity	33,240	3,560	29,680	583	36,010	20,470	15,540	344	5,110	10,470	(5,360)	(119)
GOLD ETFs	2,710	1,870	840	16	9,970	1,930	8,040	178	9,710	1,270	8,440	188
Other ETFs *	54,480	65,300	(10,820)	(212)	25,380	25,580	(200)	(4)	9,780	6,500	3,280	73
Funds of Funds	17,670	9,890	7,780	153	13,870	17,540	(3,670)	(81)	1,260	5,330	(4,070)	(91)
Investing Overseas **												
Total	54,263,530	54,546,500	(282,970)	(5,554)	100,190,230	99,359,420	830,810	18,405	21,466,600	21,506,590	(39,990)	(890)

Source: AMFI Updates

* This scheme was earlier classified as Growth Funds and included in that category

** Funds of Funds is a scheme wherein the assets are invested in the existing schemes of mutual funds, for the earlier years the data was included in the other schemes.

Since the quarter data on Funds of Funds investing overseas is shown separately and data on Funds of Funds domestic is included in the other schemes.



Table 3-4: Assets under Management

Scheme	At the end of March 2010						At the end of September 2010					
	Open Ended	Close Ended	Interval Fund	Total	Total	% to total	Open Ended	Close Ended	Interval Fund ***	Total	Total	% to total
	(₹ mn.)				(US \$ mn)		(₹ mn.)				(US \$ mn)	
Income	2,547,920	415,790	153,440	3,117,150	69,055	50.77	2,459,550	520,410	246,290	3,226,250	71,822	49.08
Growth	1,546,670	191,570	2,300	1,740,540	38,559	28.35	1,710,500	143,630	710	1,854,840	41,292	28.22
Balanced	156,180	16,280	--	172,460	3,821	2.81	181,560	12,520	--	194,080	4,321	2.95
Liquid/Money Market	780,940	--	--	780,940	17,300	12.72	915,160	--	--	915,160	20,373	13.92
Gilt	33,950	--	--	33,950	752	0.55	38,600	--	--	38,600	859	0.59
ELSS	209,110	31,550	--	240,660	5,331	3.92	240,630	34,110	--	274,740	6,116	4.18
Gold ETF	15,900	--	--	15,900	352	0.26	28,490	--	--	28,490	634	0.43
Other ETFs *	9,570	--	--	9,570	212	0.16	16,100	--	--	16,100	358	0.24
Funds of Funds Investing Overseas **	28,620	--	--	28,620	634	0.47	24,870	--	--	24,870	554	0.38
Total	5,328,860	655,190	155,740	6,139,790	136,017	100.00	5,615,460	710,670	247,000	6,573,130	146,330	100.00

Source: AMFI Updates.

* This scheme was earlier classified as Growth Funds and included in that category

** Funds of Funds is a scheme wherein the assets are invested in the existing schemes of mutual funds, for the earlier years the data was included in the other schemes. Since the quarter data on Funds of Funds investing overseas is shown separately and data on Funds of Funds domestic is included in the other schemes.

*** This category was introduced since April 2008.

Mutual Fund Service System (MFSS)

In November 2009, SEBI allowed transaction in Mutual Fund schemes through the Stock Exchange infrastructure. Consequent to this market development, NSE launched India's first Mutual fund Service System (MFSS) on November 30, 2009 through which an investor can subscribe or redeem units of a mutual fund scheme. MFSS is an online order collection system provided by NSE to its eligible members for placing subscription or redemption orders on the MFSS based on orders received from the investors. This has made buying and selling of mutual funds easier for investors. The subscription/redemption request would thereafter get processed and investor would know about status of the request only in the form of direct communication from Mutual Fund/AMC/RTA. The NSE MFSS facilitates entry of both buy and sell orders. With the MFSS, investors can place an order through a registered NSE member who is eligible to participate in MFSS for subscription/redemption of units. In order to subscribe units, members are required to place buy orders. A member who wishes to redeem units of mutual fund scheme will be required to place sell orders in the system. While putting their subscription / redemption requests on the MFSS, Participants can choose between physical mode and depository mode. All orders are settled on order to order basis, on T+1 (working days).

As many as 17 fund houses have joined the NSE MFSS Platform and as on March 31, 2010 and there were 908 sub schemes available for trading. During November 2009 to March 2010, there were 2,392 orders placed for subscription worth ₹ 91,932,291 and 274 orders worth ₹ 26,217,352 were redeemed. The trend moved northwards in the April-July period of 2010-11 where 3,695 orders were placed for subscription worth ₹ 309,408,436 and 488 orders worth ₹ 55,020,097 were redeemed.



Table 3-5: MFSS Trade Statistics

Date	Subscription		Redemption		Total orders
	No of orders	Total subscription amount (₹)	No of orders	Total redemption amount (₹)	
November 2009-March 2010	2392	91,932,291	274	26,217,352	2666
(April-July 2010)*	3695	309,408,436	488	55,020,097	4183

*: Data not available for August and September 2010

Unit Holding Pattern of Mutual Funds

The unit holding pattern of mutual funds, as depicted in table 3-6, shows that number of individual investors stood at 46,327,683 at end-March 2010 which accounted for 97.07% of the total number of investor accounts. It was followed by NRIs which constituted a meager 1.98% of the total number of investor accounts. On the other hand, the corporate/institutions accounted for 54.75% of the net assets of the MF industry in 2009-10 followed by individuals which accounted for 39.77%. The individual investors saw the highest increase in net assets among the four categories with a y-o-y growth of 58.03% in 2009-10.

Table 3-6: Unit Holding Pattern of Mutual Funds

Category	Number of Investor Accounts			Net Assets (₹ mn)		
	2008-09	2009-10	Y-o-Y Increase	2008-09	2009-10	Y-o-Y Increase
Individuals	46,075,763	46,327,683	0.55	1,552,830	2,453,900	58.03
NRIs	971,430	943,482	-2.88	228,210	274,280	20.19
FIIIs	146	216	47.95	49,840	63,350	27.11
Corporate/Institutions/Others	575,938	452,330	-21.46	2,362,330	3,378,120	43.00
Total	47,623,277	47,723,711	0.21	4,193,210	6,169,650	47.13

Index Funds

As of end September 2010, there were 44 index funds in the mutual fund industry. The performance of these ETFs (in terms of returns – 3 months, 6 months and 12 months) along with their details such as their date of launch and their underlying index is depicted in table 3-7. Comparison of Nifty based index funds with Nifty is depicted in chart 3-4A and chart 3-4B while, comparison of Sensex based index funds with Sensex is depicted in chart 3-5.

Table 3-7: Performance of Index Funds

Index Funds - Schemewise		Launch Date	Benchmark Index	Returns (in %)		
				3M	6M	12M
1	Benchmark S&P CNX 500 Fund - Dividend	6-Jan-09	S&P CNX 500	11.48	14.21	-26.65
2	Benchmark S&P CNX 500 Fund - Growth	6-Jan-09	S&P CNX 500	11.48	-28.56	-26.67
3	Birla Sun Life Index Fund - Dividend	18-Sep-02	Nifty 50	13.58	-35.00	-33.37
4	Birla Sun Life Index Fund - Growth	18-Sep-02	Nifty 50	13.58	-74.87	-74.22
5	Canara Robeco Nifty Index - Dividend	8-Oct-04	Nifty 50	13.26	-28.65	-26.66
6	Canara Robeco Nifty Index - Growth	8-Oct-04	Nifty 50	13.32	-52.63	-51.33
7	Franklin India Index Fund - BSE Sensex Plan - Dividend	26-Mar-04	Sensex	13.47	-73.32	-72.80

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	Index Funds - Schemewise	Launch Date	Benchmark Index	Returns (in %)		
				3M	6M	12M
8	Franklin India Index Fund - BSE Sensex Plan - Growth	26-Mar-04	Sensex	13.47	-73.32	-72.80
9	Franklin India Index Fund - NSE Nifty Plan - Dividend	4-Aug-00	Nifty 50	13.56	-68.14	-67.25
10	Franklin India Index Fund - NSE Nifty Plan - Growth	26-Mar-04	Nifty 50	13.56	-68.14	-67.25
11	HDFC Index Fund - Nifty Plan	17-Jul-02	Nifty 50	13.40	-71.32	-70.62
12	HDFC Index Fund - Sensex Plan	17-Jul-02	Sensex	13.74	-91.00	-90.86
13	HDFC Index Fund - Sensex Plus Plan	17-Jul-02	Sensex	14.47	-93.62	-93.40
14	ICICI Prudential Index Fund	26-Feb-02	Nifty 50	13.72	-72.87	-72.12
15	ICICI Prudential Nifty Junior Index Fund - Dividend	29-Jun-10	CNX Nifty Junior	11.27	--	--
16	ICICI Prudential Nifty Junior Index Fund - Growth	29-Jun-10	CNX Nifty Junior	11.27	--	--
17	IDBI Nifty Index Fund - Dividend	30-Jun-10	Nifty 50	11.72	--	--
18	IDBI Nifty Index Fund - Growth	30-Jun-10	Nifty 50	13.03	--	--
19	IDBI Nifty Junior Index Fund - Dividend	20-Sep-10	CNX Nifty Junior	--	--	--
20	IDBI Nifty Junior Index Fund - Growth	20-Sep-10	CNX Nifty Junior	--	--	--
21	IDFC Nifty Fund - Dividend	3-May-10	Nifty 50	13.52	--	--
22	IDFC Nifty Fund - Growth	3-May-10	Nifty 50	13.40	--	--
23	ING Nifty Plus Fund - Dividend	23-Feb-04	Nifty 50	12.72	-24.50	-22.03
24	ING Nifty Plus Fund - Growth	23-Feb-04	Nifty 50	12.76	-49.67	-48.03
25	JM Nifty Plus Fund - Dividend	2-Feb-09	Nifty 50	13.69	-13.78	-21.40
26	JM Nifty Plus Fund - Growth	2-Feb-09	Nifty 50	13.66	-21.51	-21.40
27	LIC MF Index Fund - Nifty Plan - Dividend	6-Dec-02	Nifty 50	13.59	22.86	26.73
28	LIC MF Index Fund - Nifty Plan - Growth	6-Dec-02	Nifty 50	13.60	-54.68	-53.25
29	LIC MF Index Fund - Sensex Advantage Plan - Div	6-Dec-02	Sensex	12.63	20.71	3.84
30	LIC MF Index Fund - Sensex Advantage Plan - Growth	6-Dec-02	Sensex	12.63	-57.29	-56.99
31	LIC MF Index Fund - Sensex Plan - Dividend	6-Dec-02	Sensex	13.62	17.44	19.81
32	LIC MF Index Fund - Sensex Plan - Growth	6-Dec-02	Sensex	13.62	-59.76	-58.95
33	PRINCIPAL Index Fund - Dividend	26-Jul-99	Nifty 50	13.48	-37.71	-35.96
34	PRINCIPAL Index Fund - Growth	26-Jul-99	Nifty 50	13.43	-63.41	-62.39
35	SBI Magnum Index Fund - Dividend	17-Jan-02	Nifty 50	13.66	-42.64	-41.12
36	SBI Magnum Index Fund - Growth	17-Jan-02	Nifty 50	13.66	-70.62	-69.81
37	Tata Index Fund - Nifty Plan - Option A	25-Feb-03	Nifty 50	13.44	-58.07	-56.86
38	Tata Index Fund - Sensex Plan - Option A	25-Feb-03	Sensex	13.21	-69.22	-68.72
39	Taurus Nifty Index Fund - Dividend	22-Jun-10	Nifty 50	14.00	--	--
40	Taurus Nifty Index Fund - Growth	22-Jun-10	Nifty 50	13.98	--	--
41	UTI Master Index Fund - Dividend	1-Jun-98	Nifty 50	13.53	-75.71	-75.21
42	UTI Master Index Fund - Growth	1-Jun-98	Sensex	13.53	-75.71	-75.21
43	UTI Nifty Fund - Dividend	14-Feb-00	Nifty 50	13.57	-21.28	-19.18
44	UTI Nifty Fund - Growth	14-Feb-00	Nifty 50	13.58	-59.91	-58.83

Source: NSE and ICRA

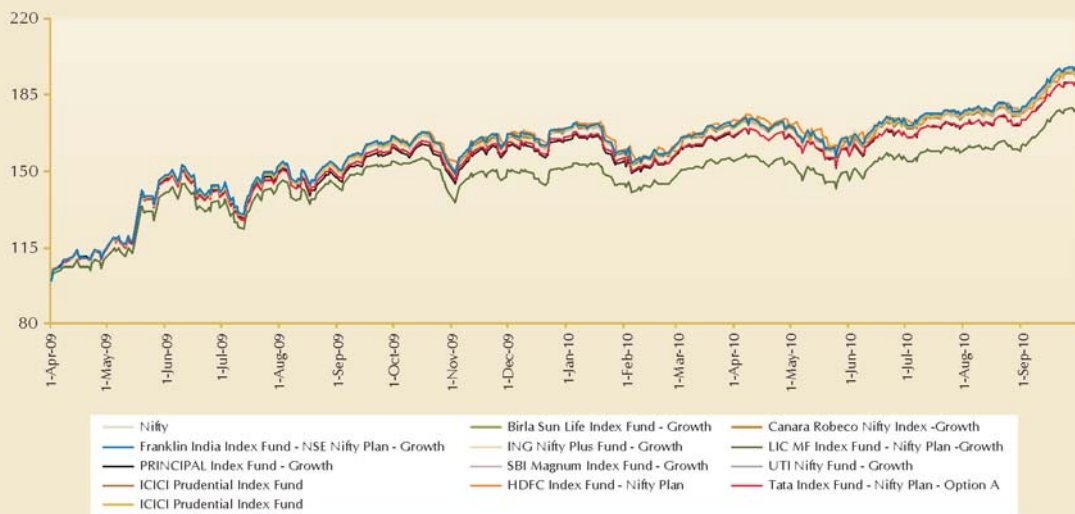
Note: Returns are calculated as at end of September 2010

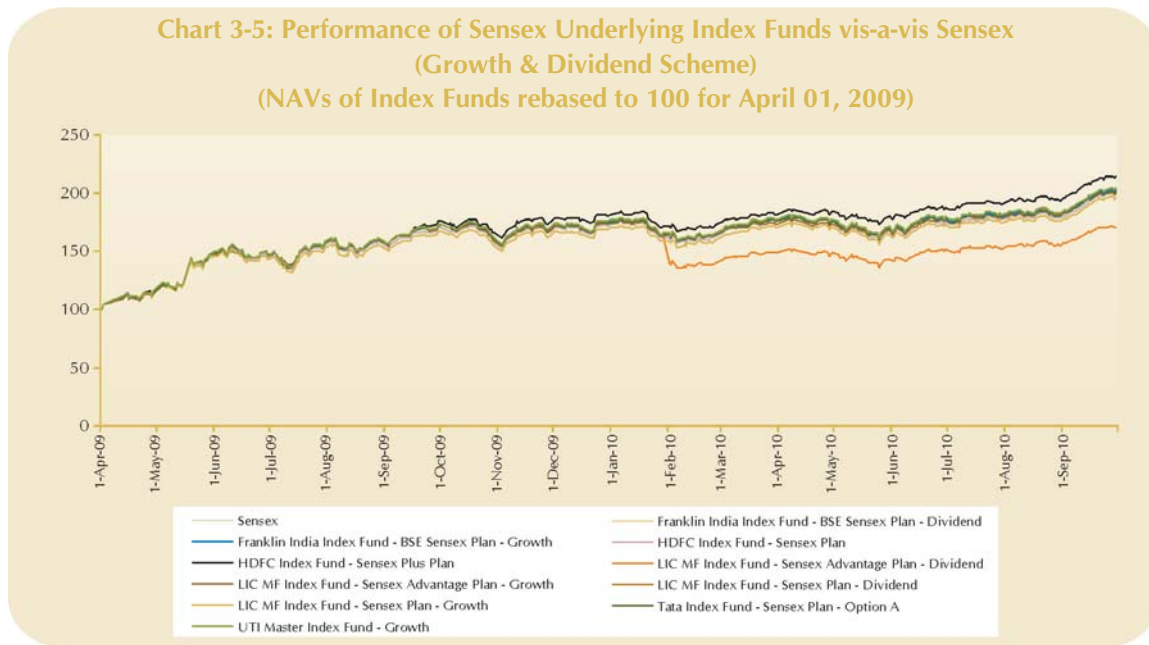


Chart 3-4A: Comparison of different Index Funds vis-a-vis Nifty (Dividend scheme)
 (NAVs of Index Funds rebased to 100 for April 01, 2009)



Chart 3-4B: Comparison of different Index Funds vis-a-vis Nifty (Growth Schemes)
 (NAV of Index Funds rebased to 100 for April 01, 2009)





Exchange Traded Funds

As of September 2010, there were 25 exchange traded funds in India (listed at NSE and BSE), out of which there were 15 index based ETFs and 10 Gold based ETFs. The performance of these ETFs (in terms of returns – 3 months, 6 months and 12 months) along with their details such as their date of launch and their underlying index is depicted in table 3-8.

Table 3-8: Performance of Exchange Traded Funds

ETFs	Type of ETF	Launched by	Listed at	Launch Date	3 month	6 month	12 month
Index Based ETF							
1 Bank BeES	Index Based-CNX Bank	Benchmark Mutual Fund	NSE	27-May-04	30.49	31.69	41.14
2 Hang Seng BeES		Benchmark Mutual Fund	NSE	18-Mar-10	8.12	7.27	-
3 ICICI SENSEX Prudential Exchange Traded Fund	Index Based-Sensex	ICICI	BSE	13-Jan-03	13.49	14.79	17.83
4 Junior BeES	Index Based-CNX Nifty Junior	Benchmark Mutual Fund	NSE	21-Feb-03	11.64	17.30	34.37
5 Kotak Nifty ETF					13.76	15.71	-
6 Kotak PSU Bank ETF	Index Based-CNX PSU Bank	Kotak	NSE	16-Nov-07	35.02	48.32	53.21
7 Kotak Sensex ETF	Index Based-Sensex	Kotak	BSE	16-Jun-08	13.59	15.26	18.08
8 Liquid BeES	Money Market ETF	Benchmark Mutual Fund	NSE	27-May-04	0	0	0
9 MOST Shares M50					-	-	-
10 Nifty BeES	Index Based-Nifty 50	Benchmark Mutual Fund	NSE	28-Dec-01	13.69	15.65	19.41
11 PSU Bank BeES	Index Based-CNX PSU Bank	Benchmark Mutual Fund	NSE	1-Nov-07	34.95	48.17	50.04
12 Quantum Index Fund - Growth	Index Based-Nifty 50	Quantum	NSE	18-Jul-08	13.57	15.47	18.89
13 Reliance Banking ETF	Index Based-CNX Bank	Reliance	NSE	27-Jun-08	30.27	31.47	40.84

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	ETFs	Type of ETF	Launched by	Listed at	Launch Date	3 month	6 month	12 month
14	S&P CNX NIFTY UTI National Depository Receipts Scheme	Index Based-Nifty 50	UTI	NSE	7-Jul-03	13.53	15.69	19.65
15	Shariah BeES	Index Based-Nifty 50	Benchmark Mutual Fund	NSE	18-Mar-09	6.59	8.07	9.88
	GOLD ETFs							
16	Gold BeES	Based on Gold	Benchmark Mutual Fund	NSE	19-Mar-07	1.57	16.62	21.49
17	HDFC Gold ETF	Based on Gold	HDFC MF	NSE	25-Jun-10	-	-	-
18	ICICI Prudential Gold ETF	Based on Gold	ICICI Prudential AMC	NSE	16-Jul-10	-	-	-
19	Kotak Gold ETF	Based on Gold	Kotak	NSE	8-Aug-07	-	-	-
20	Quantum Gold Fund - Growth	Based on Gold	Quantum	NSE	28-Feb-08	1.57	16.60	21.47
21	Reliance Gold ETF - Dividend	Based on Gold	Reliance	NSE	27-Jun-08	1.58	16.62	21.49
22	Religare Gold ETF	Based on Gold	Religare MF	NSE	28-Jan-10	1.57	16.62	-
23	SBI Gold ETS	Based on Gold	SBI	NSE	28-May-09	1.83	16.75	21.19
24	UTI Gold ETF	Based on Gold	UTI	NSE	1-Mar-07	-	-	-

Source: NSE and ICRA

Table 3-9: Turnover of ETFs listed at NSE and BSE

Sr. No.	Name of ETF	2009-10			(April-September 2010)	
		ETF Symbol	Sum of Total Traded Value (₹ Mn)	Sum of Total Traded Value (US \$ Mn)	Sum of Total Traded Value (₹ Mn)	Sum of Total Traded Value (US \$ Mn)
1	Benchmark Asset Management Company Bank BeES	BANK BEES	1,375.94	30.48	284.49	6.33
2	Benchmark Mutual Fund - Hang Seng Benchmark Exchange Traded Scheme	HNGSNG BEES	71.01	1.57	584.21	13.01
3	Benchmark Mutual Fund-Nifty Junior Benchmark ETF	JUNIOR BEES	1,339.98	29.68	1,689.72	37.62
4	Kotak Mahindra Mutual Fund-Kotak Nifty ETF	KOTAK NIFTY	131.11	2.90	170.36	3.79
5	Kotak PSU Bank ETF	KOTAK PSU BK	145.22	3.22	643.33	14.32
6	Kotak Sensex	KOTAK SENSEX	341.58	7.57	161.14	3.59
7	Liquid Benchmark Exchange Traded Scheme	LIQUIDBEES	24,157.02	535.16	14,064.74	313.11
8	Motilal Oswal Mutual Fund - Motilal Oswal MOSt Shares M50 ETF	M50 ETF	-	-	1,497.67	33.34
9	Benchmark Mutual Fund-Nifty BeES	NIFTY BEES	16,084.82	356.33	5,654.07	125.87
10	Benchmark Mutual Fund - PSU Bank Benchmark Exchange Traded Scheme	PSUBNK BEES	218.40	4.84	150.80	3.36
11	Quantum Index Fund -Exchange Traded Fund	QUANTUM INDX	12.56	0.28	5.99	0.13
12	Reliance Mutual Fund -Banking Exchange Traded Fund	REL BANK ETF	78.11	1.73	41.67	0.93
13	Benchmark Mutual Fund - Shariah Benchmark Exchange Traded Scheme	SHARIA BEES	12.82	0.28	6.13	0.14
14	ICICI SENSEX Prudential Exchange Traded Fund (SPICE)-Listed at BSE	SPICE-ETF	4.71	0.10	1.42	0.03
15	S&P CNX NIFTY UTI Notional Depository Receipts Scheme (SUNDER)	UTISUNDERETF	14.20	0.31	20.06	0.45
	Total Turnover of Index Funds		43,987.46	974.47	24,975.80	556.01

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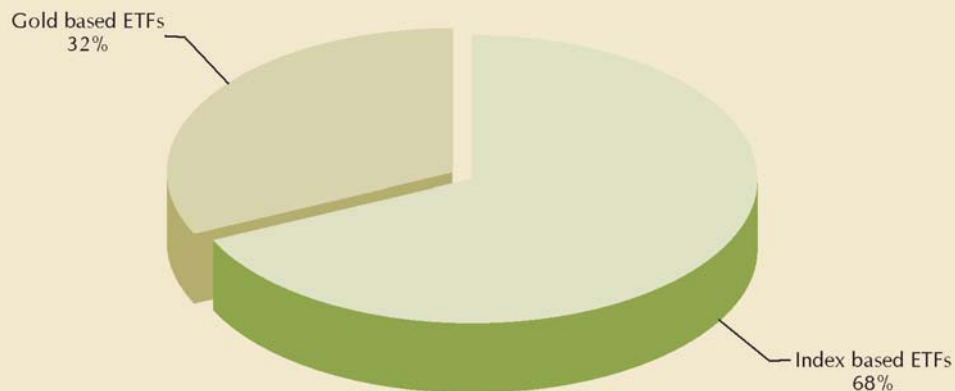
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Sr. No.	Name of ETF	2009-10		(April-September 2010)		
		ETF Symbol	Sum of Total Traded Value (₹ Mn)	Sum of Total Traded Value (US \$ Mn)	Sum of Total Traded Value (₹ Mn)	Sum of Total Traded Value (US \$ Mn)
16	Benchmark Mutual Fund - Gold Benchmark Exchange Traded Scheme	GOLDBEES	12,132.50	268.77	14,159.01	315.20
17	HDFC Mutual Fund-HDFC Gold Exchange Traded Fund	HDFCFMGETF	-	-	310.15	6.90
18	ICICI Prudential Mutual Fund - ICICI Prudential Gold ETF	ICICIPRUGETF	-	-	66.07	1.47
19	Kotak Mutual Fund - Gold Exchange Traded Fund	KOTAKGOLDETF	1,380.26	30.58	1,713.08	38.14
20	Quantum Gold Fund -Exchange Traded Fund	QUANTUM GOLD	172.71	3.83	364.29	8.11
21	Reliance Mutual Fund - Gold Exchange Traded Fund	RELIANCEGOLD	3,632.53	80.47	3,941.67	87.75
22	Religare Mutual Fund - Religare Gold Exchange Traded Fund	RELIGAREGOLD	0.83	0.02	167.33	3.73
23	SBI Mutual Fund - SBI Gold Exchange Traded Scheme - Growth Option	SBI GOLD ETS	955.61	21.17	864.10	19.24
24	UTI Mutual Fund-UTI Gold Exchange Traded Fund	UTI GOLD ETF	2,452.82	54.34	1,801.81	40.11
	Total Turnover of Gold Based ETFs		20,727.25	459.18	23,387.50	520.65
	Total Turnover of all ETFs		64,714.70	1,433.64	48,363.30	1,076.65
	Percentage of Index Funds Turnover to total ETF Turnover		67.97		51.64	
	Percentage of Gold based ETF Turnover to total ETF turnover		32.03		48.36	

Source: NSE and BSE

The total traded value of the 25 ETFs listed on NSE and BSE during the fiscal 2009-10 was ₹ 64,714.70 million (US \$ 1,433.64 million). The details of ETF turnover at NSE & BSE is given in table 3-9. As per Chart 3-6, Index based ETFs constituted 68% of the total exchange traded funds.

Chart 3-6: Percentage share of turnover of Index based ETFs vis-à-vis Gold based ETFs



Venture Capital Funds

At end September 2010, total investment by VCFs stood at ₹ 229,770 million. This information has been compiled on the basis of quarterly information submitted to SEBI by registered VCFs. Details of the industry-wise cumulative investment details of SEBI registered venture capital funds is given in table 3-10.

Table 3-10: Industry wise Cumulative Investment details of SEBI Registered Venture Capital Funds (VCF)

(₹ mn)		
Sectors of Economy	31-Mar-10	30-Sep-10
Information technology	5630	5,285
Telecommunications	7770	8,563
Pharmaceuticals	5680	5,380
Biotechnology	2280	2,118
Media/ Entertainment	5840	8,472
Services Sector	9020	12,221
Industrial Products	8750	11,547
Real Estate	55840	81,800
Others	81920	94,385
Total	182,730	229,770

Source : SEBI

Capital Market

A. Introduction

Secondary Market refers to a market where securities are traded after being initially offered to the public in the primary market and/or listed on the Stock Exchange. The stock exchanges along with a host of other intermediaries provide the necessary platform for trading in secondary market and also for clearing and settlement. The securities are traded, cleared and settled within the regulatory framework prescribed by the Exchanges and the SEBI. The Exchange has laid down rules and guidelines for various intermediaries with regards to the admission and Fee structure for Trading Members, listing criteria and listing fees for companies. With the increased application of information technology, the trading platforms of stock exchanges are accessible from anywhere in the country through their trading terminals. The trading platforms are also accessible through internet. In a geographically widespread country like India, this has significantly expanded the reach of the exchanges. Secondary market comprises of equity markets and the debt markets. This chapter focuses on equity markets, while debt markets are dealt with in chapter 5.

The transactions in secondary market pass through three distinct phases, viz., trading, clearing and settlement. While the stock exchanges provide the platform for trading, the clearing corporation determines the funds and securities obligations of the trading members and ensures that the trade is settled through exchange of obligations. The clearing banks and the depositories provide the necessary interface between the custodians/clearing members for settlement of funds and securities obligations of trading members.

Several entities, like the clearing corporation, clearing members, custodians, clearing banks, depositories are involved in the process of clearing. The role of each of these entities is explained below:

- 1) **Clearing Corporation:** The clearing corporation is responsible for post-trade activities such as risk management and clearing and settlement of trades executed on a stock exchange.

The National Securities Clearing Corporation Ltd. (NSCCL), a wholly owned subsidiary of NSE, was the first clearing corporation to be established in the country and also the first clearing corporation in the country to introduce settlement guarantee. The NSCCL was incorporated in August 1995. It was set up with the objective of bringing and sustaining confidence in clearing and settlement of securities; promoting and maintaining short and consistent settlement cycles; providing counter-party risk guarantee and operating a tight risk containment system.

- 2) **Clearing Members:** Clearing Members are responsible for settling their obligations as determined by the clearing corporation. They do so by making available funds and/or securities in the designated accounts with clearing bank/depositories on the date of settlement.
- 3) **Custodians:** Custodians are clearing members but not trading members. They settle trades on behalf of trading members, when a particular trade is assigned to them for settlement. The custodian is required to confirm whether he is going to settle that trade or not. If he confirms to settle that trade, then clearing corporation assigns that particular obligation to him. As on September 30, 2010, there are 15 custodians empanelled with NSCCL. They are Axis Bank Ltd., BNP Paribas, Citibank N.A., DBS bank Ltd., Deutsche Bank A.G., HDFC Bank Ltd.,



Hongkong & Shanghai Banking Corporation Ltd., ICICI Bank Ltd., Infrastructure leasing and Financial Services Ltd., JP Morgan Chase Bank N.A., Kotak Mahindra Bank Ltd., Orbis Financial Corporation Ltd., SBI - SG Global Securities Services, Standard Chartered Bank Ltd., and Stock Holding Corporation of India Ltd.

- 4) **Clearing Banks:** Clearing banks are a key link between the clearing members and Clearing Corporation to effect settlement of funds. Every clearing member is required to open a dedicated clearing account with one of the designated clearing banks. Based on the clearing member's obligation as determined through clearing, the clearing member makes funds available in the clearing account for the pay-in and receives funds in case of a pay-out. There are 13 clearing banks of NSE, such as Axis Bank Ltd., Bank of India Ltd., Canara Bank Ltd., Citibank N.A., HDFC Bank Ltd., HSBC Ltd., ICICI Bank Ltd., IDBI Bank Ltd., IndusInd Bank Ltd., Kotak Mahindra Bank, Standard Chartered Bank, State Bank of India and Union Bank of India.
- 5) **Depositories:** Depository holds securities in dematerialized form for the investors in their beneficiary accounts. Each clearing member is required to maintain a clearing pool account with the depositories. He is required to make available the required securities in the designated account on settlement day. The depository runs an electronic file to transfer the securities from accounts of the custodians/clearing member to that of NSCCL and visa-versa as per the schedule of allocation of securities. The two depositories in India are the National Securities Depository Ltd. (NSDL) and Central Depository Services (India) Ltd. (CDSL).
- 6) **Professional Clearing Member:** NSCCL admits special category of members known as professional clearing members (PCMs). PCMs may clear and settle trades executed for their clients (individuals, institutions etc.). In such cases, the functions and responsibilities of the PCM are similar to that of the custodians. PCMs also undertake clearing and settlement responsibilities of the trading members. The PCM in this case has no trading rights, but has clearing rights i.e. he clears the trades of his associate trading members and institutional clients.

B. Trading Mechanism

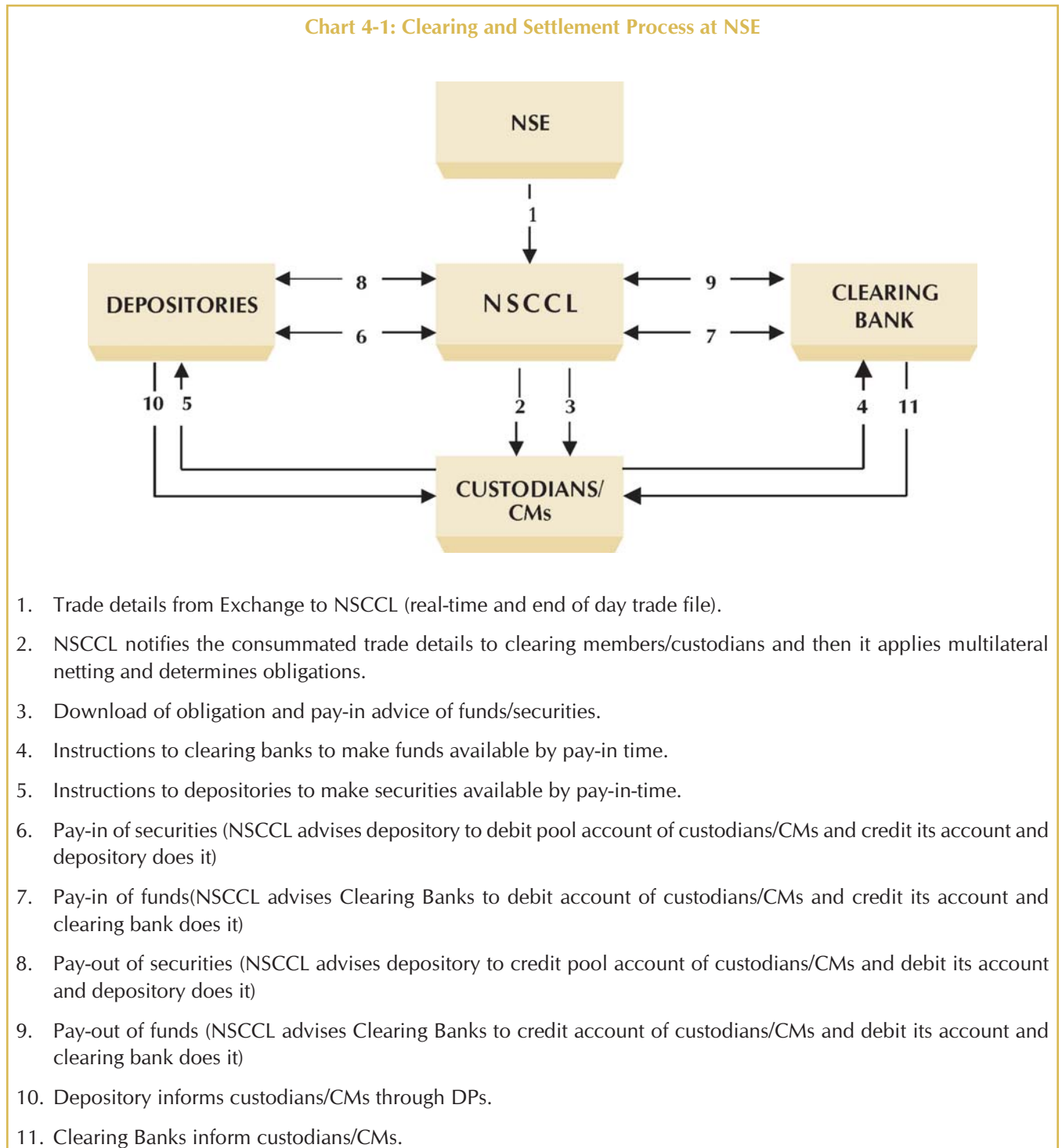
NSE was the first stock exchange in the country set up as a national exchange having nation-wide access with fully automated screen based trading system. National Exchange for Automated Trading (NEAT) is the trading system of NSE. NEAT facilitates a system on-line, fully automated, nationwide, anonymous, order driven, screen-based trading. In this system a member can punch into the compute quantities of securities and the prices at which he likes to transact and the transaction is executed as soon as it finds a matching sale for buy order for a counter party. The numerous advantages of the NEAT system are detailed out below :

- It electronically matches orders on a price/time priority and hence cuts down on time, cost and risk of error, as well as on fraud resulting in improved operational efficiency.
- It allows faster incorporation of price sensitive information into prevailing prices, thus increasing the informational efficiency of markets.
- It enables market participants to see the full market on real-time, making the market transparent. It allows a large number of participants, irrespective of their geographical locations, to trade with one another simultaneously, improving the depth and liquidity of the market.
- It provides tremendous flexibility to the users in terms of kinds of orders that can be placed on the system. It ensures full anonymity by accepting orders, big or small, from members without revealing their identity, thus providing equal access to everybody.
- It provides a perfect audit trail which helps to resolve disputes by logging in the trade execution process in entirety.

C. Clearing & Settlement Process

The clearing process involves determination of what counter-parties owe, and which counter-parties are due to receive on the settlement date, thereafter the obligations are discharged by settlement. The clearing and settlement process comprises of three main activities- clearing, settlement and risk management.

The clearing and settlement process for transaction in securities on NSE is presented in (Chart 4-1).



The core processes involved in clearing and settlement include:

- a) **Trade Recording:** The key details about the trades are recorded to provide basis for settlement. These details are automatically recorded in the electronic trading system of the exchanges.



- b) **Trade Confirmation:** Trades which are for settlement by custodians are indicated with a custodian participant code and the same is subject to confirmation by the respective custodian. The custodian is required to confirm settlement of these trades on T+1 day by the cut-off time of 1.00 pm.
- c) **Determination of Obligation:** The next step is determination of what counter-parties owe, and what counter-parties are due to receive on the settlement date. The NSCCL interposes itself as a central counterparty between counterparties to trades and nets the positions so that a member has security-wise net obligation to receive or deliver a security and has to either pay or receive funds.

The settlement process begins as soon as members' obligations are determined through the clearing process. The settlement process is carried out by the Clearing Corporation with the help of clearing banks and depositories. The Clearing Corporation provides a major link between the clearing banks and the depositories. This link ensures actual movement of funds as well as securities on the prescribed pay-in and pay-out day.

- d) **Pay-in of Funds and Securities:** This requires members to bring in their funds/securities to the clearing corporation. The CMs make the securities available in designated accounts with the two depositories (CM pool account in the case of NSDL and designated settlement accounts in the case of CDSL). The depositories move the securities available in the pool accounts to the pool account of the clearing corporation. Likewise CMs with funds obligations make funds available in the designated accounts with clearing banks. The clearing corporation sends electronic instructions to the clearing banks to debit designated CMs' accounts to the extent of payment obligations. The banks process these instructions, debit accounts of CMs and credit accounts of the clearing corporation. This constitutes pay-in of funds and of securities.
- e) **Pay-out of Funds and Securities:** After processing for shortages of funds/securities and arranging for movement of funds from surplus banks to deficit banks through RBI clearing, the clearing corporation sends electronic instructions to the depositories/clearing banks to release pay-out of securities/funds. The depositories and clearing banks debit accounts of the Clearing Corporation and credit accounts of CMs. This constitutes pay-out of funds and securities.

Settlement Cycle

NSCCL clears and settles trades as per the well-defined settlement cycles (Table 4-1). All the securities are being traded and settled under T+2 rolling settlement. The NSCCL notifies the relevant trade details to clearing members/custodians on the trade day (T), which are affirmed on T+1 to NSCCL. Based on it, NSCCL nets the positions of counterparties to determine their obligations. A clearing member has to pay-in/pay-out funds and/or securities. The obligations are netted for a member across all securities to determine his fund obligations and he has to either pay or receive funds. Members' pay-in/pay-out obligations are determined latest by T+1 and are forwarded to them on the same day, so that they can settle their obligations on T+2. The securities/funds are paid-in/paid-out on T+2 day to the members' clients and the settlement is completed in 2 days from the end of the trading day.

The important settlement types are: Normal segment (N), Trade for trade Surveillance (W), Retail Debt Market (D), Limited Physical market (O), Non cleared TT deals (Z), Auction normal (A). Trades in the settlement type N, W, D and A are settled in dematerialized mode. Trades under settlement type O are settled in physical form. Trades under settlement type Z are settled directly between the members and may be settled either in physical or dematerialized mode.

Table 4-1: Settlement Cycle in CM Segment

Activity		T + 2 Rolling Settlement
Trading	Rolling Settlement Trading	T
Clearing	Custodial Confirmation	T + 1
	Delivery Generation	T + 1
Settlement	Securities and Funds Pay-in	T + 2
	Securities and Funds Pay-out	T + 2
	Valuation Debit	T + 2.
Post Settlement	Auction	T + 2
	Auction Settlement	T + 3
	Bad Delivery Reporting	T + 4
	Rectified Bad Delivery Pay-in/Pay-out	T + 6
	Re-bad Delivery Reporting and pickup	T + 8
	Close Out of Re-bad Delivery and funds pay-in & pay-out	T + 9

Source: NSE

Note : T + 1 means one working day after the trade day. Other T + terms have similar meanings.

Dematerialised Settlement

For all trades executed on the T day, NSCCL determines the cumulative obligations of each member on the T + 1 day and electronically transfers the data to Clearing Members (CMs). All trades concluded during a particular trading date are settled on a designated settlement day i.e. T + 2 day. In case of short deliveries on the T + 2 day in the normal segment, NSCCL conducts a buy-in auction on the T + 2 day and the settlement for the same is completed on the T + 3 day, whereas in case of W segment there is a direct close out. For arriving at the settlement day all intervening holidays, which include bank holidays, NSE holidays, Saturdays and Sundays are excluded. The settlement schedule for all the settlement types in the manner explained above is communicated to the market participants vide circular issued during the previous month.

D. Policy Developments

Over the past years the Government and the market regulators have taken several policy measures to improve the operations of the stock exchanges and market intermediaries. The measures are aimed at improving the market infrastructure and upgradation of risk containment, so as to protect the interest of the investors. The recent policy developments (April 2009 to December 2010) pertaining to secondary markets segment are enumerated below.

I. Comprehensive Risk Management Framework for the cash market

As per the recommendations of the Secondary Market Advisory Committee of SEBI, few changes regarding the Comprehensive Risk Management Framework for the cash market have been made on July 27, 2009. The SEBI circular provides that in case of a buy transaction in cash market, VaR margins, Extreme loss margins and mark to market losses together should not exceed the purchase value of the transaction. Further, in case of a sale transaction in cash market, the existing practice should continue viz., VaR margins and Extreme loss margins together should not exceed the sale value of the transaction and mark to market losses should also be levied.



II. Amendment to SEBI (DIP) Guidelines, 2000 – Applications Supported by Blocked Amount (ASBA) facility in public issues and rights issues.

In its continuing endeavour to make the existing public issue facility more efficient, SEBI had introduced ASBA (ASBA Phase I) as a supplementary facility of applying in public issues, vide its circular dated July 30, 2008 which was available to retail individual investors in public issues only. In order to simplify the rights issue process as well as to make it more efficient and effective, SEBI has amended the SEBI (DIP) Guidelines 2000. ASBA Phase I was subsequently extended to rights issues vide circulars dated September 25, 2008 and August 20, 2009.

Rights issues are further issuances of capital made by listed entities to existing shareholders. These shareholders are generally in possession of basic information about the issuer company and are generally updated on major developments in the company on a continuous basis. SEBI, vide circular dated September 25, 2008, had enabled the facility of applying in rights issue through ASBA on a pilot basis. It has now been decided to make ASBA applicable to all rights issues. ASBA will co-exist with the current process, wherein cheque/demand draft is used as a mode of payment. Since the web enabled interface of stock exchanges is now operational for the purpose of acceptance of the rights issue applications, self certified syndicate banks shall upload the application data in to the aforesaid interface of stock exchanges. All applicants who desire to apply through ASBA should hold shares of the issuer company in a depository account.

III. Prior approval for re-commencing trading on the Stock Exchange.

A stock exchange in India is recognized by the Central Government / SEBI under section 4 of Securities Contracts (Regulation) Act, 1956 for the purpose of assisting, regulating or controlling the business of buying, selling or dealing in securities. Among the existing recognized stock exchanges in India it has been observed that some of the stock exchanges have no trading over the past several years. With the completion of corporatisation and demutualisation of stock exchanges, some of the stock exchanges have generated renewed trading interest and are in the process of resuming trading for reviving the stock exchange. While these stock exchanges have no trading activity for quite some time, the regulatory changes introduced by SEBI in the interim may not have been complied with. Considering that a stock exchange is required to have adequate and effective trading systems, clearing and settlement system, monitoring and surveillance mechanisms, risk management systems etc, the resumption of trading activity without basic infrastructure may not be in the interest of investors / trade. In light of the above, the stock exchanges that have no trading for a period of six months or more shall resume trading only after ensuring that adequate and effective trading systems, clearing and settlement systems, monitoring and surveillance mechanisms, risk management systems are in place and have also complied with all other regulatory requirements stipulated by SEBI from time to time. Further, the stock exchanges shall resume trading only after obtaining prior approval from SEBI. In case the stock exchanges have no trading for a period of less than six months, the stock exchange shall ensure that necessary regulatory requirements have been complied with before resuming trading and the matter may be placed before its Board with reasons, if any.

IV. Facilitating transactions in Mutual Fund schemes through the Stock Exchange infrastructure

SEBI vide circular SEBI /IMD / CIR No.11/183204/ 2009 dated November 13, 2009 has permitted units of mutual fund schemes to be transacted through registered stock brokers of recognized stock exchanges. In order to provide more avenues for purchasing and redeeming Mutual Fund units, in addition to the existing facilities of purchasing and redeeming directly with the Mutual Funds and Stock Brokers, units of mutual funds schemes are allowed to be transacted through clearing members of the registered Stock Exchanges.

Investors shall receive redemption amount (if units are redeemed) and units (if units are purchased) through broker/clearing member's pool account. Mutual Funds(MF)/ Asset management Companies(AMC) would pay proceeds to the broker/clearing member (in case of redemption) and broker/clearing member in turn to the respective investor and similarly units shall be credited by MF/AMC into broker/clearing member's pool account (in case of purchase) and broker/clearing member in turn to the respective investor.

V. Reporting of Lending of securities bought in the Indian Market.

FII's have been submitting daily reports of information pertaining to securities lent by the FII's to entities abroad, based on which disclosures have been made available for public dissemination twice in a week, one on Tuesday and another

on Friday. On a review it has been decided to modify the periodicity of these reports from daily submissions to weekly submissions. In accordance with this change in periodicity of reports, the FIIs shall now be required to submit the reports every Friday.

VI. Review of Securities Lending and Borrowing (SLB) Framework

Pursuant to feedback received from market participants and proposals for revision of SLB received from NSE and BSE, the SLB framework was revised vide circular no. MRD/DoP/SE/ Cir-31/2008 dated October 31, 2008. The tenure of contracts in SLB has been revised upto a maximum period of 12 months. The Approved Intermediary (Clearing corporation/ Clearing House) shall have the flexibility to decide the tenure (maximum period of 12 months). The lender / borrower have the facility of early recall / repayment of shares.

In case the borrower fails to meet the margin obligations, the Approved Intermediary (AI) shall obtain securities and square off the position of such defaulting borrower, failing which there shall be a financial close-out. In case lender recalls the securities anytime before completion of the contract, the AI on a best effort basis shall try to borrow the security for the balance period and pass it onward to the lender. The AI will collect the lending fee from the lender who has sought early recall. In case of early repayment of securities by the borrower, the margins shall be released immediately on the securities being returned by the borrower to the AI. The AI shall on a best effort basis, try to onward lend the securities and the income arising out of the same shall be passed on to the borrower making the early repayment of securities. In case AI is unable to find a new borrower for the balance period, the original borrower will have to forego lending fee for the balance period.

VII. Companies are required to have at least 50% of the non-promoter holdings in dematerialized form

In order to moderate a sharp and volatile price movements in shares of companies, to encourage better price discovery and to increase transparency in securities market, SEBI in consultation with Stock Exchanges has decided to adopt the following measures:-

- a. The securities of all companies shall be traded in the normal segment of the exchange if and only if, the company has achieved at least 50% of non-promoters holding in dematerialized form by October 31st 2010
- b. In all cases, wherein based on the latest available quarterly shareholding pattern, the companies do not satisfy above criteria, the trading in such scrips shall take place in Trade for Trade segment (TFT segment) with effect from the time schedule specified above.
- c. In addition to above measures, in the following cases the trading shall take place in TFT segment for first 10 trading days with applicable price band while keeping the price band open on the first day of trading (except for the original scrip, on which derivatives products are available or included in indices on which derivatives products are available).
 - Merger, demerger, amalgamation, capital reduction/consolidation, scheme of arrangement, in terms of the Companies Act and/or as sanctioned by the Courts, in cases of rehabilitation packages approved by the Board of Industrial and Financial Reconstruction under Sick Industrial Companies Act and in cases of Corporate Debt Restructuring (CDR) packages by the CDR Cell of the RBI.
 - Securities that are being admitted to trading from another exchange by way of direct listing/MOU/securities admitted for trading under permitted category.
 - Where suspension of trading is being revoked after more than one year.

VIII. Introduction of call auction in Pre-open session with effect from October 18, 2010.

In a bid to reduce volatility in the opening prices and introduce international standards, NSE introduced call auction mechanism - an alternative price discovery mechanism to be conducted in the pre-open session. The call auction is expected to make improvements in the Indian securities market by:

- Giving investors a choice of achieving a zero impact cost trade



- Reducing transaction costs and execution risk
- Reducing bid-offer spreads in the continuous market when any news breaks out in between close of the market on previous day and the next day's open price.

The pre-open session shall be duration of 15 minutes i.e. from 9:00 am to 9:15 am. The call auction in pre-open session will be introduced initially for securities forming part of indices CNX Nifty and SENSEX. The pre-open session is comprised of Order collection period and order matching period. The order collection period of 8* minutes shall be provided for order entry, modification and cancellation. (* - System driven random closure between 7th and 8th minute) During this period orders can be entered, modified and cancelled. The information like Indicative equilibrium / opening price of scrip, total buy and sell quantity of the scrip, indicative NIFTY Index value and percentage change of indicative equilibrium price to previous close price shall be computed based on the orders in order book and shall be disseminated during pre-open session.

Order matching period will start immediately after completion of order collection period. Order will be matched at a single (equilibrium) price which will be open price. The order matching will happen in a following sequence:

- Eligible limit orders will be matched with eligible limit orders
- Residual eligible limit orders will be matched with market orders
- Market orders will be matched with market orders

During order matching period order modification, order cancellation, trade modification and trade cancellation will not be allowed. The trade details will be disseminated to respective members before the start of normal market.

Equilibrium price determination:

In a call auction price mechanism, equilibrium price is determined as shown below. Assume that NSE received bids for particular stock xyz at different prices in between 9:00 am and 9:15 am. Based on the principle of demand supply mechanism, exchange will arrive at the equilibrium price – the price at which the maximum number of shares can be bought / sold. In below example, the opening price will be ₹ 105 where maximum 27,500 shares can be traded.

Share price (₹)	Order Book		Demand / Supply Schedule		Maximum tradable quantity
	Buy	Sell	Demand	Supply	
103	13500	11500	50500	11500	11500
104	9500	9800	37000	21300	21300
105	12000	15000	27500	36300	27500
106	6500	12000	15500	48300	15500
107	5000	12500	9000	60800	9000
108	4000	8500	4000	69300	4000

After completion of order matching there shall be a silent period to facilitate the transition from pre-open session to the normal market. All outstanding orders will be moved to the normal market retaining the original time stamp. Limit orders will be at limit price and market orders will be at the discovered equilibrium price. In a situation where no equilibrium price is discovered in the pre-open session, all market orders shall be moved to normal market at previous day's close price or adjusted close price / base price following price time priority. Accordingly, Normal Market / Odd lot Market and Retail Debt Market will open for trading after closure of pre-open session i.e. 9:15 am. Block Trading session will be available for the next 35 minutes from the open of Normal Market.

The opening price shall be determined based on the principle of demand supply mechanism. The equilibrium price will be the price at which the maximum volume is executable. In case more than one price meets the said criteria, the equilibrium price will be the price at which there is minimum unmatched order quantity. In case more than one price has same minimum order unmatched quantity, the equilibrium price will be the price closest to the previous day's closing price. In case the previous day's closing price is the mid-value of pair of prices which are closest to it,

then the previous day's closing price itself will be taken as the equilibrium price. In case of corporate action, previous day's closing price will be the adjustable closing price or the base price. Both limit and market orders shall reckon for computation of equilibrium price. The equilibrium price determined in pre-open session is considered as open price for the day.

In case of only market orders exists both in the buy and sell side, the market orders shall be matched at last traded price and all unmatched orders shall be shifted to the order book of the normal market at last traded price following time priority. Last traded price shall be the opening price.

In case the equilibrium price is not discovered in the pre-open session and there are no market orders to be matched at last traded price, all unmatched orders shall be shifted to the order book of the normal market following price time priority. The price of the first trade in the normal market shall be the opening price.

IX. Introduction of Smart Order Routing

SEBI has allowed Smart Order Routing which allows the brokers' trading engines to systematically choose the execution destination based on factors such as price, costs, speed, likelihood of execution and settlement, size, nature or any other consideration relevant to the execution of the order. SEBI has asked stock exchanges to ensure that brokers adhere to the best execution policy while using Smart Order Routing.

Smart Order Routing facility shall be provided to all class of investors. Stock broker shall enter into a specific agreement with the client to provide Smart Order Routing facility. Broker-client agreement shall clearly describe the features of the Smart Order Routing facility and the obligations and rights associated with Smart Order Routing facility. Stock exchange shall ensure that Smart Order Routing is not used to place orders at venues other than the recognised stock exchanges. The broker server routing orders placed through Smart Order Routing system to the exchange trading system shall be located in India. In addition to that stock broker shall ensure that alternative mode of trading system is available in case of failure of Smart Order Routing facility.

X. SEBI issued Guidelines for market makers on Small and Medium Enterprise (SME) exchange

SEBI has put in a framework for setting up of new exchange or separate platform of existing stock exchange having nationwide terminals for SME. As per the framework, market making has been made mandatory in respect of all scrips listed and traded on SME exchange. The Market Maker shall fulfil the following conditions to provide depth and continuity on this exchange:

- The Market Maker shall be required to provide a 2-way quote for 75% of the time in a day. The same shall be monitored by the stock exchange. Further, the Market Maker shall inform the exchange in advance for each and every black out period when the quotes are not being offered by the Market Maker.
- The minimum depth of the quote shall be ₹1,00,000/- . However, the investors with holdings of value less than ₹ 1,00,000 shall be allowed to offer their holding to the Market Maker in that scrip provided that he sells his entire holding in that scrip in one lot along with a declaration to the effect to the selling broker.
- Execution of the order at the quoted price and quantity must be guaranteed by the Market Maker, for the quotes given by him.
- There would not be more than five Market Makers for scrip. These would be selected on the basis of objective criteria to be evolved by the Exchange which would include capital adequacy, networth, infrastructure, minimum volume of business etc.

XI. Auction Session shall be conducted on T + 2 day

As per extant practice, in case of default by the selling broker in a settlement, the security delivered short is bought in the auction session and is delivered to the buying broker on T + 4 day. In order to reduce the time involved in delivering the shares to the buying broker, in case of default, it has been decided to conduct the auction on the same day of the settlement, after the pay-in is completed. i.e. the auction for trades done on T day shall be conducted on T + 2 day after pay-in is completed and shortfall is crystallized at 2:00 pm.



However, as the bank and stock exchange holidays are not common there are days when multiple settlements are conducted on the working day immediately following the day(s) of the closure. On such days when multiple settlements are conducted on the same day, the auction session of first settlement shall be conducted on the same day and settled the next day. The auction for the second settlement (S2) shall be conducted on the next day along with the shortages/ auction of that day. The settlement of the same shall happen on the subsequent day.

Market Design¹

Stock Exchanges

At the end of March 2010, there were 19 stock exchanges registered with SEBI having a total of 8804 registered brokers and 75378 registered sub-brokers trading on them (Annexure 4-1). The stock exchanges need to be recognized under the Securities Contracts (Regulation) Act, 1956. The SEBI has approved and notified the Corporatisation and Demutualisation Scheme of 19 Stock Exchanges. NSE since inception has adopted a demutualised structure and its model of demutualization compares well with the international models of demutualised stock exchanges as seen from. Some important features of the NSE structure are:

- It is a for-profit company, owned by Shareholders which are financial institutions which also have broking firms as subsidiaries;
- Ownership, trading rights and management are segregated;
- The Board of NSE comprises of representatives of shareholders, academics, chartered accountants, legal experts etc. Of these, 3 directors are nominated by SEBI and 3 directors are public representatives approved by SEBI.

Membership

The trading platform of a stock exchange is accessible only to trading members. They play a significant role in the secondary market by bringing together the buyers and the sellers. The brokers give buy/sell orders either on their own account or on behalf of clients. As these buy and sell order matches, the trades are executed. The exchange can admit a broker as its member only on the basis of the terms specified in the Securities Contracts (Regulation) Act, 1956, the SEBI Act 1992, the rules, circulars, notifications, guidelines, and the byelaws, rules and regulations of the concerned exchange. No stock broker or sub-broker is allowed to buy, sell or deal in securities, unless he or she holds a certificate of registration from the SEBI.

<i>Fees/Eligibility Criteria</i>	The stock exchanges however are free to stipulate stricter requirements than those stipulated by the SEBI. The minimum standards stipulated by NSE are in excess of those laid down by the SEBI. The admission of trading members is based on various criteria like capital adequacy, track record, education, and experience. The detailed eligibility criteria for trading membership in the CM, WDM, F&O and CD segment is presented in Table- 4-2. This reflects a conscious decision of NSE to ensure quality broking services.
<i>Corporatisation No of Brokers and Sub brokers</i>	The authorities have been encouraging corporatisation of the broking industry. As a result, a number of brokers-proprietor firms and partnership firms have converted themselves into corporates. As of end March 2010, 4,197 brokers, accounting for 47.67% of total brokers have become corporate entities. Amongst those registered with NSE around 89.69% of them were corporatised, followed by BSE with 82.35% corporate brokers. As at end-March 2010, there were 75,378 sub-brokers registered with SEBI, as compared with 62,471 sub-brokers as at end of previous year. NSE and BSE together constituted 98.58% of the total sub-brokers.

¹ While an attempt has been made to present market design for the entire Indian Securities Market, the trading mechanism and such other exchange-specific elements have been explained on the model adopted by NSE. The market developments have been explained, mostly for the two largest stock exchanges, viz NSE and BSE. Wherever data permits, an all-India picture has been presented.

Listing of Securities

Listing means formal admission of a security to the trading platform of a stock exchange. Listing of securities on the domestic stock exchanges is governed by the provisions in the

- Companies Act, 1956,
- Securities Contracts (Regulation) Act, 1956 (SC(R)A),
- Securities Contracts (Regulation) Rules (SC(R)R), 1957,
- Circulars/guidelines issued by Central Government and SEBI.
- Rules, bye-laws and regulations of the concerned stock exchange and by the listing agreement entered into by the issuer and the stock exchange.

A number of requirements, under the SC(R)R, the byelaws, the listing agreement have to be continuously complied with by the issuers to ensure continuous listing of its securities. The listing agreement also stipulates the disclosures that have to be made by the companies. In addition, the corporate governance practices enumerated in the agreement have to be followed. The Exchange is required to monitor the compliance with requirements. In case a company fails to comply with the requirements, then trading of its security would be suspended for a specified period, or withdrawal/delisting, in addition to penalty as prescribed in the SC(R)A.

Key provisions of Various Acts governing the listing of securities

- The Companies Act, 1956 requires a company intending to issue securities to the public to seek permission from one or more recognised stock exchanges for its listing. If the permission is not granted by all the stock exchanges before the expiry of 10 weeks from the closure of the issue, then the allotment of securities would be void. Also, a company may prefer to appeal against refusal of a stock exchange to list its securities to the Securities Appellate Tribunal (SAT). The prospectus should state the names of the stock exchanges, where the securities are proposed to be listed.
- The byelaws of the exchanges stipulates norms for the listing of securities. All listed companies are under obligation to comply with the conditions of listing agreement with the stock exchange where their securities are listed.
- According to the Securities Contract Regulation Act 1956, for any security to be listed on any recognized stock exchange, it has to fulfill the eligibility criteria and comply with the regulations made by SEBI.
- The Securities Contract (Regulation) Act, 1956 prescribe requirements with respect to the listing of securities on a recognised stock exchange and empowers SEBI to waive or relax the strict enforcement of any or all of requirements with respect to listing prescribed by these rules.
- The listing agreement states that the issuer should agree to adhere to the agreement of listing, except for a written permission from SEBI. As a precondition for the security to remain listed, an issuer should comply with the conditions as may be prescribed by the Exchange. Further, the securities are listed on the Exchange at its discretion, as the Exchange has the right to suspend or remove from the list the said securities at any time and for any reason, which it considers appropriate.

As per SEBI provision, the basic norms of listing on the stock exchanges should be uniform across the exchanges. However, the stock exchanges can prescribe additional norms over and above the minimum, which should be part of their byelaws. SEBI has been issuing guidelines/circulars prescribing certain norms to be included in the listing agreement and to be complied by the companies. The listing requirements for companies in the CM segment of NSE are presented in (Table 4-3).

Listing Fees in the CM Segment

The stock exchanges levy listing fees on the companies, whose securities are listed with them. The listing fee has two components-initial fee and annual fee. While, initial fee is a fixed amount, the annual fee varies depending upon the size of the company. as per the below table. For Companies who have a paid up share, bond and/ or debenture and/or debt capital, etc. of more than ₹500 crores



would have to pay minimum fees of ₹ 3,75,000 and an additional listing fees of ₹ 2,500 for every increase of ₹ 5 crores or part thereof in the paid up share, bond and/ or debenture and/or debt capital, etc. For Companies who have a paid up share, bond and/ or debenture and/or debt capital, etc. of more than ₹ 1,000 crores would have to pay minimum fees of ₹ 6,30,000 and an additional listing fees of ₹ 2,750 for every increase of ₹ 5 crores or part thereof in the paid up share, bond and/ or debenture and/or debt capital, etc. The detailed structure of listing fee is as below:

Sr. No.	Listing Fees	Amount
		(₹)
1	Initial Listing Fees	25,000
2	Annual Listing Fees (based on paid up share, bond and/ or debenture and/or debt capital, etc.)	
a	Upto ₹ 1 Crore	10,000
b	Above ₹ 1 Crore and upto ₹ 5 Crores	15,000
c	Above ₹ 5 Crore and upto ₹ 10 Crores	25,000
d	Above ₹ 10 Crore and upto ₹ 20 Crores	45,000
e	Above ₹ 20 Crore and upto ₹ 30 Crores	70,000
f	Above ₹ 30 Crore and upto ₹ 40 Crores	75,000
g	Above ₹ 40 Crore and upto ₹ 50 Crores	80,000
h	Above ₹ 50 Crores and upto ₹ 100 Crores	1,30,000
i	Above ₹ 100 Crore and upto ₹ 150 Crores	1,50,000
j	Above ₹ 150 Crore and upto ₹ 200 Crores	1,80,000
k	Above ₹ 200 Crore and upto ₹ 250 Crores	2,05,000
l	Above ₹ 250 Crore and upto ₹ 300 Crores	2,30,000
m	Above ₹ 300 Crore and upto ₹ 350 Crores	2,55,000
n	Above ₹ 350 Crore and upto ₹ 400 Crores	2,80,000
o	Above ₹ 400 Crore and upto ₹ 450 Crores	3,25,000
p	Above ₹ 450 Crore and upto ₹ 500 Crores	3,75,000

Internet trading

SEBI has allowed the use of internet as an order routing system for communicating investors' orders to the exchanges through the registered brokers. These brokers should obtain the permission from their respective stock exchanges. In February 2000, NSE became the first exchange in the country to provide web-based access to investors to trade directly on the Exchange followed by BSE in March 2001. The orders originating from the PCs of investors are routed through the internet to the trading terminals of the designated brokers with whom they have relations and further to the exchange. After these orders are matched, the transaction is executed and the investors get the confirmation directly on their PCs. At the end of March 2010, a total number of 363 members were permitted to allow investor's web based access to NSE's trading system. The members of the exchange in turn had registered 5,143,705 clients for web based access as on March 31, 2010. During the year 2009-10, 11.13% of the trading value in the Capital Market segment (₹ 921,380 - US \$ 204,116 million) was routed and executed through the internet.

Trading Regulations

Insider Trading

Insider Trading is considered as an offence and is hence prohibited as per the SEBI (Prohibition of Insider Trading) Regulations, 1992. The same was amended in the year 2003. The act prohibits an insider from dealing (on his behalf or on behalf of any other person) in securities of a company listed on any stock exchange, when in possession of any unpublished price sensitive information. Further, it has also prohibited any insider from communicating, counseling or procuring directly or indirectly any unpublished price sensitive information to any person who while in possession of such unpublished price sensitive information should not deal in securities. Price sensitive information means any information which is related directly or indirectly to a company and which if published is likely to



	<p>materially affect the price of securities of a company. It includes information like periodical financial results of the company, intended declaration of dividends (both interim and final), issue of securities or buy-back of securities, any major expansion plans or execution of new projects, amalgamation, merger or takeovers, disposal of the whole or substantial part of the undertaking and significant changes in policies, plans or operations of the company. SEBI is empowered to investigate on the basis of any complaint received from the investors, intermediaries or any other person on any matter having a bearing on the allegations of insider trading.</p>
Unfair Trade Practices	<p>The SEBI (Prohibition of Fraudulent and Unfair Trade Practices relating to the Securities Market) Regulations 2003 enable SEBI to investigate into cases of market manipulation and fraudulent and unfair trade practices. The regulations specifically prohibit fraudulent dealings, market manipulations, misleading statements to induce sale or purchase of securities, unfair trade practices relating to securities. When SEBI has reasonable ground to believe that the transaction in securities are being dealt with in a manner detrimental to the investor or the securities market in violation of these regulations and when any intermediary has violated the rules and regulations under the act, then it can order to investigate the affairs of such intermediary or persons associated with the securities market. Based on the report of the investigating officer, SEBI can initiate action for suspension or cancellation of registration of an intermediary.</p>
Takeovers	
<p>The restructuring of companies through takeover is governed by SEBI (Substantial Acquisition of shares and Takeover) Regulations, 1997. These regulations were formulated so that the process of acquisition and takeovers is carried out in a well-defined and orderly manner following the fairness and transparency.</p>	
<i>The SEBI (Substantial Acquisition of shares and Takeover) Regulations, 1997</i>	<p>In context of this regulation ‘acquirer’ is defined as a person who directly or indirectly acquires or agrees to acquire shares or voting rights in the target company or acquires or agrees to acquires ‘control’ over the target company, either by himself or with any person acting in concert with the acquirer. The term ‘control’ includes right to appoint majority of the directors or to control the management or policy decisions exercisable by any person or persons acting individually or in concert, directly or indirectly, including by virtue of their shareholding or management rights or shareholders agreements or voting agreements or in any other manner. This implies that where there are two or more persons in control over the target company, the cesser of any one of such persons from such control should not be deemed to be in control of management.</p>
<i>Chapter II ‘Disclosures of shareholding and control in a listed company’ of the SEBI (Substantial Acquisition of Shares and Takeovers) Regulations, 1997</i>	<p>Certain categories of persons are required to disclose their shareholding and/or control in a listed company to that company. Such companies, in turn, are required to disclose such details to the stock exchanges where shares of the company are listed. In case of acquisition of 5 percent and more share or voting rights of a company, an acquirer would have to disclose at every stage the aggregate of his shareholding or voting rights in that company to the company and to the stock exchange where shares of the target company are listed. No acquirer either by himself or through/with persons acting in concert with him should acquire, additional shares or voting rights unless such acquirer makes a public announcement to acquire shares in accordance with the regulations. As per the regulations, the mandatory public offer is triggered on:</p> <ul style="list-style-type: none"> Limit of 15 percent or more but less than 55 percent of the shares or voting rights in a company. Limit of 55 percent or more but less than 75 percent of the shares. In a case where the target company had obtained listing of its shares by making an offer of at least ten percent of issue size to the public in terms of the relevant clause mentioned in the Securities Contracts (Regulations) Rules 1957 or in terms of any relaxation granted from strict enforcement of the said rule, then the limit would be 90 percent instead of 75 percent. Further, if the acquire (holding 55% more but less than 75 percent) is desirous of consolidating his holding while ensuring that the public shareholding in



	<p>the target company does not fall below the minimum level permitted in the listing agreement, he may do so only by making a public announcement in accordance with these regulations. Irrespective of whether or not there has been any acquisition of shares or voting rights in a company, no acquirer should acquire control over the target company, unless such person makes a public announcement to acquire shares and acquires such shares in accordance with the regulations.</p> <p>The regulations give enough scope for existing shareholders to consolidate and also cover the scenario of indirect acquisition of control. The applications for takeovers are scrutinised by the Takeover Panel constituted by the SEBI.</p>
Buy Back	<p>Buy Back is done by the company with the purpose to improve liquidity in its shares and enhance the shareholders' wealth. Under the SEBI (Buy Back of Securities) Regulations, 1998, a company is permitted to buy back its shares or other specified securities by any of the following methods:-</p> <ul style="list-style-type: none"> ▪ From the existing security holders on a proportionate basis through the tender offer ▪ From the open market through (i) book building process (ii) stock exchange ▪ From odd-lot holders. <p>The company has to disclose the pre and post-buy back holding of the promoters. To ensure completion of the buy back process speedily, the regulations have stipulated time limit for each step. For example in the cases of purchases through tender offer an offer for buy back should not remain open for more than 30 days. The company should complete the verifications of the offers received within 15 days of the closure of the offer and shares or other specified securities. The payment for accepted securities has to be made within 7 days of the completion of verification and bought back shares have to be extinguished and physically destroyed within 7 days of the date of the payment. Further, the company making an offer for buy back will have to open an escrow account on the same lines as provided in takeover regulations.</p>
Circuit Breakers	<p>Volatility in stock prices is a cause of concern for both the policy makers and the investors. To curb excessive volatility, SEBI has prescribed a system of circuit breakers. The circuit breakers bring about a nation-wide coordinated halt in trading on all the equity and equity derivatives markets. An index based market-wide circuit breaker system applies at three stages of the index movement either way at 10%, 15% and 20%. The breakers are triggered by movement of either Nifty 50 or Sensex, whichever is breached earlier. Further, the NSE views entries of non-genuine orders with utmost seriousness as this has market-wide repercussion. It may suo-moto cancel the orders in the absence of any immediate confirmation from the members that these orders are genuine or for any other reason as it may deem fit. As an additional measure of safety, individual scrip-wise price bands has been fixed as below:</p> <ul style="list-style-type: none"> • Daily price bands of 2% (either way) on a set of specified securities, • Daily price bands of 5% (either way) on a set of specified securities, • Price bands of 20% (either way) on all remaining securities (including debentures, warrants, preference shares etc which are traded on CM segment of NSE), • Daily price bands of 10% (either way) on specified securities, • No price bands are applicable on scrips on which derivative products are available or on scrips included in indices on which derivatives products are available. <p>For auction market the price bands of 20% are applicable. In order to prevent members from entering orders at non-genuine prices in these securities, the Exchange has fixed operating range of 20% for such securities.</p>

Demat Trading	A depository holds securities in dematerialized form. It maintains ownership records of securities in a book entry form, and also effects transfer of ownership through book entry. Though, the investors have a right to hold securities in either physical or demat form, SEBI has made it compulsory that trading in securities should be only in dematerialised form. This was initially introduced for institutional investors and was later extended to all investors. Starting with twelve scrips on January 15, 1998, all investors are required to mandatorily trade in dematerialized form. The companies, which fail to establish connectivity with both the depositories on the scheduled date as announced by SEBI, then their securities are traded on the 'trade for trade' settlement window of the exchanges.														
Statistics: NSDL & CDSL	<p>At the end of March 2010, the number of companies connected to NSDL and CDSL were 8,124 and 6,805 respectively. The number of dematerialised securities have increased from 353.69 billion at the end of March 2009 to 429.09 billion at the end of March 2010. However, during the same period the value of dematerialised securities has increased by 82.01% from ₹ 35,463 billion to ₹ 64,545 billion.</p> <p>Since the introduction of the depository system, dematerialisation has progressed at a fast pace and has gained acceptance amongst the market participants. All actively traded scrips are held, traded and settled in demat form. The details of progress in dematerialisation in two depositories, viz. NSDL and CDSL, as at the end of March 2010 and September 2010 are presented in (Table 4-4).</p> <p>The Depositories in India provide depository services to investors through Depository Participants (DPs). The Depositories do not charge the investors directly, but charge their DPs who in turn charge the clients. DPs are free to have their own charge structure for their clients. However, as per SEBI directive, DPs cannot charge investors towards opening of a Beneficiary Owner (BO) account (except statutory charges), credit of securities into BO account and custody charges. It may be added that the depositories have been reducing its charges along with the growth in volumes.</p>														
Charges for Services	<p>As per SEBI Regulations, every stockbroker, on the basis of his total turnover, is required to pay annual turnover charges, which are to be collected by the stock exchanges. In order to share the benefits of efficiency, NSE has been reducing the transaction charges over a period of time. A member was required to pay the exchange, transaction charges at the rate of 0.0035% (₹ 3.5 per ₹ 1 lakh) of the turnover till September, 2009. NSE has, with effect from October, 2009, changed the transaction charges structure to a slab based one, as below:</p> <table border="1" data-bbox="383 1255 1490 1726"> <thead> <tr> <th>Total Traded Value in a month</th> <th>Revised Transaction Charges (₹ per lakh of Traded Value)</th> </tr> </thead> <tbody> <tr> <td>Up to First ₹ 1250 cores</td> <td>₹ 3.25 each side</td> </tr> <tr> <td>More than ₹ 1250 crores up to ₹ 2500 crores (on incremental volume)</td> <td>₹ 3.20 each side</td> </tr> <tr> <td>More than ₹ 2500 crores up to ₹ 5000 crores (on incremental volume)</td> <td>₹ 3.15 each side</td> </tr> <tr> <td>More than ₹ 5000 crores up to ₹ 10000 crores (on incremental volume)</td> <td>₹ 3.10 each side</td> </tr> <tr> <td>More than ₹ 10000 crores up to ₹ 15000 crores (on incremental volume)</td> <td>₹ 3.05 each side</td> </tr> <tr> <td>Exceeding ₹ 15000 crores (on incremental volume)</td> <td>₹ 3.00 each side</td> </tr> </tbody> </table> <p>Trading members are also required to pay securities transaction tax (STT) on all delivery based transaction at the rate of 0.125% (payable by both buyer and seller) and in case of non-delivery transactions at the rate of 0.025% for equities payable by the seller only).</p>	Total Traded Value in a month	Revised Transaction Charges (₹ per lakh of Traded Value)	Up to First ₹ 1250 cores	₹ 3.25 each side	More than ₹ 1250 crores up to ₹ 2500 crores (on incremental volume)	₹ 3.20 each side	More than ₹ 2500 crores up to ₹ 5000 crores (on incremental volume)	₹ 3.15 each side	More than ₹ 5000 crores up to ₹ 10000 crores (on incremental volume)	₹ 3.10 each side	More than ₹ 10000 crores up to ₹ 15000 crores (on incremental volume)	₹ 3.05 each side	Exceeding ₹ 15000 crores (on incremental volume)	₹ 3.00 each side
Total Traded Value in a month	Revised Transaction Charges (₹ per lakh of Traded Value)														
Up to First ₹ 1250 cores	₹ 3.25 each side														
More than ₹ 1250 crores up to ₹ 2500 crores (on incremental volume)	₹ 3.20 each side														
More than ₹ 2500 crores up to ₹ 5000 crores (on incremental volume)	₹ 3.15 each side														
More than ₹ 5000 crores up to ₹ 10000 crores (on incremental volume)	₹ 3.10 each side														
More than ₹ 10000 crores up to ₹ 15000 crores (on incremental volume)	₹ 3.05 each side														
Exceeding ₹ 15000 crores (on incremental volume)	₹ 3.00 each side														



	<p>The maximum brokerage chargeable by trading member in respect of trades effected in the securities admitted to dealing on the CM segment of the Exchange is fixed at 2.5% of the contract price, exclusive of statutory levies like, securities transaction tax, SEBI turnover fee, service tax and stamp duty. However, the brokerage charges as low as 0.15% are also observed in the Market.</p> <p>Stamp duties are payable as per the rates prescribed by the relevant states. In Maharashtra, for brokers having registered office in Maharashtra, it is charged at @ Re. 1 for every ₹ 10,000 or part thereof (i.e. 0.01%) of the value of security at the time of purchase/sale as the case may be. However, if the securities are not delivered, it is levied at @ 20 paise for every ₹ 10,000 or part thereof (i.e. 0.002%).</p> <p>As per the Finance Bill, 2008 Stock Exchanges and Clearing House Services are being charged a service tax on services rendered by them in relation to assisting, regulating or controlling the business of buying, selling or dealing in securities and including services provided in relation to trading, processing, clearing and settlement of transactions in securities, goods and forward contracts w.e.f 16th May, 2008.</p>
Institutional Trades	<p>Trades by Mutual Funds (MFs) and Foreign Institutional Investors are termed as Institutional trades. Transactions by MFs in the secondary market are governed by SEBI (Mutual Funds) Regulations, 1996. A MF under all its schemes is not allowed to own more than 10% of any company's paid up capital. They are allowed to do only 'delivery-based' transactions. With effect from 21st April, 2008 a MF may engage in short selling of securities in accordance with the framework relating to short selling and securities lending and borrowing specified by SEBI. A MF cannot invest more than 10% of the NAV of a particular scheme in the equity shares or equity related instruments of a single company.</p> <p>The investments by FIIs are governed by the rules and regulations of the RBI and the SEBI. As per the RBI guidelines, total holding of each FII/sub-accounts should not exceed 10% of the total paid up capital or paid up value of each series of convertible debentures. Further total holding of all the FIIs/sub- accounts put together should not exceed 24% of the paid up capital or paid up value of each series of convertible debentures. This limit of 24% can be increased to the sectoral cap / statutory limit as applicable to the Indian company concerned, by passing a resolution of its Board of Directors followed by a special resolution to that effect by its General Body.</p>

Table 4-2 A: Eligibility Criteria for Membership – CORPORATES

(Amount in ₹ lakh)

Particulars/ Segments	CM	CM and F&O	WDM	CM and WDM	CM,WDM and F&O
Minimum Paid-up capital	30	30	30	30	30
Net Worth	100	100 (Membership in CM segment and Trading/Trading and self clearing membership in F&O segment) 300 (Membership in CM segment and Trading and Clearing membership in F&O segment)	200	200	200(Membership in WDM segment, CM segment and Trading/Trading and Self Clearing membership in F&O segment) 300(Membership in WDM segment, CM segment and Trading and Clearing membership in F&O segment)

Contd.

Contd.

Particulars/ Segments	CM	CM and F&O	WDM	CM and WDM	CM,WDM and F&O
Interest Free Security Deposit (IFSD) with NSEIL	85	110	150	235	260
Collateral Security Deposit (CSD) with NSEIL	NIL	NIL	NIL	NIL	NIL
Interest Free Security Deposit (IFSD) with NSCCL	15	15 *	NIL	15	15 *
Collateral Security Deposit (CSD) with NSCCL	25	25**	NIL	25	25**
Annual Subscription	1	1	1	2	2
Advance Minimum Transaction Charges for Futures Segment	NIL	1	NIL	NIL	1
Education	Two directors should be HSC. Dealers should also have passed SEBI approved certification test for Capital Market Module of NCFM.	Two directors should be HSC. Dealers should also have passed SEBI approved certification test for Derivatives and Capital Market Module of NCFM.	Two directors should be HSC. Dealers should also have passed FIMMDA-NSE Debt Market (Basic Module) of NCFM.	Two directors should be HSC. Dealers should also have passed FIMMDA-NSE Debt Market (Basic Module) of NCFM.& Capital Market Module of NCFM.	Two directors should be HSC. Dealers should also have passed FIMMDA-NSE Debt Market (Basic Module) of NCFM, Capital Market Module of NCFM.& SEBI approved certification test for Derivatives
Experience	—————Two year's experience in securities market—————				
Track Record	The Directors should not be defaulters on any stock exchange. They must not be debarred by SEBI for being associated with capital market as intermediaries. They must be engaged solely in the business of securities and must not be engaged in any fund-based activity.				

Net worth requirement for Professional Clearing members in F&O segment is ₹ 300 lakhs. Further, a Professional Clearing member needs to bring IFSD of 25 lakhs with NSCCL and Collateral Security Deposit (CSD) of 25 lakhs with NSCCL as deposits.

*Additional IFSD of 25 lakhs with NSCCL is required for Trading and Clearing (TM-CM) and for Trading and Self clearing member (TM/SCM).

** Additional Collateral Security Deposit (CSD) of 25 lakhs with NSCCL is required for Trading and Clearing (TM-CM) and for Trading and Self clearing member (TM/SCM).

In addition, a member clearing for others is required to bring in IFSD of ₹ 2 lakh and CSD of ₹ 8 lakh per trading member he undertakes to clear in the F&O segment.

Table 4-2 B: Requirements for Professional Clearing Membership

(All values in ₹ lakh)

Particulars	CM Segment	F&O Segment	CM and F&O Segment
Eligibility	Trading Member of NSE/SEBI Registered Custodians/Recognised Banks		
Net Worth	300	300	300
Interest Free Security Deposit (IFSD) *	25	25	34
Collateral Security Deposit (CSD)	25	25	50
Annual Subscription	2.5	Nil	2.5

* The Professional Clearing Member (PCM) is required to bring in IFSD of ₹ 2 lakh and CSD of ₹ 8 lakh per trading member whose trades he undertakes to clear in the F&O segment and IFSD of ₹ 6 lakh and CSD of ₹ 17.5 lakh (₹ 9 lakh and ₹ 25 lakh respectively for corporate Members) per trading member in the CM segment.



Contd.

Table 4-2 C: Eligibility Criteria for Membership- Individuals/ Partnership Firms.

(Amount in ₹ lakh)

Particulars	CM	CM and F&O	WDM	CM and WDM	CM,WDM and F&O
Net Worth	75	75 (Membership in CM segment and Trading membership in F&O segment) 100 (Membership in CM segment and Trading and Self clearing membership in the F&O segment) 300 (Membership in CM segment and Trading and Clearing membership in F&O segment)	200	200	200 (Membership in WDM segment, CM segment and Trading/Trading and Self Clearing membership in F&O segment) 300 (Membership in WDM segment,CM segment and Trading and clearing membership on F&O segment)
Interest Free Security Deposit (IFSD) with NSEIL	26.5	51.5	150	176.5	201.5
Collateral Security Deposit (CSD) with NSEIL	NIL	NIL	NIL	NIL	NIL
Interest Free Security Deposit (IFSD) with NSCCL	6	6 *	NIL	6	6*
Collateral Security Deposit (CSD) with NSCCL	17.5	17.5 **	NIL	17.5	17.5 **
Annual Subscription	0.5	0.5	1	1.5	1.5
Advance Minimum Transaction Charges for Futures Segment	NIL	1	NIL	NIL	1

*Additional IFSD of 25 lakhs with NSCCL is required for Trading and Clearing Members (TM-CM) and for Trading and Self clearing member (TM/SCM).

** Additional Collateral Security Deposit (CSD) of 25 lakh with NSCCL is required for Trading and Clearing (TM-CM) and for Trading and Self clearing member (TM/SCM).

Table 4-2 D: CURRENCY DERIVATIVES- Corporates, Individuals and Firms

(Amount in ₹ lakh)

Particulars	NSE Members		NCDEX Members		New Applicants
	Trading Membership	Trading cum Clearing Membership	Trading Membership	Trading cum Clearing Membership	Trading Membership
Networth	100	1000	100	1000	100
Cash to NSEIL	2	2	2	2	2
Non Cash to NSEIL	8	8	10.5	13	13
Cash to NSCCL	NIL	25	NIL	25	NIL
Non cash to NSCCL	NIL	25	NIL	25	NIL
Education	Two directors should be HSC. Dealers should also have passed SEBI approved National Institute of Securities Markets (NISM) Series I – Currency Derivatives Certification Examination	Two directors should be HSC. Dealers should also have passed SEBI approved National Institute of Securities Markets (NISM) Series I – Currency Derivatives Certification Examination	Two directors should be HSC. Dealers should also have passed SEBI approved National Institute of Securities Markets (NISM) Series I – Currency Derivatives Certification Examination	Two directors should be HSC. Dealers should also have passed SEBI approved National Institute of Securities Markets (NISM) Series I – Currency Derivatives Certification Examination	Two directors should be HSC. Dealers should also have passed SEBI approved National Institute of Securities Markets (NISM) Series I – Currency Derivatives Certification Examination

Contd.

Contd.

Particulars	NSE Members		NCDEX Members		New Applicants
	Trading Membership	Trading cum Clearing Membership	Trading Membership	Trading cum Clearing Membership	Trading Membership
Experience	-----Two year's experience in securities market-----				
Track Record	The Directors should not be defaulters on any stock exchange. They must not be debarred by SEBI for being associated with capital market as intermediaries. They must be engaged solely in the business of securities and must not be engaged in any fund-based activity.				

In case the member is opting for membership of any other segment(s) in combination with the membership of Currency Derivatives segment, the applicable net worth will be the minimum net worth required for the other segment(s) or the minimum net worth required for Currency Derivatives Segment, whichever is higher.

The eligibility condition for applicants planning to apply for new membership of the Exchange is that either the proprietor/one designated director/partner or the Compliance Officer of the applicant entity should be successfully certified either in Securities Market (Basic) Module or Compliance Officers (Brokers) Module or the relevant module pertaining to the segments wherein membership of the Exchange had been sought.

Table 4-3: Listing Criteria for Companies on the CM Segment of NSE

Criteria	Initial Public Offerings (IPOs)	Companies listed on other exchanges
Paid-up Equity Capital (PUEC)/Market Capitalisation (MC) /Net Worth	PUEC \geq ₹ 10 cr. and MC \geq ₹ 25 cr.	PUEC \geq ₹ 10 cr. and MC \geq ₹ 25 cr. OR PUEC \geq ₹ 25 cr. OR MC \geq ₹ 50 cr. OR The company shall have a net worth of not less than ₹ 50 crores in each of the preceding financial years.
Company/ Promoter's Track Record	Atleast 3 years track record of either a) the applicant seeking listing OR b) the promoters/promoting company incorporated in or outside India OR c) Partnership firm and subsequently converted into Company not in existence as a Company for three years) and approaches the Exchange for listing. The Company subsequently formed would be considered for listing only on fulfillment of conditions stipulated by SEBI in this regard.	Atleast three years track record of either a) the applicant seeking listing; OR b) the promoters/promoting company, incorporated in or outside India.
Dividend Record / Net worth / Distributable Profits	--	Dividend paid in at least 2 out of the last 3 financial years immediately preceding the year in which the application has been made OR The networth of the applicants atleast ₹50 crores OR The applicant has distributable profits in at least two out of the last three financial years.
Listing		Listed on any other stock exchange for at least last three years OR listed on the exchange having nationwide trading terminals for at least one year.
Other Requirements	(a) No disciplinary action by other stock exchanges/regulatory authority in past 3 yrs. (b) Satisfactory redressal mechanism for investor grievances, (c) distribution of shareholding and (d) details of litigation record in past 3 years (e) Track record of Directors of the Company	(a) No disciplinary action by other stock exchanges/regulatory authority in past 3 yrs. (b) Satisfactory redressal mechanism for investor grievances, (c) distribution of shareholding and (d) details of litigation record in past 3 years (e) Track record of Directors of the Company (f) Change in control of a Company/Utilisation of funds raised from public

Contd.



Contd.

Note:

1. (a) In case of IPOs, Paid up Equity Capital means post issue paid up equity capital.
(b) In case of Existing companies listed on other exchanges, the existing paid up equity capital as well as the paid up equity capital after the proposed issue for which listing is sought shall be taken into account.
2. (a) In case of IPOs, market capitalisation is the product of the issue price and the post-issue number of equity shares.
(b) In case of Existing companies listed on other stock exchanges the market capitalisation shall be calculated by using a 12 month moving average of the market capitalisation over a period of six months immediately preceding the date of application. For the purpose of calculating the market capitalisation over a 12 month period, the average of the weekly high and low of the closing prices of the shares as quoted on the National Stock Exchange during the last twelve months and if the shares are not traded on the National Stock Exchange such average price on any of the recognised Stock Exchanges where those shares are frequently traded shall be taken into account while determining market capitalisation after making necessary adjustments for Corporate Action such as Rights / Bonus Issue/Split.
3. In case of Existing companies listed on other stock exchanges, the requirement of ₹25 crores market capital shall not be applicable to listing of securities issued by Government Companies, Public Sector Undertakings, Financial Institutions, Nationalised Banks, Statutory Corporations and Banking Companies who are otherwise bound to adhere to all the relevant statutes, guidelines, circulars, clarifications etc. that may be issued by various regulatory authorities from time to time
4. Net worth means paid-up equity capital + reserves excluding revaluation reserve - miscellaneous expenses not written off - negative balance in profit and loss account to the extent not set off.
5. Promoters mean one or more persons with minimum 3 years of experience of each of them in the same line of business and shall be holding at least 20% of the post issue equity share capital individually or severally.
6. In case a company approaches the Exchange for listing within six months of an IPO, the securities may be considered as eligible for listing if they were otherwise eligible for listing at the time of the IPO. If the company approaches the Exchange for listing after six months of an IPO, the norms for existing listed companies may be applied and market capitalisation be computed based on the period from the IPO to the time of listing.

Table 4-4: Progress of Dematerialisation: NSDL & CDSL as at the end of the period.

Parameters of Progress	NSDL				CDSL			
	Mar-08	Mar-09	Mar-10	Sep-10	Mar-08	Mar-09	Mar-10	Sep-10
Companies - Agreement signed	7,354	7,801	8,124	8,514	5,943	6,213	6,975	7,392
Companies - Available for Demat	7,354	7,801	8,124	8,514	5,943	6,213	6,975	7,392
Market Cap. of Companies available (₹bn.)	52,197	31,103	61,843	71,363	51,626	31,437	62,196	73,363
Number of Depository Participants	251	275	286	288	420	468	490	521
Number of DP Locations	7,204	8,777	11,170	12,042	6,372	6,934	8,590	9,735
No. of Investor Accounts	9,372,335	9,685,568	1,05,84,868	1,09,50,604	4,798,222	5,527,479	6,585,746	6,986,061
Demat Quantity (mn.)	236,897	282,270	351,138	407,719	49,820	70,820	77,950	87,040
Demat Value (₹ bn.)	43,770	31,066	56,178	65,485	5,900	4,397	8,367	9,782

Source: NSDL & CDSL.

Index Services

A stock index consists of a set of stocks that are representative of either the whole market, or a specified sector. It helps to measure the change in overall behaviour of the markets or sector over a period of time. Many indices are cited by news or financial services firms and are used to benchmark the performance of portfolios such as mutual funds.

NSE and CRISIL, have jointly promoted the India Index Services & Products Limited (IISL). The IISL provides stock index services by developing and maintaining an array of indices for stock prices. It has a licensing and marketing agreement with Standard and Poor's (S&P), the world's leading provider of investible equity indices, for co-branding equity indices. IISL maintains a number of equity indices comprising broad-based benchmark indices, sectoral indices and customised indices. They are maintained professionally to ensure that it continues to be a consistent benchmark

Table 4-5: Capital Market Market Turnover on Stock Exchanges in India

Stock Exchanges	Capital Market Turnover												Share in Turnover (%)			
	2007-08			2008-09			2009-10			Apr'10 - Sep'10			2007-08	2008-09	2009-10	Apr'10 - Sep'10
	(₹ mn.)	(US \$ million)	(₹ mn.)	(US \$ million)	(₹ mn.)	(US \$ million)	(₹ mn.)	(US \$ million)	(₹ mn.)	(US \$ million)	(₹ mn.)	(US \$ million)				
1 NSE	35,510,380	888,426	27,520,230	540,142	41,380,230	916,709	17,677,130	393,525	69.21	71.43	75.01	75.04				
2 BSE	15,788,570	395,011	11,000,740	215,912	13,788,090	305,452	5,878,250	130,860	30.77	28.55	24.99	24.96				
3 Calcutta	4460	112	3930	77	0	-	0	0	0.01	0.01	0.00	0.00				
4 Uttar Pradesh	4,750	119	890	17	250	6	10	0	0.01	0.0023	0.00	0.00				
5 Ahmedabad	0	0	0	0	0	0	0	0	0	0	0	0.00				
6 Delhi	0	0	0	0	0	0	0	0	0	0	0	0.00				
7 Pune	0	0	0	0	0	0	0	0	0	0	0	0.00				
8 Ludhiana	0	0	0	0	0	0	0	0	0	0	0	0.00				
9 Bangalore	0	0	0	0	0	0	0	0	0	0	0	0.00				
10 ICSE	0	0	0	0	0	0	0	0	0	0	0	0.00				
11 Madras	0	0	0	0	0	0	0	0	0	0	0	0.00				
12 Madhya Pradesh	0	0	0	0	0	0	0	0	0	0	0	0.00				
13 Vadodara	0	0	0	0	0	0	0	0	0	0	0	0.00				
14 OTCEI	0	0	0	0	0	0	0	0	0	0	0	0.00				
15 Gauhati	0	0	0	0	0	0	0	0	0	0	0	0.00				
16 Cochin	0	0	0	0	0	0	0	0	0	0	0	0.00				
17 Bhubaneshwar	0	0	0	0	0	0	0	0	0	0	0	0.00				
18 Coimbatore	0	0	0	0	0	0	0	0	0	0	0	0.00				
19 Jaipur	0	0	0	0	0	0	0	0	0	0	0	0.00				
Total	51,308,160	1,283,667	38,525,790	756,149	55,168,570	1,222,166	23,555,390	524,385	100	100	100	100	100	100	100	100

Source: SEBI



Table 4-6: Stock Market Indicators - Monthly Trends on NSE and BSE

Month	Turnover						Average Daily Turnover						Market Capitalisation (end of period)					
	NSE			BSE			NSE			BSE			NSE			BSE		
	₹ mn	US \$ mn	₹ mn	₹ mn	US \$ mn	₹ mn	₹ mn	US \$ mn	₹ mn	₹ mn	US \$ mn	₹ mn	₹ mn	US \$ mn	₹ mn	₹ mn	US \$ mn	
2007-08	35,510,382	888,426	15,788,552	395,010	141,476	3,540	62,903	1,574	48,581,217	1,215,442	51,380,140	1,285,468						
Apr-08	2,712,269	53,234	1,154,543	22,660	135,613	2,662	57,730	1,133	54,427,796	1,068,259	57,942,920	1,137,251						
May-08	2,779,229	54,548	1,216,701	23,880	138,961	2,727	60,840	1,194	50,988,729	1,000,760	54,288,780	1,065,531						
Jun-08	2,644,282	51,900	1,136,046	22,297	125,918	2,471	54,100	1,062	41,036,509	805,427	43,750,210	858,689						
Jul-08	2,958,162	58,060	1,239,160	24,321	128,620	2,524	53,880	1,058	44,324,270	869,956	47,325,440	928,860						
Aug-08	2,342,507	45,977	999,240	19,612	117,130	2,299	49,960	981	44,724,610	877,814	47,788,640	937,952						
Sep-08	2,622,612	51,474	1,080,900	21,215	124,890	2,451	51,470	1,010	39,001,850	765,493	41,653,870	817,544						
Oct-08	2,161,984	42,433	782,270	15,354	108,100	2,122	39,110	768	28,203,880	553,560	29,972,590	588,275						
Nov-08	1,731,228	33,979	636,940	12,501	96,180	1,888	35,390	695	26,532,810	520,762	28,189,640	553,280						
Dec-08	2,129,560	41,797	808,660	15,872	101,410	1,990	38,510	756	29,167,680	572,477	31,447,670	617,226						
Jan-09	1,911,835	37,524	705,100	13,839	95,590	1,876	35,250	692	27,987,070	549,305	29,995,250	588,719						
Feb-09	1,498,575	29,413	543,300	10,663	78,870	1,548	28,590	561	26,756,220	525,147	28,628,710	561,898						
Mar-09	2,027,985	39,803	697,890	13,698	101,400	1,990	34,890	685	28,961,940	568,438	30,860,750	605,707						
2008-09	27,520,230	540,142	11,000,750	215,913	113,250	2,223	45,270	889	28,961,940	568,438	30,860,750	605,707						
Apr-09	2,666,960	55,713	889,430	18,580	156,880	3,277	52,320	1,093	33,750,250	705,040	35,869,780	749,316						
May-09	3,825,610	79,917	1,285,420	26,852	191,280	3,996	64,270	1,343	45,645,720	953,535	48,650,450	1,016,304						
Jun-09	4,824,140	100,776	1,591,950	33,256	219,280	4,581	72,360	1,512	44,325,960	925,965	47,499,340	992,257						
Jul-09	4,261,429	89,021	1,389,860	29,034	185,280	3,870	60,430	1,262	48,164,590	1,006,154	51,399,420	1,073,729						
Aug-09	3,649,688	76,242	1,223,190	25,552	173,795	3,631	58,250	1,217	49,757,998	1,039,440	52,856,570	1,104,169						
Sep-09	3,650,631	76,261	1,242,200	25,949	182,532	3,813	62,110	1,297	53,538,796	1,118,421	57,083,370	1,192,466						
Oct-09	3,629,688	75,824	1,140,070	23,816	181,484	3,791	57,000	1,191	50,248,302	1,049,683	53,759,200	1,123,025						
Nov-09	3,244,768	67,783	1,051,420	21,964	162,238	3,389	52,570	1,098	54,300,880	1,134,340	57,952,090	1,210,614						
Dec-09	2,929,004	61,187	980,820	20,489	139,476	2,914	46,710	976	56,996,368	1,190,649	60,813,080	1,270,380						
Jan-10	3,384,426	70,700	1,170,840	24,459	178,128	3,721	61,620	1,287	57,829,647	1,208,056	59,257,250	1,237,879						
Feb-10	2,451,434	51,210	825,100	17,236	122,572	2,561	41,250	862	57,553,054	1,202,278	59,049,290	1,233,534						
Mar-10	2,862,455	59,796	997,790	20,844	136,307	2,847	47,510	992	60,091,732	1,255,311	61,656,190	1,287,992						
2009-10	41,380,234	864,429	13,788,090	288,032	169,591	3,543	56,510	1,180	60,091,732	1,255,311	61,656,190	1,287,992						
Apr-10	2,765,655	61,568	939,290	20,910	138,283	3,078	46,960	1,045	61,178,575	1,361,945	62,831,960	1,398,752						
May-10	2,846,249	63,363	866,800	19,297	129,375	2,880	39,400	877	59,325,783	1,320,699	60,912,640	1,356,025						
Jun-10	2,861,092	63,693	924,930	20,591	130,050	2,895	42,040	936	62,291,356	1,386,718	6,394,001	142,342						
Jul-10	2,785,508	62,010	929,570	20,694	126,614	2,819	42,250	941	63,401,199	1,411,425	6,510,777	144,942						
Aug-10	3,119,937	69,455	1,128,820	25,130	141,815	3,157	51,310	1,142	63,934,175	1,423,290	65,620,250	1,460,825						
Sep-10	3,298,687	73,435	1,088,850	24,240	157,080	3,497	51,850	1,154	69,585,335	1,549,095	71,258,070	1,586,333						
Apr'10 - Sep'10	17,677,127	393,525	5,878,250	130,860	137,032	3,051	45,570	1,014	69,585,335	1,549,095	71,258,070	1,586,333						

Source : SEBI



of the equity markets, which involves inclusion and exclusion of stocks in the index, day-to-day tracking and giving effect to corporate actions on individual stocks. Many investment and risk management products based on IISL indices have been developed in the recent past, within India and abroad. These include index based derivatives traded on NSE, Singapore Exchange (SGX) and Chicago Mercantile Exchange (CME) and a number of index funds and exchange traded funds.

Some of the important indices of NSE, which are largely tracked by investors are:

Indices	Particulars	Base date of the Index
S&P CNX NIFTY (NIFTY 50)	Blue chip index of NSE which is most popular and widely used stock market indicator in the country. It consists of diversified 50 stocks index accounting for 23 sectors of the economy and accounts for 63% of the Free Float Market Capitalization of NSE as on Dec 31, 2010.	November 3, 1995
CNX Nifty Junior	This index contains the next rung of liquid securities after Nifty 50. The maintenance of the Nifty 50 and the CNX Nifty Junior are synchronised so that the two indices will always be disjoint sets. This index accounts for about 11.61% of the Free Float Market Capitalization of NSE as on Dec 31, 2010.	November 3, 1996
CNX 100	This is a diversified 100 stock index accounting for 35 sector of the economy, which is a combination of the Nifty 50 and CNX Nifty Junior. CNX 100 represents about 74% of the Free Float market capitalization as on Dec 31, 2010.	January 1, 2003
S&P CNX 500	This is India's first broad-based benchmark of the Indian capital market and helps in comparing portfolio returns vis-a-vis market returns. It represents about 92.27% of the Free Float Market Capitalization and about 81.52% of the total turnover on the NSE as on December 31, 2010. Industry weightages in the index reflect the industry weightages in the market. For e.g. if the banking sector has a 5% weightage in the universe of stocks traded on NSE, banking stocks in the index would also have an approximate representation of 5% in the index	1994
Nifty Midcap 50 and CNX Midcap	The primary objective of the Nifty Midcap 50 Index and CNX Midcap is to capture the movement of the midcap segment of the market segment which is being increasingly perceived as an attractive investment segment with high growth potential	January 1, 2004 January 1, 2003

Besides the above, IISL also has a number of sectoral indices which reflect the share market trend of these particular sectors. These include, CNX IT Index, CNX Bank Index, CNX FMCG Index, CNX PSE Index, CNX MNC Index, CNX Service Sector Index, S&P CNX Industry Indices, CNX Energy Index, CNX Pharma Index, CNX Infrastructure Index, CNX PSU BANK Index, CNX Realty Index etc.

CNX Dividend Opportunities Index:

The CNX Dividend Opportunities Index is designed to provide exposure to high yielding companies listed on NSE while meeting stability and tradability requirements. The CNX Dividend Opportunities Index comprises of 50 companies. The methodology employs a yield driven selection criteria that aims to maximize yield while providing stability and tradability. Currently the index comprises of companies from 24 different sectors. The index is capped at stock level of 10% i.e. no individual stock can have weightage of more than 10% in the index at any given point of time. CNX Dividend Opportunities Index represents about 13% of the free float market capitalization of the companies listed on NSE and 40% of the free float market capitalization of the companies forming part of the Dividend Opportunities eligible universe.





Source : NSE

The criteria for the CNX Dividend Opportunities Index include the following:

- Companies must rank within the top 500 companies ranked by average free-float market capitalization and aggregate turnover for the last six months.
- Earnings growth over 3 years must be positive.
- Companies should have a positive Net worth as per latest annual audited results.
- Companies must have reported net profit as per latest annual audited results.
- Top 50 companies ranked by Annual Dividend Yield will form part of the index.
- The maximum weightage of each company in the index shall be 10%.
- In order to reduce the turnover of constituents that form part of the index, a buffer of 100% of total number of index constituents shall be applied at the time of each review. This means that if the existing constituent at the time of the review ranks within the top 100 rank, the same can be retained in the index.

Index and Exchange Traded Funds today are a source of investment for investors looking at a long term, less risky form of investment. The success of index funds depends on their low volatility and therefore the choice of the index. IISL's indices are used by a number of well known mutual funds in India for promoting Index Funds. Most ETFs charge lower annual expenses than index mutual funds. The first ETF in India, "Nifty BeEs (Nifty Benchmark Exchange Traded Scheme) based on S&P CNX Nifty, was launched in January 2002 by Benchmark Mutual Fund.

In continuation of its efforts to develop indices that meet the requirements of market participants, IISL has launched CNX Smallcap Index. The CNX Smallcap Index is designed to reflect the behaviour and performance of the small capitalised segment of the financial market. The index is calculated using free float market capitalisation methodology with a base date of January 1, 2004 indexed to a base value of 1000. The index will be maintained by IISL and the review will be carried out on a semi-annual basis.

E. Market Outcome

Turnover and Market Capitalisation - Growth

Trading volumes in the equity segments of the stock exchanges have witnessed a phenomenal growth over the last few

years. The trading volumes saw a considerable increase in late 1990's. The compounded annual growth rate of trading volumes on all the stock exchanges taken together has been 12.27% over the period 2001-02 to 2009-10.

NSE and BSE, were the only two stock exchange which reported significant trading volumes. With the exception of Uttar Pradesh Stock Exchange, all other stock exchanges did not report any trading volumes during 2009-10 and 2010-11 (Apr-Sep). NSE consolidated its position as the market leader by contributing 75.01% of the total turnover in India in 2009-10 and 75.04% in first two quarter of 2010-11. Since its inception in 1994, NSE has emerged as the favoured exchange among trading members. The consistent increase in popularity of NSE is clearly evident from Annexure 4-2, which presents the business growth of CM segment of NSE. Not only in the national arena, but also in the international markets, NSE has been successful in creating a niche for itself.

Looking at trends in turnover in NSE and BSE over 2007-08 to latest first half of 2010-11 (Table 4-5), one finds that 2009-10 saw upsurge in turnover on the exchanges, mainly on account of recovery of the global financial markets. The turnover on the NSE rose by 50.36% in 2009-10 compared with 2008-09 and that on the BSE it rose by 25.34% over the same period. The average daily turnover on the NSE stood at US \$ 3.5 billion in 2009-10 compared to US \$ 2.0 billion in 2008-09. Though the average daily turnover on the BSE rose to US \$ 1.1 billion in 2009-10 from 0.89 billion in the previous year, it is still below the average daily turnover of US \$ 1.6 billion recorded in 2007-08.

According to the WFE statistics, in terms of number of trades in equity shares, NSE ranks fourth with 1,630,438 thousands of trades as end of December 2009 and third with 1,140,580 thousands of trades during January 2010 to September 2010. The trade details of the top ranked stock exchanges are presented in Table 4-7.

Table 4-7: Total Number of Trades in Equity Shares (in thousands)

Exchange	End December 2008	End December 2009	End September 2010
Nasdaq	3,779,392	3,996,426	1,395,735
NYSE Euronext (US)	4,050,573	2,744,355	1,603,539
Shanghai Stock Exchange	1,278,881	2,142,611	1,118,041
NSE	1,368,050	1,630,438	1,140,580
Shenzhen SE	658,047	1,256,007	897,062
Korea Exchange	641,754	909,418	666,704

Source : WFE Reports

As the trends in turnover showed a jump in 2009-10 compared to 2008-09, the same was the case with market capitalization for securities available for trading on the equity segment of NSE and BSE. After witnessing enormous growth during 2007-08 in comparison to 2006-07, 2008-09 saw a fall in market capitalization followed by jump in 2009-10 over 2008-09 levels (Table 4-5). The market capitalization of NSE, which as at end March 2008 amounted to ₹ 48,581,217 million (US \$ 1,215 billion), were down to ₹ 28,961,940 million (US \$ 568 billion) on the NSE as at end March 2009. As at end September 2010, there has been some increase in market capitalization to US \$ 1,549 billion from US \$ 1,255 billion for NSE as at end of March 2010.

World Traded Value and market capitalization

In 2009, United States ranked first in terms of traded value of US \$ 46,736 billion and also in terms of market capitalization of US \$ 15,077 billion. China ranked second with the traded value of US \$ 8,956 billion followed by Japan and then United Kingdom. In terms of market capitalization, China was at second slot with a market capitalization of US \$ 5,008 billion, followed by Japan. India ranked eleventh both in terms of traded value (US \$ 1,089 billion) and market capitalization (US \$ 1,179 billion) for 2009 (Table 4-7).



Table 4-8: Top 20 countries by Value Traded and market capitalisation, 2009

Rank	Country	Total Value Traded (US\$ millions)	Country	Total market capitalisation (USD mn)
1	United States	46,735,935	United States	15,077,286
2	China	8,956,188	China	5,007,646
3	Japan	4,192,624	Japan	3,288,793
4	United Kingdom	3,402,496	United Kingdom	2,796,444
5	Spain	1,599,262	Hongkong	2,291,578
6	Korea	1,581,487	France	1,972,040
7	Hongkong	1,489,635	Canada	1,680,958
8	France	1,365,807	Germany	1,297,568
9	Germany	1,288,867	Spain	1,297,227
10	Canada	1,239,626	Australia	1,258,456
11	India	1,088,889	India	1,179,235
12	Taiwan	1,066,132	Brazil	1,167,335
13	Switzerland	795,556	Switzerland	1,070,694
14	Australia	761,820	Russia	861,424
15	Russia	682,540	Korea	836,462
16	Brazil	649,187	South Africa	704,822
17	Netherlands	604,159	Taiwan	695,865
18	Italy	459,728	Netherlands	542,533
19	Sweden	390,324	Sweden	432,296
20	South Africa	342,502	Mexico	340,565

Source: S&P Global Stock Markets Factbook 2010

Emerging markets



Developed markets



Table 4-9: Market capitalisation and Turnover of BRIC Economies

Country	Traded Value (in US \$ millions)		YoY Percentage Change	Market capitalisation (in US \$ millions)		YoY Percentage Change
	December-08	December-09		December-08	December-09	
Brazil	727,793	649,187	-10.80	589,384	1,167,335	98.06
Russia	562,230	682,540	21.40	1,321,833	861,424	-34.83
India	1,049,748	1,088,889	3.73	645,478	1,179,235	82.69
China	5,470,529	8,956,188	63.72	2,793,613	5,007,646	79.25
BRIC Economies	7,810,300	11,376,804	45.66	5,350,308	8,215,640	53.55
Emerging Market Economies	12,720,872	15,959,679	25.46	9,277,306	13,806,558	48.82
World Total	80,516,822	80,418,059	-0.12	35,811,160	48,713,724	36.03
Percentage share of BRIC Economies to						
1) Total turnover/market capitalisation of Emerging Economies	61.40	71.28		57.67	59.51	
2) Total turnover/market capitalisation of World	9.70	14.15		14.94	16.87	

Source: S&P Global Stock Markets Factbook 2010

The BRIC (Brazil, Russia, India, China) economies posted an year-on-year jump of 46% in the trading value from US \$ 7,810 billion in 2008 to US \$ 11,377 billion in 2009 (Table 4-9). China witnessed the highest rise in turnover over this period, followed by United States and Russia. India recorded a 4% year-on-year growth in turnover. As regards market capitalization, there was a jump of 54% as at end December 2009 compared to end December 2008, as against a fall of 51% at end December 2008 compared with end December, 2007. The largest upsurge in market capitalization was in Brazil, followed by India and then Taiwan. Chinese markets witnessed an increase in market capitalization of over 79%. The share of BRIC Economies in total traded value of emerging economies was substantially up in 2009 to 71.28% compared to 61.40% in 2008. Similarly, the share of BRIC economies in total world market capitalization increased from 57.67% in 2008 to 59.51% in 2009.

Market Movements

The movement of few of the selected indices placed in table 4-10 brings out the trends witnessed in the Indian and foreign markets during 2008-09 and 2009-10. A global comparison of these selected indices, during these years, shows a varied kind of performance in 2008-09. However, during 2009-10, all these indices witnessed extra-ordinary returns in the range of 30 to 80%.

The period Apr'10 to Sep'09 saw some consolidation in index performance. S&P CNX Nifty saw a maximum return of 14.9%, whereas Nikkei index witnessed a small correction of 15.5%.

Table 4-10: Movement of Select Indices on Indian & Foreign Markets

Region	Index - Country	31-Mar-08	31-Mar-09	31-Mar-10	30-Sep-10	Change during 2008-09 (%)	Change during 2009-10 (%)	Change during Apr'10 - Sep'10 (%)
Americas	Dow Jones	12262.89	7608.92	10856.63	10788.05	-37.95	42.68	-0.63
	Nasdaq	2279.10	1528.59	2397.96	2368.62	-32.93	56.87	-1.22
Europe	FTSE 100- UK	5702.10	3926.10	5679.60	5548.60	-31.15	44.66	-2.31
	CAC- France	4707.07	2807.34	3,974.01	3,715.18	-40.36	41.56	-6.51
Asia Pacific	Nifty 50 (S&P CNX Nifty)- India	4734.50	3020.95	5249.10	6029.95	-36.19	73.76	14.88
	BSE Sensex- India	15644.44	9708.50	17527.77	20069.12	-37.94	80.54	14.50
	Hang Seng- Hong Kong (China)	22849.20	13576.02	21239.35	22358.17	-40.58	56.45	5.27
	Nikkei- Japan	12525.54	8109.53	11089.94	9369.35	-35.26	36.75	-15.51
	TAI- Taiwan	8572.59	5210.84	7920.06	8,237.78	-39.22	51.99	4.01

Source: NSE, BSE & Bloomberg.

Comparing the movement of the Nifty, Sensex and Nasdaq over 2009-10 (all indices rebased for 1 April 2009), as depicted in chart 4-3, it is seen that Nifty 50 performed better than the rest all indices during most part of the year. The returns on the NASDAQ were 56% during 2009-10, while that on FTSE 100 and Hang Seng were 45% and 56% respectively, over the same period (Table 4-10).

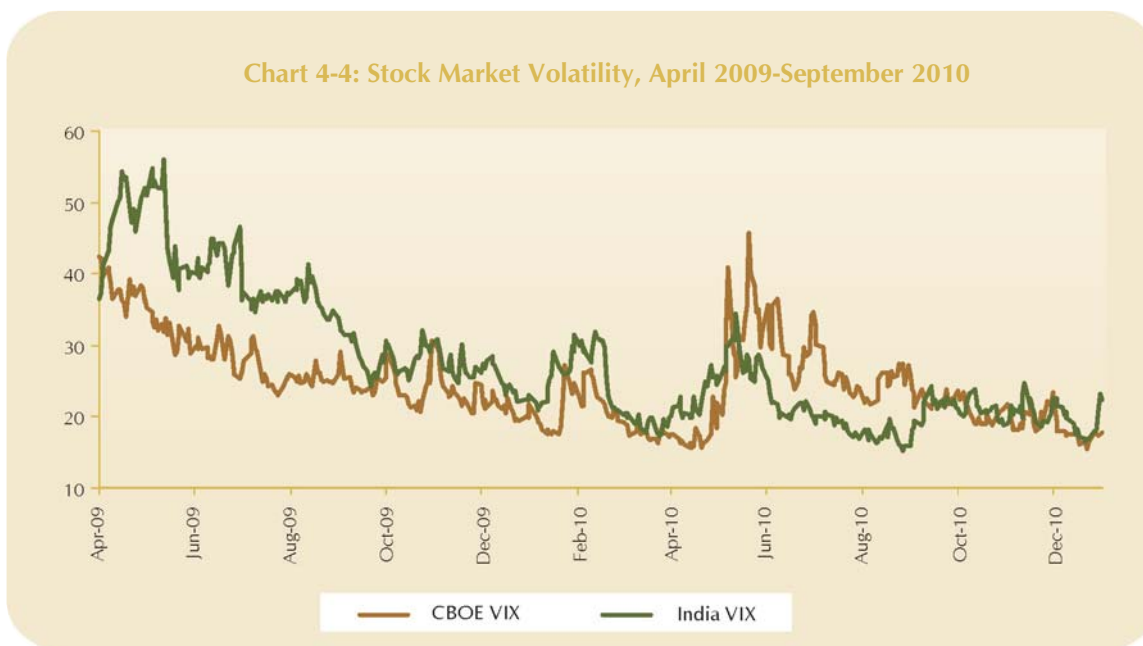




Source : NSE, Bloomberg

Volatility

The volatility of S&P CNX Nifty (Nifty 50) and Sensex since April 2009 is presented in Table 4-11. The stock markets witnessed maximum volatility during May 2009, when the volatility in Nifty was 4.15% and that in Sensex was 4.2%. May 2009 was a comparatively more volatile month due to a political uncertainty, as India held general elections to the 15th Lok Sabha between 16 April 2009 and 13 May 2009. Volatility was lowest in the month of July 2010. Volatility of S&P CNX Nifty represented by index India VIX and CBOE VIX is also plotted in (Chart 4-4). It can be observed that the S&P CNX Nifty was extremely volatile in comparison to the CBOE for the months of April 2009 to March, 2010.



Source : NSE, Bloomberg

Table 4-11: Stock Market Index, Volatility and P/E Ratio: April 2009 to Sep 2010

Month/Year	Nifty 50			Sensex		
	Index	Volatility (%)**	P/E Ratio*	Index	Volatility (%)**	P/E Ratio*
Apr-09	3473.95	2.18	16.53	11403.25	2.12	15.94
May-09	4448.95	4.15	20.82	14625.25	4.20	19.87
Jun-09	4291.10	1.92	19.97	14493.84	1.75	19.02
Jul-09	4636.00	2.22	20.68	15670	2.21	20.35
Aug-09	4662.00	1.78	20.94	15667	1.78	20.45
Sep-09	5084.00	0.92	22.9	17127	0.9	22.19
Oct-09	4712.00	1.08	20.45	15896	1.08	20.21
Nov-09	5033.00	1.58	22.37	16926	1.57	21.53
Dec-09	5201.00	1.05	23.17	17465	1.01	22.36
Jan-10	4882.00	1.03	21	16358	0.98	20.32
Feb-10	4922.00	1.18	20.92	16429	1.15	20.15
Mar-10	5249.00	0.70	22.33	17528	0.68	21.32
Apr-10	5278.00	0.80	22.29	17558.71	0.8	21.28
May-10	5086.30	1.60	21.3	16944.63	1.5	19.96
Jun-10	5312.50	1.20	22.25	17700.9	1.2	20.57
Jul-10	5367.60	0.60	22.31	17868.29	0.6	21.2
Aug-10	5402.40	0.70	22.73	17971.12	0.7	21.61
Sep-10	6029.95	0.8	25.46	20069.12	0.8	22.99

Source: NSE, BSE, SEBI

* As on the last trading day of the month.

** Volatility is calculated as standard deviation of the Natural Log of returns of indices for the respective period

The volatility across different sectoral indices for the period April 2009 to September 2010 varied widely (Table 4-13). The CNX IT index was the most volatile index with the highest volatility among the sectoral indices during most of the months. The month of May 2009 saw the highest volatility of 4.37% in this index.

Returns in Indian Market

The performance of Nifty 50 and various other indices as at the end of March 2010 and September 2010 of the last one month to 12 months is presented in table 4-12. Over a one year horizon, as at end March 2010, all indices have shown extraordinary returns in the range of 70% to 150%, with the largest gain in the CNX Nifty Junior index. Six month returns are also positive for all indices as at end March 2010. As at end September 2010, one year returns are positive for all indices. CNX Midcap index gave a return of 36% in September 2010 compared to September 2009.

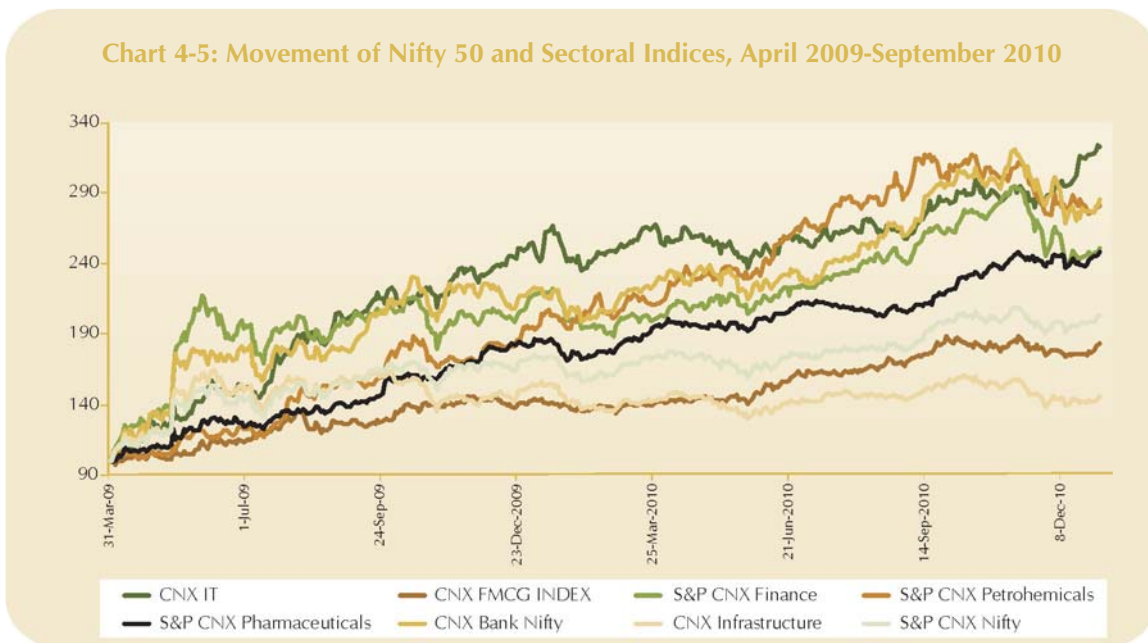


Table 4-12: Performance of Select Indices - NSE

As at end March 2010- In percent				
	1 month	3 month	6 month	1 year
S&P CNX Nifty	6.64	0.92	3.25	73.76
S&P CNX 500	4.5	-0.37	4.72	87.95
S&P CNX Defty	9.48	4.68	10.51	96.61
CNX Nifty junior	6.67	3.77	15.1	148.45
CNX Midcap	7.5	3.66	14.77	126.12
As at end Sep 2010 - In percent				
	1 month	3 month	6 month	1 year
S&P CNX Nifty	11.62	13.5	14.88	18.61
S&P CNX 500	8.55	11.41	14.19	19.58
S&P CNX Defty	16.86	17.62	14.9	26.97
CNX Nifty Junior	6.68	11.33	16.81	34.45
CNX Midcap	5.58	12.71	18.94	36.51

Source : NSE

The comparative performance of five major sectoral indices, viz. S&P CNX Petrochemicals Index, S&P CNX Finance Index, CNX FMCG Index, S&P CNX Pharma Index, and CNX IT Index, with that of Nifty 50 Index for the period April 2009-December 2010 is presented in (Chart 4-5). During the early part of financial 2009-10 the S&P CNX Finance Index was giving maximum returns. However, after August 2009, CNX IT and CNX Bank Nifty indices were better performers in terms of returns. Except for CNX Infrastructure and CNX FMCG index, all other sectoral indices gave better returns than Nifty.



Source : NSE

The monthly closing prices of these sectoral indices are presented in (Table 4-13).

Table 4-13: Performance of Sectoral Indices

Month/ Year	Monthly Closing Prices						Average Daily Volatility (%)					
	S&P CNX Nifty (Nifty 50)	S&P CNX FMCG	S&P CNX IT	Finance	S&P CNX Petrochem- icals	S&P CNX Pharma- ceuticals	S&P CNX Nifty (Nifty 50)	S&P CNX FMCG	S&P CNX IT	Fi- nance	S&P CNX Petro- chem- icals	S&P CNX Phar- ma- ceuti- cals
Apr-09	3473.95	5299.81	2770.85	2270.87	3443.65	3743.35	2.18	1.57	2.24	2.5	1.76	1.53
May-09	4448.95	5410.16	3206.2	3674.26	3865.73	4220.82	4.15	2.68	4.37	3.93	2.10	2.98
Jun-09	4291.1	5838.79	3497.65	3541.65	3967.54	4305.48	1.92	1.72	1.93	2.67	1.43	1.58
Jul-09	4636.45	6936.45	4330.05	3605.76	4627.7361	4678.38	2.18	1.52	2.44	2.47	2.34	1.21
Aug-09	4662.1	6474.87	4618.35	3636.25	5059.1	4862.33	1.70	1.94	1.78	1.72	1.79	1.05
Sep-09	5083.95	6633.73	5122.1	3806.71	5581.62	5519.48	1.03	1.24	1.36	1.50	1.99	0.97
Oct-09	4711.7	7163.97	5048.8	3478.26	5457.7456	5486.79	1.32	1.03	1.49	1.36	0.83	0.79
Nov-09	5032.7	7399.71	5364.2	3625.42	5585.4336	5954.59	1.19	1.13	1.21	1.70	0.98	0.75
Dec-09	5201.05	7207.39	5818.4	3860.71	6297.9684	6296.95	1.00	0.75	0.79	0.95	1.15	0.90
Jan-10	4882.05	7012.42	5594.15	3647.59	6257.642	6039.33	0.97	0.84	1.77	1.41	1.24	1.03
Feb-10	4922.3	6885.71	5766.7	3576.15	6528.8953	6238.08	1.14	0.82	1.13	1.35	1.96	0.79
Mar-10	5249.1	7273.3026	5855.95	3687.3607	6918.3268	6804.0682	0.58	0.62	0.93	0.64	0.94	0.62
Apr-10	5278	7467.132	5985.8	3918.7657	7477.2758	6803.4037	0.79	0.62	1.00	0.95	1.25	0.57
May-10	5086.3	7665.181	5761.95	3878.1623	7601.0799	6951.0714	1.49	1.15	1.49	1.49	1.12	1.00
Jun-10	5312.5	8404.3848	5928.3	4075.3981	8686.9076	7369.6981	1.13	0.97	1.19	0.99	1.29	0.54
Jul-10	5367.6	8370.1722	6086.85	4295.3814	9117.8065	7158.5461	0.61	0.53	1.00	0.42	0.90	0.34
Aug-10	5402.4	8746.074	5974.9	4375.1673	9320.9491	7121.7763	0.62	0.81	1.10	0.97	1.33	0.60
Sep-10	6029.95	9571.1896	6613.4	4785.1588	9998.7476	7684.3435	0.75	0.98	1.10	0.78	1.52	0.60

Source : NSE

Exchange Traded Funds

The first ETF in India, the “Nifty BeEs (Nifty Benchmark Exchange Traded Scheme) based on Nifty 50 was launched in December 2001 by Benchmark Mutual Fund. It is bought and sold like any other stock on NSE and has all characteristics of an index fund. Details about ETFs are available in Chapter 3.

Liquidity

Many listed securities on stock exchanges are not traded actively. The percentage of companies traded on BSE was quite low in comparison to that on NSE during the period April 2009 to September 2010. In September 2010, only 40.80% of companies traded on BSE while 98.80% of companies traded on NSE. (Table 4-14)



Table 4-14: Trading Frequency on NSE & BSE

Month/Year	NSE			BSE		
	Companies Available for Trading*	Companies Traded	% of Traded to Available for Trading	Listed Securities *	Traded Securities	% of Traded to Listed Securities
Mar-06	929	920	99.03	7,311	2,548	34.85
Apr-09	1,329	1,266	95.26	7,771	2,557	32.90
May-09	1,280	1,268	99.06	7,729	2,870	37.13
Jun-09	1,282	1,268	98.91	8,098	2,703	33.38
Jul-09	1,287	1,269	98.60	7,745	2,828	36.51
Aug-09	1,288	1,272	98.76	7,758	2,911	37.52
Sep-09	1,287	1,275	99.07	7,792	2,917	37.44
Oct-09	1,291	1,274	98.68	7,768	2,844	36.61
Nov-09	1,292	1,286	99.54	7,887	2,896	36.72
Dec-09	1,303	1,297	99.54	7,831	2,999	38.30
Jan-10	1,338	1,320	98.65	7,882	2,923	37.08
Feb-10	1,342	1,328	98.96	7,974	2,907	36.46
Mar-10	1,359	1,343	98.82	8,072	2,963	36.71
Apr-10	1,367	1,346	98.46	8,155	3,039	37.27
May-10	1,374	1,349	98.18	8,155	2,937	36.01
Jun-10	1,388	1,364	98.27	8,214	3,024	36.82
Jul-10	1,392	1,373	98.64	8,239	3,080	37.38
Aug-10	1,408	1,389	98.65	7,639	3,072	40.21
Sep-10	1,412	1,395	98.80	7,633	3,114	40.80

Source: SEBI and NSE.

* At the end of the month. Includes listed/permited to trade companies but excludes suspended companies.

The companies traded on BSE for more than 100 days during 2009-10 was 88.58% and that on NSE, was 92.86% (Table 4-15). During the year 2009-10, 4.12% of BSE listed companies witnessed trading for less than 11 days and only 0.93% of NSE companies traded for less than 11 days.

Table 4-15: Trading Frequency of Listed Stocks

Trading Frequency (Range of Days)	2007-08				2008-09				2009-10			
	BSE		NSE		BSE		NSE		BSE		NSE	
	No. of Shares Traded	Per-centage of Total	No. of Shares Traded	Per-centage of Total	No. of Shares Traded	Per-centage of Total	No. of Shares Traded	Per-centage of Total	No. of Shares Traded	Per-centage of Total	No. of Shares Traded	Per-centage of Total
Above 100	2,868	90.59	1,177	92.97	2,831	87.22	1,273	97.85	2,986	88.58	1,301	92.86
91-100	17	0.54	5	0.39	29	0.89	5	0.38	22	0.65	15	1.07
81-90	18	0.57	17	1.34	32	0.99	4	0.31	26	0.77	3	0.21
71-80	18	0.57	7	0.55	21	0.65	0	0.00	24	0.71	9	0.64
61-70	18	0.57	11	0.87	24	0.74	1	0.08	27	0.80	2	0.14
51-60	18	0.57	7	0.55	25	0.77	2	0.15	21	0.62	23	1.64
41-50	15	0.47	7	0.55	33	1.02	4	0.31	30	0.89	6	0.43
31-40	15	0.47	6	0.47	34	1.05	4	0.31	29	0.86	6	0.43
21-30	33	1.04	9	0.71	32	0.99	2	0.15	28	0.83	9	0.64
11-20	43	1.36	13	1.03	38	1.17	3	0.23	39	1.16	14	1.00
1-10	103	3.25	7	0.55	147	4.53	3	0.23	139	4.12	13	0.93
Total	3,166	100.00	1,266	100.00	3,246	100.00	1,301	100.00	3,371	100.00	1,401	100.00

Source: BSE, NSE

Takeovers

In 2009-10, there were 48 takeovers under open category involving ₹ 32,930 million (US \$ 730 million) as against 99 takeovers involving ₹ 47,110 million (US \$ 925 million) during the preceding year (Table 4-16). Under the exempted category there were 206 takeovers involving ₹ 138,640 million (US \$ 3,071 million) as against 227 takeovers involving ₹ 105,020 million (US \$ 2,061 million) in the previous year.

Table 4-16: Substantial Acquisition of Shares and Takeovers

Year	Open Offers									Automatic Exemption		
	Objectives						Total			Number	Value of Shares Acquired	
	Change in Control of Management		Consolidation of Holdings		Substantial Acquisition						₹ mn	(US \$ mn)
	Number	Value (₹ mn)	Number	Value (₹ mn)	Number	Value (₹ Mn)	Number	Value (₹ mn)	Value (US \$ Mn)			
1994-95	0	0	1	1,140	1	42	2	1,182		--	--	
1995-96	4	301	4	255	0	0	8	556		--	--	
1996-97	11	118	7	783	1	23	19	924		--	--	
1997-98	18	1,429	10	3,398	13	956	41	5,784		93	35,022	
1998-99	29	997	24	4,163	12	3,271	65	8,430	199	201	18,881	445
1999-00	42	2,588	9	711	23	1,300	74	4,599	105	252	46,774	1,072
2000-01	70	11,404	5	1,890	2	425	77	13,719	294	248	48,732	1,045
2001-02	54	17,562	26	18,152	1	390	81	36,104	740	276	25,390	520
2002-03	46	38,144	40	25,733	2	14	88	63,891	1,345	238	24,284	511
2003-04	38	3,952	16	1,966	11	10,030	65	15,948	368	171	14,357	331
2004-05	35	35,030	12	1,650	14	9,640	61	46,320	1,059	212	69,580	1,590
2005-06	78	32,520	9	1,190	15	7,090	102	40,800	915	245	171,320	3,840
2006-07	66	67,710	15	44,980	6	830	87	113,520	2,604	223	186,080	4,269
2007-08	78	116,570	28	132,540	8	37,960	114	287,070	7,182	232	64,580	1,616
2008-09	80	37,130	13	5,980	6	4,000	99	47,110	925	227	105,020	2,061
2009-10	39	20,530	7	11,850	2	550	48	32,930	730	206	138,640	3,071
Apr 2010 - Sep 2010	5	2,880	5	8,590	8	680	18	12,160	271	216	102,660	2,285
Total	693	388,866	231	264,971	125	77,201	1,049	731,048	16,735	3,040	1,051,320	22,658

Source: SEBI.

Settlement Statistics

The details of settlement of trades on CM segment of NSE are provided in Annexure 4-3. There has been a substantial reduction in short and bad deliveries. Short deliveries averaged around 0.18% of total delivery in 2009-10, a marginal decline compared to that of 2008-09. The ratio of bad deliveries to net deliveries progressively declined to almost negligible in 2009-10.

During 2009-10, taking all stock exchanges together, 25.07% of securities accounting for 22.26% turnover were settled by delivery and the balance were squared up/netted out (Table 4-17). In the preceding year, 23.15% of shares accounting for 21.83% of turnover were settled by delivery. This indicates preference for non-delivery-based trades.



Table 4-17: Delivery Pattern in Stock Exchanges

Sr. no	Exchange	2008-09		2009-10	
		Quantity	Value	Quantity	Value
1	NSE	21.38	22.18	21.49	22.15
2	BSE	26.55	20.94	31.99	22.58
3	Calcutta	93.19	94.66	73.32	48.88
4	Delhi	0.00	0.00	0.00	0.00
5	Ahmedabad	0.00	0.00	0.00	0.00
6	Uttar Pradesh	1.26	0.19	0.56	0.16
7	Bangalore	0.00	0.00	0.00	0.00
8	Ludhiana	0.00	0.00	0.00	0.00
9	Pune	0.00	0.00	0.00	0.00
10	OTCEI	0.00	0.00	0.00	0.00
11	ISE	0.00	0.00	0.00	0.00
12	Madras	0.00	0.00	0.00	0.00
13	Vadodara	0.00	0.00	0.00	0.00
14	Bhubaneshwar	0.00	0.00	0.00	0.00
15	Coimbatore	0.00	0.00	0.00	0.00
16	Madhya Pradesh	0.00	0.00	0.00	0.00
17	Jaipur	0.00	0.00	0.00	0.00
18	Gauhati	0.00	0.00	0.00	0.00
19	Cochin	0.00	0.00	0.00	0.00
	Total	23.15	21.83	25.07	22.26

Source: SEBI.

* Delivery ratio represents percentage of delivery to turnover of a Stock Exchange

Quantity = qty shares delivered as a % of no. of shares traded

Value = value of shares delivered as a % of turnover

F. Risk Management:

A sound risk management system is integral to an efficient settlement system. The NSCCL ensures that trading members' obligations are commensurate with their net worth. It has put in place a comprehensive risk management system, which is constantly monitored and upgraded to pre-empt market failures. It monitors the track record and performance of members and their net worth; undertakes on-line monitoring of members' positions and exposure in the market, collects margins from members and automatically disables members if the limits are breached. The risk management methods adopted by NSE have brought the Indian stock market in line with the international markets.

Risk Containment Measures

The risk containment measures have been repeatedly reviewed and revised to be up to date with the market realities.

Capital Adequacy

The capital adequacy requirements stipulated by the NSE are substantially in excess of the minimum statutory requirements as also in comparison to those stipulated by other stock exchanges. Corporates seeking membership in the CM and F&O segment are required to have a net worth of ₹ 100 lakh, and keep an interest free security deposit of ₹ 125

lakh and collateral security deposit of ₹ 25 lakh with the Exchange/NSCCL. The deposits kept with the Exchange as part of the membership requirement may be used towards the margin requirement of the member. Additional capital may be provided by the member for taking additional exposure. The capital adequacy norms for Corporates, Individuals/partnership firms are presented in detail in Table 4-1.

On-line Monitoring

NSCCL has put in place an on-line monitoring and surveillance system, whereby exposure of the members is monitored on a real time basis. A system of alerts has been built in so that both the member and the NSCCL are alerted as per pre-set levels (reaching 70%, 85%, 90%, 95% and 100%) as and when the members approach these limits. The system enables NSCCL to further check the micro-details of members' positions, if required and take pro-active action.

The on-line surveillance mechanism also generates alerts/reports on any price/volume movement of securities not in line with past trends/patterns. Open positions of securities are also analyzed. For this purpose the exchange maintains various databases to generate alerts. These alerts are scrutinized and if necessary taken up for follow up action. Besides this, rumors in the print media are tracked and where they are found to be price sensitive, companies are approached to verify the same. This is then informed to the members and the public.

Off-line Surveillance Activity

Off-line surveillance activity consists of inspections and investigations. As per regulatory requirement, trading members are to be inspected in order to verify the level of compliance with various rules, byelaws and regulations of the exchange. The inspection verifies if investors' interests are being compromised in the conduct of business by the members.

Margin Requirements

NSCCL imposes stringent margin requirements as a part of its risk containment measures. The categorization of stocks for imposition of margins has the structure as given below;

- The Stocks which have traded at least 80% of the days for the previous six months shall constitute the Group I and Group II.
- Out of the scrips identified for Group I & II category, the scrips having mean impact cost of less than or equal to 1% are categorized under Group I and the scrips where the impact cost is more than 1, are categorized under Group II.
- The remaining stocks are classified into Group III.
- The impact cost is calculated on the 15th of each month on a rolling basis considering the order book snapshots of the previous six months. On the basis of the impact cost so calculated, the scrips move from one group to another group from the 1st of the next month.
- For securities that have been listed for less than six months, the trading frequency and the impact cost are computed using the entire trading history of the security.

Categorisation of newly listed securities

For the first month and till the time of monthly review a newly listed security is categorised in that Group where the market capitalization of the newly listed security exceeds or equals the market capitalization of 80% of the securities in that particular group. Subsequently, after one month, whenever the next monthly review is carried out, the actual trading frequency and impact cost of the security is computed, to determine the liquidity categorization of the security.

In case any corporate action results in a change in ISIN, then the securities bearing the new ISIN are treated as newly listed security for group categorization.

Daily margins comprises of VaR margin, Extreme Loss margin and Mark to Market margin.



1. Value at Risk Margin

All securities are classified into three groups for the purpose of VaR margin

- For the securities listed in Group I, scrip wise daily volatility calculated using the exponentially weighted moving average methodology is applied to daily returns. The scrip wise daily VaR is 3.5 times the volatility so calculated subject to a minimum of 7.5%.
- For the securities listed in Group II, the VaR margin is higher of scrip VaR (3.5 sigma) or three times the index VaR, and it is scaled up by root 3.
- For the securities listed in Group III the VaR margin is equal to five times the index VaR and scaled up by root 3.

The index VaR, for the purpose, is the higher of the daily Index VaR based on S&P CNX NIFTY or BSE SENSEX, subject to a minimum of 5%. NSCCL may stipulate security specific margins from time to time.

The VaR margin rate computed as mentioned above is charged on the net outstanding position (buy value-sell value) of the respective clients on the respective securities across all open settlements. There is no netting off of positions across different settlements. The net position at a client level for a member is arrived at and thereafter, it is grossed across all the clients including proprietary position to arrive at the gross open position.

The VaR margin is collected on an upfront basis by adjusting against the total liquid assets of the member at the time of trade.

The VaR margin so collected is released on completion of pay-in of the settlement or on individual completion of full obligations of funds and securities by the respective member/custodians after crystallization of the final obligations on T+1 day.

2. Extreme Loss Margin

The Extreme Loss Margin for any security is higher of:

- a. 5%, or
- b. 1.5 times the standard deviation of daily logarithmic returns of the security price in the last six months. This computation is done at the end of each month by taking the price data on a rolling basis for the past six months and the resulting value is applicable for the next month.

The Extreme Loss Margin is collected/ adjusted against the total liquid assets of the member on a real time basis. The Extreme Loss Margin is collected on the gross open position of the member. The gross open position for this purpose means the gross of all net positions across all the clients of a member including its proprietary position. There is no netting off of positions across different settlements. The Extreme Loss Margin collected is released on completion of pay-in of the settlement or on individual completion of full obligations of funds and securities by the respective member/custodians after crystallization of the final obligations on T+1 day.

3. Mark to Market Margin

Mark to market loss is calculated by marking each transaction in security to the closing price of the security at the end of trading. In case the security has not been traded on a particular day, the latest available closing price at NSE is considered as the closing price. In case the net outstanding position in any security is nil, the difference between the buy and sell values shall be considered as notional loss for the purpose of calculating the mark to market margin payable.

The mark to market margin (MTM) is collected from the member before the start of the trading of the next day. The MTM margin is collected/adjusted from/against the cash/cash equivalent component of the liquid net worth deposited with the Exchange.

The MTM margin is collected on the gross open position of the member. The gross open position for this purpose means the gross of all net positions across all the clients of a member including its proprietary position. For this purpose, the position of a client is netted across its various securities and the positions of all the clients of a member are grossed.

Close Out Facility

An online facility to close-out open positions of members in the capital market segment whose trading facility is withdrawn for any reason, has been provided with effect from June 13, 2007,

On disablement, the trading members will be allowed to place close-out orders through this facility. Only orders which result in reduction of existing open positions at the client level would be accepted through the close-out facility in the normal market. Members would not be allowed to create any fresh position when in the close-out mode, to place close out orders with custodial participant code and to close out open positions of securities in trade for trade segment.

Index-based Market-wide Circuit Breakers

The index-based market-wide circuit breaker system applies at 3 stages of the index movement, either way viz. at 10%, 15% and 20%. These circuit breakers when triggered, bring about a coordinated trading halt in all equity and equity derivative markets nationwide. The market-wide circuit breakers are triggered by movement of either the BSE Sensex or the NSE S&P CNX Nifty, whichever is breached earlier.

- In case of a 10% movement of either of these indices, there would be a one-hour market halt if the movement takes place before 1:00 p.m. In case the movement takes place at or after 1:00 p.m. but before 2:30 p.m. there would be trading halt for ½ hour. In case movement takes place at or after 2:30 p.m. there will be no trading halt at the 10% level and market shall continue trading.
- In case of a 15% movement of either index, there shall be a two-hour halt if the movement takes place before 1 p.m. If the 15% trigger is reached on or after 1:00p.m. but before 2:00 p.m., there shall be a one-hour halt. If the 15% trigger is reached on or after 2:00 p.m. the trading shall halt for remainder of the day.
- In case of a 20% movement of the index, trading shall be halted for the remainder of the day.

These percentages are translated into absolute points of index variations on a quarterly basis. At the end of each quarter, these absolute points of index variations are revised for the applicability for the next quarter. The absolute points are calculated based on closing level of index on the last day of the trading in a quarter and rounded off to the nearest 10 points in case of S&P CNX Nifty.

NSE may suo moto cancel the orders in the absence of any immediate confirmation from the members that these orders are genuine or for any other reason as it may deem fit. The Exchange views entries of non-genuine orders with utmost seriousness as this has market-wide repercussion.

Daily Price Bands on Securities

As an additional measure of safety, individual scrip-wise price bands have been fixed as below:

- Daily price bands of 2% (either way)
- Daily price bands of 5% (either way)
- Daily price bands of 10% (either way)

No price bands are applicable on scrips on which derivative products are available or scrips included in indices on which derivative products are available (unless otherwise specified). In order to prevent members from entering orders at non-genuine prices in such securities, the Exchange has fixed operating range of 20%.

- Price bands of 20% (either way) on all remaining scrips (including debentures, preference shares etc).

The price bands for the securities in the Limited Physical Market are the same as those applicable for the securities in the Normal Market. For Auction market the price bands of 20% are applicable.



Settlement Guarantee Fund

The Settlement Guarantee Fund provides a cushion for any residual risk and operates like a self-insurance mechanism wherein members themselves contribute to the fund. In the event of a trading member failing to meet his settlement obligation, then the fund is utilized to the extent required for successful completion of the settlement. This has eliminated counter-party risk of trading on the Exchange. The market has full confidence that settlement shall take place in time and shall be completed irrespective of default by isolated trading members. As of September 2010, the Settlement Guarantee Fund was ₹ 5,261 Crore.

Annexure 4-1: Exchange -wise Brokers and Sub-brokers in India

Sr. No.	Exchanges	Participants at the end March					
		Registered Brokers			Registered Sub-Brokers		
		2008	2009	2010	2008	2009	2010
1	Ahmedabad	321	325	329	97	96	95
2	Bangalore	256	257	261	156	158	158
3	BSE	946	984	1,003	20,616	30,059	33,710
4	Bhubaneshwar	214	213	214	17	17	17
5	Calcutta	957	926	908	87	84	81
6	Cochin	435	435	438	42	43	41
7	Coimbatore	135	135	135	21	19	20
8	Delhi	374	375	455	277	261	255
9	Gauhati	103	103	98	4	4	4
10	ICSEIL	935	946	943	3	3	2
11	Jaipur	488	488	484	33	33	32
12	Ludhiana	297	301	300	37	36	36
13	Madhya Pradesh	174	174	192	5	5	5
14	Madras	181	183	193	112	110	109
15	NSE	1,129	1243	1,310	22,144	31,328	40,600
16	OTCEI	719	713	704	19	19	17
17	Pune	188	188	186	158	156	156
18	Uttar Pradesh	354	351	339	8	3	3
19	Vadodara	311	312	312	38	37	37
	Total	8,517	8,652	8,804	43,874	62,471	75,378

Source: SEBI



Annexure 4-2: Business Growth of CM Segment of NSE

Month/Year	No. of Trading Days	No. of Companies Traded	No. of Trades (mn.)	Traded Quantity (mn.)	Turnover (₹ mn.)	Average Daily Turnover (₹ mn.)	Turn-over Ratio (%)	Demat Securities Traded (mn.)	Demat Turnover (₹ mn.)	Demat Turn-over as a % of Total Turn-over	Market Capitalisation (₹ mn.) *
2001-02	247	1,019	175	27,841	5,131,674	20,776	80.58	27,772	5,128,661	99.94	6,368,610
2002-03	251	899	240	36,407	6,179,886	24,621	115.05	36,405	6,179,845	100.00	5,371,332
2003-04	254	804	379	71,330	10,995,339	43,289	98.09	71,330	10,995,339	100.00	11,209,760
2004-05	253	856	451	79,769	11,400,720	45,062	71.90	79,769	11,400,720	100.00	15,855,853
2005-06	251	928	609	84,449	15,695,579	62,532	55.79	84,449	15,695,579	100.00	28,132,007
2006-07	249	1,114	785	85,546	19,452,865	78,124	57.77	85,546	19,452,865	100.00	33,673,500
2007-08	251	1,244	1,173	149,847	35,510,382	141,476	73.09	149,847	35,510,382	100.00	48,581,217
2008-09	243	1,277	1,365	142,635	27,520,230	113,252	95.02	142,635	27,520,230	100.00	28,961,942
Apr-09	17	1,279	127	18,316	2,666,965	156,880	—	18,316	2,666,965	100.00	33,750,246
May-09	20	1,280	148	22,903	3,825,610	191,280	—	22,903	3,825,610	100.00	45,645,722
Jun-09	22	1,282	180	27,485	4,824,136	219,279	—	27,485	4,824,136	100.00	44,325,955
Jul-09	23	1,282	171	21,936	4,261,429	185,280	—	21,936	4,261,429	100.00	48,164,590
Aug-09	21	1,287	148	19,443	3,649,688	173,795	—	19,443	3,649,688	100.00	49,757,998
Sep-09	20	1,287	139	19,651	3,650,631	182,532	—	19,651	3,650,631	100.00	53,538,796
Oct-09	20	1,291	135	16,848	3,629,688	181,484	—	16,848	3,629,688	100.00	50,248,302
Nov-09	20	1,292	132	15,740	3,244,768	162,238	—	15,740	3,244,768	100.00	54,300,880
Dec-09	21	1,303	126	15,038	2,929,004	139,476	—	15,038	2,929,004	100.00	56,996,368
Jan-10	19	1,338	140	18,042	3,384,426	178,128	—	18,042	3,384,426	100.00	57,829,647
Feb-10	20	1,342	113	12,354	2,451,434	122,572	—	12,354	2,451,434	100.00	57,553,054
Mar-10	21	1,359	123	13,797	2,862,455	136,307	—	13,797	2,862,455	100.00	60,091,732
2009-10	244	1,359	1,682	221,553	41,380,234	169,591	68.86	221,553	41,380,234	100.00	60,091,732
Apr-10	20	1,367	121	14,406	2,765,655	138,283	—	14,406	2,765,655	100.00	61,178,575
May-10	22	1,374	125	13,981	2,846,249	129,375	—	13,981	2,846,249	100.00	59,325,783
Jun-10	22	1,388	125	14,362	2,861,092	130,050	—	14,362	2,861,092	100.00	62,291,356
Jul-10	22	1,392	122	13,942	2,785,508	126,614	—	13,942	2,785,508	100.00	63,401,199
Aug-10	22	1,408	136	15,247	3,119,937	141,815	—	15,247	3,119,937	100.00	63,934,175
Sep-10	21	1,412	137	17,329	3,298,687	157,080	—	17,329	3,298,687	100.00	69,585,335
Apr'09-Sep'10	129	1,412	765	89,266	17,677,127	137,032	25.40	89,266	17,677,127	100.00	69,585,335

Source : NSE

Annexure 4-3: Settlement Statistics in CM Segment of NSE

Month/ Year	No. of Trades (mn.)	Traded Quan- tity (mn.)	Quantity of Shares Delive- rable (mn.)	% of Shares Delive- rable to Total Shares Traded	Turnover (₹ mn.)	Value of Shares Delive- rable (₹ mn.)	Turn- over (US \$ mn.)	Value of Shares Delive- rable (US\$ mn.)	% of Delive- rable to Value of Shares Traded	Securities Pay-in (₹ mn.)	Short Delive- ry (Auc- tioned quan- tity) (mn.)	% of Short Delive- ry to Delive- ry	Unrecti- fied Delivery (Auc- tioned quantity) (mn.)	% of Un- rectified Bad Delive- ry to Delive- ry	Funds Pay- in (₹ mn.)
2005-06	600	81,844	22,724	27.77	15,168,390	4,093,525	340,022	91,762	26.99	4,079,759	89	0.39	0.00	0.00	1,314,256
2006-07	786	85,051	23,907	28.11	19,400,943	5,444,345	445,078	124,899	28.06	5,430,475	77	0.32	0.00	0.00	1,731,877
2007-08	1,165	148,123	36,797	24.84	35,199,186	9,728,029	880,640	22,033	27.64	9,706,179	100	0.27	0.00	0.00	3,095,432
2008-09	1,364	141,893	27,527	21.59	27,494,501	6,115,350	539,637	120,027	21.97	6,104,977	62.52	0.20	-	-	2,207,040
Apr-09	126	17,934	3,441	19.19	2,613,099	481,486	57,889	10,666	18.43	480,717	6.83	0.2	0.00	0.00	162,686
May-09	144	21,907	4,555	20.79	3,579,318	744,359	79,294	16,490	20.8	743,169	11.27	0.25	0.00	0.00	252,195
Jun-09	182	28,112	5,311	18.89	4,965,891	988,893	110,011	21,907	19.91	987,606	8.11	0.15	0.00	0.00	296,316
Jul-09	169	21,682	3,976	18.34	4,190,774	801,943	92,839	17,766	19.14	800,780	5.78	0.15	0.00	0.00	254,330
Aug-09	148	19,171	3,961	20.66	3,714,741	786,615	82,294	17,426	21.18	785,615	7.12	0.18	0.00	0.00	237,513
Sep-09	134	19,160	4,344	22.67	3,499,404	822,093	77,523	18,212	23.49	821,242	6.19	0.14	0.00	0.00	248,530
Oct-09	140	17,321	4,022	23.22	3,739,533	899,402	82,843	19,925	24.05	898,341	6.75	0.17	0.00	0.00	269,654
Nov-09	133	16,104	3,559	22.1	3,322,481	746,495	73,604	16,537	22.47	745,655	5.08	0.14	0.00	0.00	229,134
Dec-09	127	15,073	3,429	22.75	2,982,151	688,530	66,064	15,253	23.09	687,484	6.50	0.19	0.00	0.00	179,949
Jan-10	136	17,572	4,428	25.2	3,245,836	852,055	71,906	18,876	26.25	851,014	8.09	0.18	0.00	0.00	258,868
Feb-10	115	12,591	2,836	22.52	2,534,672	587,671	56,151	13,019	23.19	586,791	5.16	0.18	0.00	0.00	183,536
Mar-10	125	13,960	3,620	25.93	2,904,237	777,512	64,338	17,224	26.77	776,188	9.30	0.26	0.00	0.00	211,161
2009-10	1,679	220,588	47,481	21.86	41,292,136	9,177,054	914,757	203,302	22.40	9,164,601	86.19	0.18	0	0	2,783,871
Apr-10	120	14,072	3,896	27.69	2,733,438	747,444	60,851	16,639	27.34	747,444	6.92	0.18	0.00	0.00	193,105
May-10	125	14,160	3,733	26.36	2,879,308	761,223	64,099	16,946	26.44	761,223	5.16	0.14	0.00	0.00	235,415
Jun-10	124	14,101	3,461	24.54	2,827,478	708,010	62,945	15,762	25.04	708,010	6.00	0.17	0.00	0.00	222,920
Jul-10	122	14,013	3,871	27.63	2,767,341	767,535	61,606	17,087	27.74	767,535	5.97	0.15	0.00	0.00	201,454
Aug-10	136	15,369	4,439	28.88	3,164,313	875,209	70,443	19,484	27.66	875,209	14.65	0.33	0.00	0.00	216,752
Sep-10	130	15,691	4,499	28.67	3,029,842	874,714	67,450	19,473	28.87	874,714	8.78	0.2	0.00	0.00	273,162
April 10 to Sept- ember 10	757	87,406	23,899	27.30	17,401,719	4,734,134	387,394	105,390	27.18	4,734,134	47.48	0.20	0	0	1,342,807

Source : NSE, Bloomberg



Annexure 4-4: S&P CNX Nifty Index for September 2010

Sr. No.	Name of Security	Free Float Market Capitalisation (₹ crore)	Weightage (%)	Beta	R ²	Volatility (%)	Monthly Return (%)	Impact Cost (%)
1	ABB	4,128.50	0.26	0.59	0.30	1.19	(3.96)	0.08
2	ACC	8,791.66	0.56	0.68	0.46	1.36	4.74	0.06
3	AMBUJACEM	10,262.04	0.66	0.75	0.44	2.37	6.58	0.08
4	AXISBANK	33,802.45	2.16	1.13	0.66	1.11	(0.95)	0.06
5	BHEL	38,026.62	2.43	0.67	0.57	0.91	(1.28)	0.05
6	BPCL	9,836.37	0.63	0.28	0.13	2.65	18.66	0.07
7	BHARTIARTL	39,941.62	2.55	0.62	0.27	1.63	6.70	0.08
8	CAIRN	14,322.07	0.91	1.07	0.63	2.17	(0.54)	0.07
9	CIPLA	15,387.97	0.98	0.38	0.25	1.23	(7.06)	0.06
10	DLF	10,948.71	0.70	1.66	0.71	1.94	0.18	0.07
11	GAIL	20,754.39	1.33	0.57	0.36	1.38	5.37	0.08
12	HCLTECH	9,006.25	0.58	0.99	0.48	1.73	(2.46)	0.07
13	HDFCBANK	74,994.38	4.79	0.79	0.63	1.12	0.35	0.06
14	HEROHONDA	17,096.41	1.09	0.65	0.41	1.31	(1.28)	0.06
15	HINDALCO	21,626.86	1.38	1.94	0.74	1.91	3.77	0.08
16	HINDUNILVR	27,692.21	1.77	0.37	0.27	1.02	5.19	0.06
17	HDFC	80,762.19	5.16	0.98	0.67	1.50	5.19	0.09
18	ITC	85,365.55	5.45	0.60	0.43	1.43	5.68	0.08
19	ICICIBANK	109,040.86	6.96	1.57	0.81	1.95	8.05	0.06
20	IDEA	5,648.08	0.36	0.71	0.30	2.05	1.35	0.09
21	INFOSYSTCH	130,757.74	8.35	0.77	0.59	1.16	(2.67)	0.05
22	IDFC	20,346.95	1.30	1.22	0.62	1.21	(4.28)	0.07
23	JPASSOCIAT	12,517.34	0.80	1.70	0.72	1.81	(7.66)	0.07
24	JINDALSTEL	26,568.59	1.70	1.23	0.64	1.55	9.93	0.07
25	KOTAKBANK	14,344.85	0.92	1.25	0.68	1.50	7.43	0.07
26	LT	95,899.07	6.13	0.92	0.67	1.06	1.08	0.06
27	M&M	26,713.02	1.71	1.21	0.61	1.11	(5.26)	0.06
28	MARUTI	16,635.67	1.06	0.66	0.38	0.87	4.91	0.06
29	NTPC	25,044.46	1.60	0.62	0.56	0.86	(1.41)	0.05
30	ONGC	45,110.69	2.88	0.57	0.40	1.32	7.81	0.07
31	POWERGRID	6,244.41	0.40	0.50	0.43	1.57	8.37	0.07
32	PNB	15,704.54	1.00	0.77	0.58	1.52	10.26	0.06

Contd.

Contd.

Sr. No.	Name of Security	Free Float Market Capitalisation (₹ crore)	Weightage (%)	Beta	R ²	Volatility (%)	Monthly Return (%)	Impact Cost (%)
33	RANBAXY	7,457.28	0.48	0.88	0.50	1.37	9.11	0.06
34	RELCAPITAL	8,566.17	0.55	1.36	0.68	1.32	(3.21)	0.06
35	RCOM	10,396.14	0.66	1.15	0.46	1.60	(12.67)	0.07
36	RELIANCE	155,482.25	9.93	1.15	0.72	0.96	(8.96)	0.04
37	RELINFRA	14,050.81	0.90	1.27	0.64	1.44	(9.62)	0.07
38	RPOWER	5,555.91	0.35	1.06	0.59	1.03	(7.02)	0.07
39	SIEMENS	10,466.52	0.67	1.10	0.63	0.87	(0.98)	0.06
40	SBIN	71,283.59	4.55	1.13	0.67	1.97	10.53	0.05
41	SAIL	10,935.23	0.70	1.41	0.71	0.89	(8.48)	0.06
42	STER	23,960.80	1.53	1.72	0.74	1.66	(13.64)	0.07
43	SUNPHARMA	13,244.53	0.85	0.40	0.27	1.08	(0.35)	0.06
44	SUZLON	3,787.81	0.24	1.18	0.47	2.04	(18.14)	0.08
45	TCS	42,732.42	2.73	0.80	0.51	1.42	0.47	0.06
46	TATAMOTORS	32,229.55	2.06	1.50	0.62	2.07	19.38	0.06
47	TATAPOWER	19,781.69	1.26	0.72	0.54	0.81	(7.46)	0.05
48	TATASTEEL	31,853.53	2.03	1.73	0.76	1.61	(2.66)	0.06
49	UNITECH	10,434.16	0.67	1.86	0.70	2.33	(4.44)	0.08
50	WIPRO	20,083.31	1.28	0.86	0.54	1.44	(2.92)	0.07
		1,565,624	100.00	1.00	--	0.77	11.62	0.06

* Beta & R² are calculated for the period 01-Sep-2009 to 30-Sep-2010

* Beta measures the degree to which any portfolio of stocks is affected as compared to the effect on the market as a whole.

* The coefficient of determination (R²) measures the strength of relationship between two variables the return on a security versus that of the market.

* Volatility is the Std. deviation of the daily returns for the period 01-Sep-2010 to 30-Sep-2010

* Last day of trading was 30-Sep-2010

* Impact Cost for S&P CNX Nifty is for a portfolio of ₹ 50 Lakhs

* Impact Cost for S&P CNX Nifty is the weightage average impact cost



Debt Market¹

Introduction

The debt market in India comprises mainly of two categories – the government securities or the G-Sec markets consisting of central government, state governments securities and the corporate bond market. The government to finance its fiscal deficit floats the fixed income instruments and borrows by issuing G-Secs that are sovereign securities which are issued by the Reserve Bank of India (RBI) on behalf of Government of India. The corporate bond market (also known as non-Gsec market consists of FI (financial institutions) bonds, PSU (public sector units) bonds and corporate bonds/debentures.

The G-secs are the most dominant category of debt markets and form a major part of the market in terms of outstanding issues, market capitalization and trading value. It sets a benchmark for the rest of the market. The market for debt derivatives have not yet developed appreciably though a market for OTC derivatives in interest rate products exists. Exchange traded interest rate derivatives introduced recently are debt instruments; this market is currently small and would gradually pick up in the years to come.

Trends

During 2009-10, the government and corporate sector collectively mobilized ₹ 8,070,967 million (US \$ 178,799 million) from primary debt market, a rise of 31.77% as compared to the preceding year (Table 5-1). About 77.27% of the resources were raised by the government (Central and State Governments), while the balance amount was mobilized by the corporate sector through public and private placement issues. The turnover in secondary debt market during 2009-10 aggregated ₹ 85,780,050 million (US \$ 1,900,311 million), 36.78% higher than that in the previous fiscal year.

Table 5-1: Debt Market: Selected Indicators

Issuer / Securities	Amount raised from Primary Market		Turnover in Secondary Market		Amount raised from Primary Market		Turnover in Secondary Market	
	(₹ mn)				(US \$ mn)			
	2008-09	2009-10	2008-09	2009-10	2008-09	2009-10	2008-09	2009-10
Government	4,366,880	6,236,190 *	62,254,360	84,337,567 *	85,709	138,152	1,221,872	1,868,355
Corporate/Non Government	1,758,267	1,834,777	459,110	1,442,484	34,510	40,646	9,011	31,956
Total	6,125,147	8,070,967	62,713,470	85,780,050	120,219	178,799	1,230,883	1,900,311

Source : Primedatabase, RBI and NSE.

* includes NDS-OM turnover

¹ This chapter discusses the market design and outcome in the government securities market, both primary and secondary segment. Wherever possible, the developments in the secondary market for corporate debt are also covered in this chapter. The developments in primary corporate debt market are presented in Chapter 2 of this publication.

Policy Developments

I. Clearing and Settlement of trades in corporate bonds to be done through National Securities Clearing Corporation or the Indian Clearing Corporation from December 1, 2009

SEBI vide its circular dated October 16, 2009 informed the stock exchanges to undertake the clearing and settlement activity of trades in corporate bonds through the clearing corporations. SEBI had earlier authorized BSE, NSE and FIMMDA to set up and maintain reporting platforms to capture information related to trading in corporate bonds. Subsequently, SEBI authorized BSE and NSE to set up and maintain trading platforms for Corporate Bonds. It had been decided that all trades in corporate bonds between specified entities, namely, mutual funds, foreign institutional investors/sub-accounts, venture capital funds, foreign venture capital investors, portfolio managers, and RBI regulated entities as specified by RBI would be cleared and settled through the National Securities Clearing Corporation Limited (NSCCL) or the Indian Clearing Corporation Limited (ICCL) from December 1, 2009. This would be applicable to all corporate bonds traded over the counter (OTC) or on the debt segment of Stock Exchanges. However, this is not applicable to trades in corporate bonds that are traded on the capital market segment/ equity segment of the stock exchanges and are required to be settled through clearing corporations/ clearing houses of stock exchanges. Meanwhile, the Reserve Bank of India (RBI) had allowed both the clearing houses NSCCL and the ICCL to open transitory pooling accounts with the central bank in Mumbai to facilitate settlement of OTC corporate bond transactions in Real-Time Gross Settlement system on a trade-by-trade basis. Accordingly, the clearing and settlement of Corporate Bonds has started off at NSCCL. To facilitate this process the participation registration, settlement schedule, procedure and reports are put together in the circular dated November 23, 2009 placed on the NSE website.

II. RBI modifies guidelines for Securitization Companies/ Reconstruction Companies (SCs/RCs)

On 21 April 2010, the RBI modified the guidelines issued to SCs/RCs on various aspects to bring in more transparency and market discipline.

III. Repo in Corporate Debt Securities (Reserve Bank) Directions, 2010 brought out in January 2010, made effective from March 01, 2010

The Repo in Corporate debt securities (Reserve Bank) Directions, 2010 were released on January 8, 2010 and were brought into effect from March 1, 2010. These direction define the **Corporate Debt Security** as “*non-convertible debt securities, which create or acknowledge indebtedness, including debentures, bonds and such other securities of a company or a body corporate constituted by or under a Central or State Act, whether constituting a charge on the assets of the company or body corporate or not, but does not include debt securities issued by Government or such other persons as may be specified by the Reserve Bank, security receipts and securitized debt instruments*”. The regulations also defined the terms security receipts and securitised debt instrument as:

‘Security Receipts’ means a security as defined in clause (zg) of section 2 of the Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002 (54 of 2002) c. **‘Securitized debt instrument’** means securities of the nature referred to in sub-clause (ie) of clause (h) of section 2 of the Securities Contracts (Regulation) Act, 1956(42 of 1956).

These directions also state the eligible securities for repo in corporate debt securities, eligible participants, tenor, trading, reporting and settlement of trades, prohibition of sale of repoed security, haircut limits, valuation, capital adequacy, disclosure, computation of CRR/SLR and borrowing limit and documentation related information. The details of these have been discussed under the market design of corporate bonds.

IV. India Infrastructural Finance Company Limited permitted to undertake ready forward contracts in corporate debt securities

Vide RBI circular dated April 16, 2010, the India Infrastructural Finance Company Limited (IIFCL) was permitted to undertake ready forward contracts in corporate debt securities. The entities eligible to enter into ready forward contracts in corporate debt securities is mentioned in the Repo in Corporate Debt Securities (Reserve Bank) Directions, 2010. These regulations were released in January 2010 and were made effective in March 2010. According to these regulations



following entities were allowed to enter into ready forward contracts in corporate debt securities:

- Scheduled commercial banks excluding RRBs and LABs,
- primary dealers authorised by RBI,
- NBFCs registered with RBI (other than government companies as defined in section 617 of the Companies Act, 1956),
- All India Financial Institutions—Exim Bank, NABARD, NHB and SIDBI and other regulated entities such as any mutual fund registered with SEBI, any housing finance company registered with National Housing Bank and any insurance company registered with the Insurance Regulatory and Development Authority is governed

V. Reporting of repo trades in corporate bonds

Repo in Corporate Debt Securities (Reserve Bank) Directions, 2010 issued by RBI on January 08, 2010 had indicated that the participants eligible to undertake repo transaction in corporate debt securities are required to report the repo trades within 15 minutes of the trade on the FIMMDA Reporting Platform and also report the trade to the clearing corporations of the exchanges, i.e., National Securities Clearing Corporation of India Ltd. (NSCCL) or Indian Clearing Corporation Ltd. (ICCL) for settlement.

However, on March 23, 2010, it was clarified by the RBI that the market participants are required to report their repo trades in corporate bonds only to the clearing corporations, i.e., NSCCL and ICCL for settlement until the launch of the Fixed Income Money Market and Derivatives Association (FIMMDA) Reporting Platform which would be notified once the system is ready.

Accordingly after FIMMDA platform was ready to accept repo trades in corporate bonds, the RBI notified all the market participants on July 16, 2010, that they are required to report their repo trades in corporate bonds within 15 minutes of the trade on the FIMMDA platform from August 2, 2010.

VI. RBI places the draft report of the Internal Group on Introduction of Credit Default Swaps (CDS) for Corporate Bonds

On 4th August 2010, the Reserve Bank of India came out with a draft report on introduction of CDS for corporate bonds for public comments (See Box 5-1) for details.

VII. Clarification for NBFCs participating in Ready Forward Contract in Corporate Debt securities

On August 11, 2010 it was notified by RBI that the NBFCs registered with RBI (other than Govt companies as defined in Section 617 of the Companies Act, 1956) are eligible to participate in repo transactions in corporate debt securities. Revised guidelines by RBI's IDMD department on uniform accounting for repo / reverse repo transactions were issued on March 23, 2010. It was clarified that the NBFCs should have asset size of ₹ 100 crore and above (i.e. NBFCs-ND-SI) and the risk weights for credit risk for assets that are the collateral for such transactions as well as risk weights for the counterparty credit risk shall be as applicable to the issuer / counterparty in the NBFC (non-deposit accepting or holding) Prudential Norms Directions, 2007 as amended from time to time.

VIII. Changes in settlement period for repo trades in corporate debt securities and changes in minimum haircut applicable on market value of corporate debt securities

The Second Quarter Review of the Monetary Policy 2010-11 announced that the repo trades in corporate debt securities are permitted to be settled on T+0 basis in addition to the existing T+1 and T+2 basis under DvP I (gross basis) framework. The minimum haircut, applicable on the market value of the corporate debt securities prevailing on the rate of trade of 1st leg, which was earlier stipulated as 25 per cent, was revised as under:

Rating	AAA	AA+	AA
Minimum haircut	10%	12%	15%

IX. Draft Listing Agreement for Securitized Debt Instruments

Securities and Exchange Board of India (SEBI) had notified the Regulations for Public Offer and Listing of Securitized Debt Instruments on May 26, 2008. The Regulations, inter alia, specified initial disclosure requirements for offer documents for public issues of securitized debt instruments and privately placed securitized debt instruments that are proposed to be listed on stock exchanges. Further to the initiative, in order to enable listing of such instruments on stock exchanges, SEBI has prepared a draft Listing Agreement for Securitized Debt Instruments containing continuous disclosure requirements.

Other than the above cited policy developments, developments relating to Review of Limits for Foreign Institutional Investors' (FIIs) investment in Government Securities and corporate debt have been mentioned in Chapter 7 of FIIs.

Box: 5-1 CREDIT DEFAULT SWAPS FOR CORPORATE BONDS

Introduction of credit derivatives in India was actively examined in the past to provide the participants tools to manage credit risk. Draft guidelines on introduction of CDS were first issued in 2003 and then in 2007. However, taking into account the status of risk management practices then prevailing in the banking system and also the experiences relating to the financial crisis, the issuance of final guidelines was deferred.

The matter was since reviewed and the Second Quarter Review of Monetary Policy of 2009-10 proposed introduction of plain vanilla OTC single-name CDS for corporate bonds for resident entities subject to appropriate safeguards. It was proposed that to begin with, all CDS trades will be required to be reported to a centralised trade reporting platform and in due course they will be brought on to a central clearing platform.

An Internal Group comprising officials from various departments of the Reserve Bank was set up to finalise the operational framework for introduction of CDS in India. The Group has noted that the CDS market should be developed in a calibrated and orderly fashion with focus on real sector linkages and emphasis on creation of robust risk management architecture to deal with various risks as have been evident in the recent financial crisis.

The Internal Group, in consultation with market participants and after taking into account international experience in the working of CDS, has finalised the operational framework for introduction of CDS in India.

The recommendations of the Internal Group:

- The CDS shall be permitted only on corporate bonds as reference obligations and the reference entities shall be single legal resident entities.
- While the reference entities are required to be rated, no minimum rating is stipulated. However, keeping in view the need for development of the infrastructure sector, CDS shall be permitted to be written on corporate bonds issued by Special Purpose Vehicle (SPV) of rated infrastructure companies.
- The permitted participants have been categorised into :
 - o **Market Makers:** Participants permitted to undertake both protection buying and protection selling, such as, commercial banks, non-banking financial companies, primary dealers, insurance companies and mutual funds, complying with the eligibility criteria and subject to the approval of their respective regulators;
 - o **Users:** Participants permitted only to hedge their underlying exposures, such as, commercial banks, primary dealers, non-banking financial companies, mutual funds, insurance companies, housing finance companies, provident funds and listed corporates.
- Users cannot purchase CDS without having the underlying exposure and the protection can be bought only to the extent (both in terms of quantum and tenor) of such underlying risk.
- For users, physical settlement is mandatory. Market-makers can opt for any of the three settlement methods (physical, cash or auction settlement), provided the CDS documentation envisages such settlement.
- As CDS markets are exposed to various risks, such as, sudden increases in credit spreads resulting in mark-to-market losses, high incidence of credit events, jump-to-default risk, basis risk, counterparty risks, etc., which are difficult to anticipate or measure accurately, market participants need to take these risks into account and build robust and appropriate risk management system to manage such risks.
- The protection seller shall treat its exposure to the reference entity (on the protection sold) as its credit exposure and aggregate the same with other exposures to the reference entity for the purposes of determining single / group exposure limits. The protection buyer shall replace its original exposure to reference entity with that of the protection seller.



- Standardisation of CDS contract has been proposed in terms of coupon payment dates/ maturity dates and coupons.
- Fixed Income Money Markets and Derivatives Association of India (FIMMDA) in consultation with market participants and market bodies shall coordinate in the matters relating to documentation, disclosure of daily CDS curve for valuation and setting up of determination committees, etc.
- A centralised CDS repository with reporting platform on the lines of the DTCC's Trade Information Warehouse (TIW) would be set up for capturing transactions in CDS and it may be made mandatory for all CDS market-makers to report their CDS trades on the reporting platform within 30 minutes from the deal time.
- While a gradual approach may be adopted for setting up a Central Counter Party (CCP) for guaranteed settlement of CDS transactions, to begin with, a system of non-guaranteed settlement may be set up.

Source: RBI

Market Design of Government Securities

Government Security	A Government security is a tradable instrument issued by the Central Government or the State Governments. It acknowledges the Government's debt obligation. Such securities are short term (usually called treasury bills, with original maturities of less than one year) or long term (usually called Government bonds or dated securities with original maturity of one year or more).
Types of Securities	<p>Treasury Bills (T-bills): Treasury bills are money market instruments, short term debt instruments issued by the Government of India and are issued in three tenors, such as 91 days, 182 days and 364 days. T-bills are zero coupon securities and pay no interest. They are issued at a discount and redeemed at the face value at maturity.</p> <p>Cash Management Bills (CMBs):² The Cash management bills have the generic character of T-bills but are issued for maturities less than 91 days. Like T-bills, they are also issued at a discount and redeemed at face value at maturity. The tenure, notified amount and date of issue of the CMBs depends upon the temporary cash requirement of the Government. The announcement of their auction is made by Reserve Bank of India through a Press Release which would be issued one day prior to the date of auction. The settlement of the auction is on T + 1 basis.</p> <p>Dated Government Securities: Dated Government securities are long term securities and carry a fixed or floating coupon (interest rate) which is paid on the face value, payable at fixed time periods (usually half-yearly). The tenor of dated securities can be up to 30 years.</p> <p>State Development Loans (SDL): State Governments also raise loans from the market. SDLs are dated securities issued through an auction similar to the auctions conducted for dated securities issued by the Central government. Interest is serviced at half yearly intervals and the principal is repaid on the maturity date. Like dated securities issued by the Central Government, SDLs issued by the State Governments qualify for SLR. They are also eligible as collaterals for borrowing through market repo as well as borrowing by eligible entities from the RBI under the Liquidity Adjustment Facility (LAF).</p>
Types of Dated Government Securities	<p>Fixed Rate Bonds: These are bonds on which the coupon rate is fixed for the entire life of the bond. Most Government bonds are issued as fixed rate bonds.</p> <p>Floating Rate Bonds: Floating Rate Bonds are securities which do not have a fixed coupon rate. The coupon is re-set at pre-announced intervals (say, every 6 months or 1 year) by adding a spread over a base rate. In the case of most floating rate bonds issued by the Government of India so far, the base rate is the weighted average cut-off yield of the last three 364-day Treasury Bill auctions preceding the coupon re-set date and the spread is decided through the auction. Floating Rate Bonds were first issued in September 1995 in India.</p> <p>Zero Coupon Bonds – Zero coupon bonds are bonds with no coupon payments. Like Treasury Bills, they are issued at a discount to the face value. The Government of India issued such securities in the nineties, it has not issued zero coupon bond after that.</p>

² Government of India, in consultation with the Reserve Bank of India decided to issue a new short-term instrument, known as Cash Management Bills (CMBs), to meet the temporary mismatches in the cash flow of the Government. (Press Release of RBI dated August 10, 2009)

Capital Indexed Bonds – These are bonds, the principal of which is linked to an accepted index of inflation with a view to protecting the holder from inflation. A capital indexed bond, with the principal hedged against inflation, was issued in December 1997. These bonds matured in 2002. The government is currently working on a fresh issuance of Inflation Indexed Bonds wherein payment of both, the coupon and the principal on the bonds, will be linked to an Inflation Index (Wholesale Price Index). In the proposed structure, the principal will be indexed and the coupon will be calculated on the indexed principal. In order to provide the holders protection against actual inflation, the final WPI will be used for indexation.

Bonds with Call/ Put Options – Bonds can also be issued with features of optionality wherein the issuer can have the option to buy-back (call option) or the investor can have the option to sell the bond (put option) to the issuer during the currency of the bond.

The optionality on the bond could be exercised after completion of 5 years tenure from the date of issuance on any coupon date falling thereafter. The Government has the right to buyback the bond (call option) at par value (equal to the face value) while the investor has the right to sell the bond (put option) to the Government at par value at the time of any of the half-yearly coupon dates starting from July 18, 2007.

Special Securities: In addition to Treasury Bills and dated securities issued by the Government of India under the market borrowing programme, the Government of India also issues, from time to time, special securities to entities like Oil Marketing Companies, Fertilizer Companies, the Food Corporation of India, etc. as compensation to these companies in lieu of cash subsidies. These securities are usually long dated securities carrying coupon with a spread of about 20-25 basis points over the yield of the dated securities of comparable maturity. These securities are, however, not eligible SLR securities but are eligible as collateral for market repo transactions. The beneficiary oil marketing companies may divest these securities in the secondary market to banks, insurance companies / Primary Dealers, etc., for raising cash.

Separate Trading of Registered Interest and Principal of Securities (STRIPS): Steps are being taken to introduce new types of instruments like STRIPS (Separate Trading of Registered Interest and Principal of Securities). Accordingly, guidelines for stripping and reconstitution of Government securities have been issued. STRIPS are instruments wherein each cash flow of the fixed coupon security is converted into a separate tradable Zero Coupon Bond and traded.³ These cash flows are traded separately as independent securities in the secondary market. STRIPS in Government securities will ensure availability of sovereign zero coupon bonds, which will facilitate the development of a market determined zero coupon yield curve (ZCYC). STRIPS will also provide institutional investors with an additional instrument for their asset- liability management. Further, as STRIPS have zero reinvestment risk, being zero coupon bonds, they can be attractive to retail/ non-institutional investors. The process of stripping/reconstitution of Government securities is carried out at RBI, Public Debt Office (PDO) in the PDO-NDS (Negotiated Dealing System) at the option of the holder at any time from the date of issuance of a Government security till its maturity. All dated Government securities, other than floating rate bonds, having coupon Payment dates on 2nd January and 2nd July, irrespective of the year of maturity are eligible for Stripping/Reconstitution. Eligible Government securities held in the Subsidiary General Ledger (SGL)/Constituent Subsidiary General Ledger (CSGL) accounts maintained at the PDO, RBI, Mumbai. Physical securities are not be eligible for stripping/reconstitution. Minimum amount of securities that needs to be submitted for stripping/reconstitution will be ₹ 1 crore (Face Value) and multiples thereof.

³ For example, when ₹ 100 of the 8.24%GS2018 is stripped, each cash flow of coupon (₹ 4.12 each half year) will become coupon STRIP and the principal payment (₹ 100 at maturity) will become a principal STRIP.



Issuers of Securities	In India, the Central Government issues both, treasury bills and bonds or dated securities while the State Governments issue only bonds or dated securities, which are called the State Development Loans (SDLs). Government securities carry practically no risk of default and, hence, are called risk-free gilt-edged instruments. Government of India also issues savings instruments (Savings Bonds, National Saving Certificates (NSCs), etc.) or special securities (oil bonds, Food Corporation of India bonds, fertilizer bonds, power bonds, etc.).
Issuance of Government Securities	<p>Government securities are issued through auctions conducted by the RBI. Auctions are conducted on the electronic platform called the NDS – Auction platform. Commercial banks, scheduled urban co-operative banks, Primary Dealers, insurance companies and provident funds, who maintain funds account (current account) and securities accounts (SGL account) with RBI, are members of this electronic platform. All members of PDO-NDS can place their bids in the auction through this electronic platform. All non-NDS members including non-scheduled urban co-operative banks can participate in the primary auction through scheduled commercial banks or Primary Dealers. For this purpose, the urban co-operative banks need to open a securities account with a bank / Primary Dealer – such an account is called a Gilt Account. A Gilt Account is a dematerialized account maintained by a scheduled commercial bank or Primary Dealer for its constituent (e.g., a non-scheduled urban co-operative bank).</p> <p>The RBI, in consultation with the Government of India, issues an indicative half-yearly auction calendar which contains information about the amount of borrowing, the tenor of security and the likely period during which auctions will be held. A Notification and a Press Communique giving exact particulars of the securities, viz., name, amount, type of issue and procedure of auction are issued by the Government of India about a week prior to the actual date of auction. RBI places the notification and a Press Release on its website (www.rbi.org.in) and also issues an advertisement in leading English and Hindi newspapers. Information about auctions is also available with the select branches of public and private sector banks and the Primary Dealers.</p>
Different types of auctions used for issue of securities	<p>Prior to introduction of auctions as the method of issuance, the interest rates were administratively fixed by the Government. With the introduction of auctions, the rate of interest (coupon rate) gets fixed through a market based price discovery process.</p> <p>An auction may either be yield based or price based.</p> <p>Yield Based Auction: A yield based auction is generally conducted when a new Government security is issued. Investors bid in yield terms up to two decimal places (for example, 8.19 per cent, 8.20 per cent, etc.). Bids are arranged in ascending order and the cut-off yield is arrived at the yield corresponding to the notified amount of the auction. The cut-off yield is taken as the coupon rate for the security. Successful bidders are those who have bid at or below the cut-off yield. Bids which are higher than the cut-off yield are rejected.</p> <p>Price Based Auction: A price based auction is conducted when Government of India re-issues securities issued earlier. Bidders quote in terms of price per ₹100 of face value of the security (e.g., ₹102.00, ₹101.00, ₹100.00, ₹99.00, etc., per ₹100/-). Bids are arranged in descending order and the successful bidders are those who have bid at or above the cut-off price. Bids which are below the cut-off price are rejected.</p> <p>Multiple Price based: In a Uniform Price auction, all the successful bidders are required to pay for the allotted quantity of securities at the same rate, i.e., at the auction cut-off rate, irrespective of the rate quoted by them. On the other hand, in a Multiple Price auction, the successful bidders are required to pay for the allotted quantity of securities at the respective price / yield at which they have bid.</p>

Holding of Government Securities	<p>The Public Debt Office (PDO) of the Reserve Bank of India, Mumbai acts as the registry and central depository for the Government securities. Government securities may be held by investors either as physical stock or in dematerialized form. From May 20, 2002, it is mandatory for all the RBI regulated entities to hold and transact in Government securities only in dematerialized (SGL) form. Accordingly, UCBs are required to hold all Government securities in demat form.</p> <ul style="list-style-type: none"> • Physical form: Government securities may be held in the form of stock certificates. A stock certificate is registered in the books of PDO. Ownership in stock certificates can not be transferred by way of endorsement and delivery. They are transferred by executing a transfer form as the ownership and transfer details are recorded in the books of PDO. The transfer of a stock certificate is final and valid only when the same is registered in the books of PDO.
	<ul style="list-style-type: none"> • Demat form: Holding government securities in the dematerialized or scripless form is the safest and the most convenient alternative as it eliminates the problems relating to custody, viz., loss of security. Besides, transfers and servicing are electronic and hassle free. The holders can maintain their securities in dematerialised form in either of the two ways: <ul style="list-style-type: none"> i. SGL Account: Reserve Bank of India offers Subsidiary General Ledger Account (SGL) facility to select entities who can maintain their securities in SGL accounts maintained with the Public Debt Offices of the Reserve Bank of India. ii. Gilt Account: As the eligibility to open and maintain an SGL account with the RBI is restricted, an investor has the option of opening a Gilt Account with a bank or a Primary Dealer which is eligible to open a Constituents' Subsidiary General Ledger Account (CSGL) with the RBI. Under this arrangement, the bank or the Primary Dealer, as a custodian of the Gilt Account holders, would maintain the holdings of its constituents in a CSGL account (which is also known as SGL II account) with the RBI. The servicing of securities held in the Gilt Accounts is done electronically, facilitating hassle free trading and maintenance of the securities. Receipt of maturity proceeds and periodic interest is also faster as the proceeds are credited to the current account of the custodian bank / PD with the RBI and the custodian (CSGL account holder) immediately passes on the credit to the Gilt Account Holders (GAH). <p>Investors also have the option of holding Government securities in a dematerialized account with a depository (NSDL / CDSL, etc.). This facilitates trading of Government securities on the stock exchanges.</p>
Listing of G-secs on Stock Exchanges	<p>All Government securities and Treasury bills are deemed to be listed automatically as and when they are issued.</p>
Trading in Government securities	<p>There is an active secondary market in government securities. The securities can be bought/sold in the secondary market either (i) Over the Counter (OTC) or (ii) through the Negotiated Dealing System (NDS) or (iii) the Negotiated Dealing System-Order Matching (NDS-OM).</p> <p>(i) Over the Counter (OTC)/ Telephone Market</p> <p>In this market, a participant, who wants to buy or sell a government security, may contact a bank/ Primary Dealer / financial institution either directly or through a broker registered with SEBI and negotiate for a certain amount of a particular security at a certain price. Such negotiations are usually done on telephone and a deal may be struck if both counterparties agree on the amount and rate. In the case of a buyer, like an urban co-operative bank wishing to buy a security, the bank's dealer (who is authorized by the bank to undertake transactions in Government Securities) may get in touch with other market participants over telephone and obtain quotes.</p> <p>All trades undertaken in OTC market are reported on the secondary market module of the NDS.</p>



(ii) Negotiated Dealing System

The Negotiated Dealing System (NDS) for electronic dealing and reporting of transactions in government securities was introduced in February 2002. It facilitates the members to submit electronically, bids or applications for primary issuance of Government Securities when auctions are conducted. NDS also provides an interface to the Securities Settlement System (SSS) of the Public Debt Office, RBI, Mumbai thereby facilitating settlement of transactions in Government Securities (both outright and repos) conducted in the secondary market. Membership to the NDS is restricted to members holding SGL and/or Current Account with the RBI, Mumbai.

(iii) NDS OM

In August 2005, RBI introduced an anonymous screen based order matching module on NDS, called NDS-OM. This is an order driven electronic system, where the participants can trade anonymously by placing their orders on the system or accepting the orders already placed by other participants. NDS-OM is operated by the Clearing Corporation of India Ltd. (CCIL) on behalf of the RBI. Direct access to the NDS-OM system is currently available only to select financial institutions like Commercial Banks, Primary Dealers, Insurance Companies, Mutual Funds, etc. Other participants can access this system through their custodians, i.e., with whom they maintain Gilt Accounts. The custodians place the orders on behalf of their customers like the urban co-operative banks. The advantages of NDS-OM are price transparency and better price discovery.

Gilt Account holders have been given indirect access to NDS through custodian institutions. A member (who has the direct access) can report on the NDS the transaction of a Gilt Account holder in government securities. Similarly, Gilt Account holders have also been given indirect access to NDS-OM through the custodians. However, currently two gilt account holders of the same custodian are not permitted to undertake repo transactions between themselves.

Stock Exchanges

Facilities are also available for trading in Government securities on stock exchanges (NSE, BSE) which cater to the needs of retail investors. NSE's Wholesale Debt Market (WDM) segment offers a fully automated screen based trading platform through the NEAT (National Exchange for Automated Trading) system. The WDM segment, as the name suggests, permits only high value transactions in debt securities.

The trades on the WDM segment can be executed in the Continuous or Negotiated market. In the continuous market, orders entered by the trading members are matched by the trading system. For each order entering the trading system, the system scans for a probable match in the order books. On finding a match, a trade takes place. In case, the order does not find a suitable counter order in the order books, it is added to the order books and is called a passive order. This could later match with any future order entering the order book and result into a trade. This future order, which results in matching of an existing order, is called the active order. In the negotiated market, deals are negotiated outside the exchange between the two counter parties and are reported on the trading system for approval.

Brokerage Rates

The Exchange has specified the maximum rates of brokerage chargeable by trading members in relation to trades done in securities available on the WDM segment of the Exchange.

	Govt. Of India Securities and T-Bills	
	Order Value upto ₹10 million	25 ps. per ₹100
	More than 10 million upto 50 million	15 ps. per ₹100
	More than 50 million upto 100 million	10 ps per ₹100
	More than 100 million	5 ps per ₹100
	State Govt. Securities & Institutional Bonds	
	Order Value upto ₹2.5 million	50 ps. per ₹100
	More than 2.5 million upto 5 million	30 ps. per ₹100
	More than 5 million upto 10 million	25 ps per ₹100
	More than 10 million upto 50 million	15 ps per ₹100
	More than 50 million upto 100 million	10 ps per ₹100
	More than 100 million	5 ps per ₹100
	PSU & Floating Rate Bonds	
	Order Value upto ₹10 million	50 ps. per ₹100
	More than 10 million upto 50 million	25 ps. per ₹100
	More than 50 million upto 100 million	15 ps per ₹100
	More than 100 million	10 ps per ₹100
	Commercial paper and Debentures	1% of the order value
	The NSE has waived the transaction charges for the WDM segment of the Exchange for the period April 2010 to March 2011.	
Reporting of Government Securities	<p>Transactions undertaken between market participants in the OTC/telephone market are expected to be reported on the NDS platform within 15 minutes after the deal is put through over telephone. All OTC trades are required to be mandatorily reported on the secondary market module of the NDS for settlement.</p> <p>Reporting on NDS is a four stage process wherein the seller of the security has to initiate the reporting followed by confirmation by the buyer. This is further followed by issue of confirmation by the seller's back office on the system and reporting is complete with the last stage wherein the buyer's back office confirms the deal. The system architecture incorporates maker-checker model to preempt individual mistakes as well as misdemeanor.</p> <p>Reporting on behalf of entities maintaining gilt accounts with the custodians is done by the respective custodians in the same manner as they do in case of their own trades i.e., proprietary trades. The securities leg of these trades settle in the CSGL account of the custodian. Once the reporting is complete, the NDS system accepts the trade. Information on all such successfully reported trades flow to the clearing house i.e., the CCIL. In the case of NDS-OM, participants place orders (price and quantity) on the system. Participants can modify / cancel their orders. Order could be a bid for purchase or offer for sale of securities. The system, in turn will match the orders based on price and time priority. That is, it matches bids and offers of the same prices with time priority. The NDS-OM system has separate screen for the Central Government, State Government and Treasury bill trading. In addition, there is a screen for odd lot trading for facilitating trading by small participants in smaller lots of less than ₹ 5 crore (i.e., the standard market lot). The NDS-OM platform is an anonymous platform wherein the participants will not know the counterparty to the trade. Once an order is matched, the deal ticket gets generated automatically and the trade details flow to the CCIL. Due to anonymity offered by the system, the pricing is not influenced by the participants' size and standing.</p>	



Major players in the Government Securities market	<p>Major players in the Government securities market include commercial banks and primary dealers besides institutional investors like insurance companies. Primary Dealers play an important role as market makers in Government securities market. Other participants include co-operative banks, regional rural banks, mutual funds, provident and pension funds. Foreign Institutional Investors (FIIs) are allowed to participate in the Government securities market within the quantitative limits prescribed from time to time. Corporates also buy/ sell the government securities to manage their overall portfolio risk.</p>
Settlement of Government Securities	<p>Primary Market</p> <p>Once the allotment process in the primary auction is finalized, the successful participants are advised of the consideration amounts that they need to pay to the Government on settlement day. The settlement cycle for dated security auction is T + 1, whereas for that of Treasury bill auction is T + 2. On the settlement date, the fund accounts of the participants are debited by their respective consideration amounts and their securities accounts (SGL accounts) are credited with the amount of securities that they were allotted.</p> <p>Secondary Market</p> <p>The transactions relating to Government securities are settled through the member's securities / current accounts maintained with the RBI, with delivery of securities and payment of funds being done on a net basis. The Clearing Corporation of India Limited (CCIL) guarantees settlement of trades on the settlement date by becoming a central counter-party to every trade through the process of novation, i.e., it becomes seller to the buyer and buyer to the seller. All outright secondary market transactions in Government Securities are settled on T + 1 basis. However, in case of repo transactions in Government securities, the market participants will have the choice of settling the first leg on either T + 0 basis or T + 1 basis as per their requirement.</p> <p><i>'Shut period' means the period for which the securities can not be delivered. During the period under shut, no settlements/ delivery of the security which is under shut will be allowed. The main purpose of having a shut period is to facilitate servicing of the securities viz., finalizing the payment of coupon and redemption proceeds and to avoid any change in ownership of securities during this process. Currently the shut period for the securities held in SGL accounts is one day.</i></p> <p>Delivery versus Payment (DvP) is the mode of settlement of securities wherein the transfer of securities and funds happen simultaneously. This ensures that unless the funds are paid, the securities are not delivered and vice versa. DvP settlement eliminates the settlement risk in transactions. There are three types of DvP settlements, viz., DvP I, II and III which are explained below:</p> <ol style="list-style-type: none"> i. DvP I – The securities and funds legs of the transactions are settled on a gross basis, that is, the settlements occur transaction by transaction without netting the payables and receivables of the participant. ii. DvP II – In this method, the securities are settled on gross basis whereas the funds are settled on a net basis, that is, the funds payable and receivable of all transactions of a party are netted to arrive at the final payable or receivable position which is settled. iii. DvP III – In this method, both the securities and the funds legs are settled on a net basis and only the final net position of all transactions undertaken by a participant is settled. <p>Liquidity requirement in a gross mode is higher than that of a net mode since the payables and receivables are set off against each other in the net mode.</p> <p>Clearing Corporation of India Limited (CCIL)</p> <p>The CCIL is the clearing agency for Government securities. It acts as a Central Counter Party (CCP) for all transactions in Government securities by interposing itself between two counterparties.</p>

In effect, during settlement, the CCP becomes the seller to the buyer and buyer to the seller of the actual transaction. All outright trades undertaken in the OTC market and on the NDS-OM platform are cleared through the CCIL. Once CCIL receives the trade information, it works out participant-wise net obligations on both the securities and the funds leg. The payable / receivable position of the constituents (gilt account holders) is reflected against their respective custodians. CCIL forwards the settlement file containing net position of participants to the RBI where settlement takes place by simultaneous transfer of funds and securities under the 'Delivery versus Payment' system. CCIL also guarantees settlement of all trades in Government securities. That means, during the settlement process, if any participant fails to provide funds/ securities, CCIL will make the same available from its own means. For this purpose, CCIL collects margins from all participants and maintains 'Settlement Guarantee Fund'.

Market Design for Corporate Bond Market

Issuers of Corporate Bonds	Public sector units including public financial institutions and bonds issued by private corporate sector.
General Conditions for issuance of corporate bonds	<p>No issuer can make any public issue of debt securities if as on the date of filing of draft offer document and final offer document, the issuer or the person in control of the issuer, or its promoter, has been restrained or prohibited or debarred by SEBI from accessing the securities market or dealing in securities and such direction or order is in force.</p> <p>No issuer can make a public issue of debt securities unless following conditions are satisfied⁴:</p> <ul style="list-style-type: none"> (a) The issuer has to apply to one or more recognized stock exchanges for listing of such securities. If the application is made to more than one recognized stock exchanges, the issuer should choose one of them as the designated stock exchange (having nationwide trading terminals). However, for any subsequent public issue, the issuer may choose a different stock exchange as a designated stock exchange subject to the requirements of SEBI (Issue and Listing of Debt Securities) regulations, 2008. (b) The issuer has to obtain in-principle approval for listing of its debt securities on the recognized stock exchanges where the application for listing has been made; (c) credit rating has to be obtained from at least one credit rating agency registered with SEBI and has to be disclosed in the offer document⁵. (d) it has entered into an arrangement with a depository registered with SEBI for dematerialization of the debt securities that are proposed to be issued to the public, in accordance with the Depositories Act, 1996 and other relevant regulations. (e) The issuer is required to appoint one or more merchant bankers registered with the Board at least one of whom has to be a lead merchant banker. (f) The issuer is required to appoint one or more debenture trustees in accordance with the provisions of Section 117B of the Companies Act, 1956 (1 of 1956) and Securities and Exchange Board of India (Debenture Trustees) Regulations, 1993. (g) The issuer is not allowed to issue debt securities for providing loan to or acquisition of shares of any person who is part of the same group or who is under the same management.
Price Discovery through Book Building	The issuer may determine the price of debt securities in consultation with the lead merchant banker and the issue may be at fixed price or the price may be determined through book building process in accordance with the procedure as may be specified by SEBI.

⁴ as on the date of filing of draft offer document and final offer document.

⁵ If the credit rating has been obtained from more than one credit rating agencies, all the credit ratings, including the unaccepted ratings, are required to be disclosed in the offer document.



Minimum Subscription	The issuer can decide the amount of minimum subscription which it seeks to raise by issue of debt securities and disclose the same in the offer document. In the event of non receipt of minimum subscription all application moneys received in the public issue has to be refunded to the applicants.
Debenture Redemption Reserve	For the redemption of the debt securities issued by a company, the issuer has to create debenture redemption reserve in accordance with the provisions of the Companies Act, 1956 and circulars issued by Central Government in this regard. Where the issuer has defaulted in payment of interest on debt securities or redemption thereof or in creation of security as per the terms of the issue of debt securities, any distribution of dividend would require approval of the debenture trustees.
Listing of Debt Securities	<p>Mandatory listing</p> <p>An issuer desirous of making an offer of debt securities to the public has to apply for listing to one or more recognized stock exchanges in terms of the Companies Act, 1956(1 of 1956)⁶. The issuer has to comply with conditions of listing of debt securities as specified in the Listing Agreement with the stock exchange where such debt securities are sought to be listed.</p> <p>Conditions for listing of debt securities issued on private placement basis</p> <p>An issuer may list its debt securities issued on private placement basis on a recognized stock exchange subject to the following conditions:</p> <ul style="list-style-type: none"> (a) the issuer has issued such debt securities in compliance with the provisions of the Companies Act, 1956, rules prescribed thereunder and other applicable laws. (b) credit rating has been obtained in respect of such debt securities from at least one credit rating agency registered with SEBI. (c) the debt securities proposed to be listed are in dematerialized form. (d) the prescribed disclosures have to be made. <p>For continuous listing also various conditions have to be abided by.</p> <p>The listing requirements for securities on the WDM segment of NSE are presented in table 5-2.</p>
Trading of Debt securities	<ul style="list-style-type: none"> (1) The debt securities issued to the public or on a private placement basis, which are listed in recognized stock exchanges, are traded and cleared and settled in recognized stock exchanges subject to conditions specified by the SEBI. (2) In case of trades of debt securities which have been made over the counter, such trades are required to be reported on a recognized stock exchange having a nation wide trading terminal or such other platform as may be specified by the SEBI.
Clearing and Settlement	<p>The corporate bonds are cleared and settled by the clearing corporations of stock exchanges i.e. ICCL and NSCCL.</p> <p>All trades in corporate bonds available in demat form which are reported on any of the following platforms provided viz., FIMMDA, NSE-WDM and NSE web site are eligible for settlement through NSCCL. In order to facilitate settlement of corporate bond trades through NSCCL, both buy and sell participants shall be required to explicitly express their intention to settle the corporate bond trades through NSCCL.</p> <p>The trades will be settled at participant level on DVP I basis i.e., on gross basis for securities and funds. The settlements shall be carried out through the bank and DP accounts specified by the participants.</p> <p>On the settlement date, during the pay-in, participants are required to transfer the securities to the Depository account specified by NSCCL and transfer the funds to the bank account specified by NSCCL within the stipulated cut-off time.</p> <p>On successful completion of pay-in of both securities and funds, the securities / funds shall be transferred by NSCCL to the depository / bank account of the counter-party.</p>

⁶ of sub-section (1) of section 73

Regulatory Framework	<p>SEBI (Issue and Listing of Debt Securities) regulations, 2008. (private placement) for above one year. SEBI is responsible for primary and secondary debt market while RBI is responsible for the market for repo/reverse repo transactions in corporate debt.</p> <p>Issuance of Non-Convertible Debentures (Reserve Bank) Directions, 2010 (for issuance of NCDs of original or initial maturity up to one year).</p> <p>According to the Repo in Corporate Debt Securities (Reserve Bank) Directions 2010, dated 8 January 2010 issued by the RBI, NBFCs registered with the RBI (other than Government companies as defined in Section 617 of the Companies Act 1956) are eligible for participation in repo transactions in corporate debt securities. NBFCs participating in such repo transactions were advised to comply with the Directions and accounting guidelines issued by RBI.</p>
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Source: SEBI (Issue and Listing of Debt Securities) Regulations, 2008

Table 5-2: Eligibility Criteria for Securities on WDM Segment

Issuer	Eligibility Criteria for listing	
	Public Issue /Private Placement	
Corporates (Public limited companies and Private limited companies)	<ul style="list-style-type: none"> • Paid-up capital of ₹10 crores; or • Market capitalisation of ₹ 25 crores (In case of unlisted companies Networth more than ₹ 25 crores) • Credit rating 	
Public Sector Undertaking, Statutory Corporation established/ constituted under Special Act of Parliament /State Legislature, Local bodies/ authorities,	<ul style="list-style-type: none"> • Credit rating 	
Mutual Funds: Units of any SEBI registered Mutual Fund/scheme : <ul style="list-style-type: none"> • Investment objective to invest predominantly in debt or • Scheme is traded in secondary market as debt instrument 	<ul style="list-style-type: none"> • Qualifies for listing under SEBI's Regulations 	
Infrastructure companies <ul style="list-style-type: none"> • Tax exemption and recognition as infrastructure company under related statutes/regulations 	<ul style="list-style-type: none"> • Qualifies for listing under the respective Acts, Rules or Regulations under which the securities are issued. • Credit rating 	
Financial Institutions u/s. 4A of Companies Act, 1956 including Industrial Development Corporations	Public Issue	Private Placement
	Qualifies for listing under the respective Acts, Rules or Regulations under which the securities are issued.	Credit rating
Banks	<ul style="list-style-type: none"> • Scheduled banks • Networth of ₹50 crores or above • Qualifies for listing under the respective Acts, Rules or Regulations under which the securities are issued. 	<ul style="list-style-type: none"> • Scheduled Banks • Networth of ₹50 crores or above • Credit rating

Source: NSE



Market Design for Securitised Debt instruments

<p>Meaning of Securitised Debt</p>	<p>Securities Contracts (Regulation) Act, 1956 was amended in the year 2007 to include any certificate or instrument (by whatever name called), issued to an investor by any issuer being a special purpose distinct entity which possesses any debt or receivable, including mortgage debt, assigned to such entity, and acknowledging beneficial interest of such investor in such debt or receivable, including mortgage debt, as the case maybe; under the definition of securities.⁷</p> <p>Securitisation involves pooling of financial assets and the issuance of securities that are re-paid from the cash flows generated by these assets.</p> <p>Common assets for securitisation include credit cards, mortgages, auto and consumer loans, student loans, corporate debt, export receivable and offshore remittances.</p>
<p>Regulatory Framework</p>	<p>The Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002</p> <p>SEBI (Public Offer and Listing of Securitised Debt Instruments) Regulations, 2008 for listing on stock exchanges</p> <p>The Securitisation Companies and Reconstruction Companies (Reserve Bank) Guidelines and Directions, 2003</p>
<p>Eligibility criteria for trustees⁸</p>	<p>According to the SEBI (Public Offer and Listing of Securitised Debt Instruments) Regulations, 2008 no person can make a public offer of securitised debt instruments or seek listing for such securitised debt instruments unless –</p> <ul style="list-style-type: none"> (a) it is constituted as a special purpose distinct entity; (b) all its trustees are registered with the SEBI under SEBI (Public Offer and Listing of Securitised Debt Instruments) Regulations, 2008 and (c) it complies with all applicable provisions of these regulations and the Act. <p>The requirement of obtaining registration is not applicable for the following persons, who may act as trustees of special purpose distinct entities, namely:-</p> <ul style="list-style-type: none"> (a) any person registered as a debenture trustee with SEBI. (b) any person registered as a securitisation company or a reconstruction company with the Reserve Bank of India under the Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002 (54 of 2002); (c) the National Housing Bank established by the National Housing Bank Act, 1987 (53 of 1987); (d) the National Bank for Agriculture and Rural Development established by the National Bank for Agriculture and Rural Development Act, 1981 (61 of 1981): <p>However, the aforesaid persons and special purpose distinct entities in respect of which they are trustees are required to comply with all other provisions of SEBI (Public Offer and Listing of Securitised Debt Instruments) Regulations, 2008. However, these regulations are not applicable for the National Housing Bank and the National Bank for Agriculture and Rural Development to the extent of inconsistency with the provisions of their respective Acts.</p>
<p>Launching of schemes</p>	<ul style="list-style-type: none"> (1) A special purpose distinct entity may raise funds by making an offer of securitised debt instruments through formulating schemes in accordance with SEBI (Public Offer and Listing of Securitised Debt Instruments) Regulations, 2008. (2) Where there are multiple schemes, the special purpose distinct entity is required to maintain separate and distinct accounts in respect of each such scheme and should not commingle asset pools or realisations of a scheme with those of other schemes.

⁷ Prior to 2008, securitised debt was incapable of being listed on stock exchanges, as it was unclear whether it was a “security” as defined in the Securities Contracts (Regulation) Act, 1956 (SCRA). This was put to rest after the government amended the SCRA to include pass-through certificates (PTCs), as the securitisation instruments are technically called. Allowing them to be listed on stock exchanges, thus became the next policy target for regulatory officials

⁸ trustee of a special purpose distinct entity

	<p>(3) A special purpose distinct entity and trustees should ensure that realisations of debts and receivables are held and correctly applied towards redemption of securitised debt instruments issued under the respective schemes or towards payment of returns on such instruments or towards other permissible expenditure of the scheme.</p> <p>(4) The terms of issue of the securitised debt instruments may provide for exercise of a clean -up call option by the special purpose distinct entity, subject to adequate disclosures.</p> <p>(5) No expenses should be charged to the scheme in excess of the allowable expenses as may be specified in the scheme and any such expenditure, if incurred, should be borne by the trustees.</p>
Mandatory Listing	A special purpose distinct entity desirous of making an offer of securitised debt instruments to the public shall make an application for listing to one or more recognized stock exchanges in terms of sub-section (2) of section 17A of the Securities Contracts (Regulation) Act, 1956 (42 of 1956)Act.
Minimum public offering for listing	<p>In respect of public offers of securitised debt instruments, the special purpose distinct entity or trustee should satisfy the recognised stock exchange⁹ that each scheme of securitised debt instruments was offered to the public for subscription through advertisements in newspapers for a period of not less than 2 days and that applications received in pursuance of the offer were allotted in accordance with these regulations and the disclosures made in the offer document.</p> <p>In case of a private placement of securitised debt instruments, the special purpose distinct entity should ensure that it has obtained credit rating from a registered credit rating agency in respect of its securitised debt instruments.</p> <p>In case of a private placement of securitised debt instruments, the special purpose distinct entity should file listing particulars with the recognised stock exchange along with the application containing such information as may be necessary for any investor in the secondary market to make an informed investment decision in respect of its securitised debt instruments.</p> <p>All credit ratings obtained including unaccepted ratings, if any, should be disclosed in the listing particulars filed with the recognised stock exchange.</p>
Continuous listing conditions	The special purpose distinct entity or trustee thereof should submit such information, including financial information relating to the schemes, to the stock exchanges and investors and comply with such other continuing obligations as may be stipulated in the listing agreement.
Trading of securitised debt instruments	The securitised debt instruments issued to the public or on a private placement basis, which are listed in recognised stock exchanges, shall be traded and such trades shall be cleared and settled in recognised stock exchanges subject to conditions specified by SEBI.

Source : SEBI (Public Offer and Listing of SDI) Regulations, 2008.

Market Outcome

Primary Market

Resource Mobilization

During 2009-10 the central government and state governments borrowed ₹ 4,924,970 million (US \$ 109,104 million) and ₹ 1,311,220 million (US \$ 29,048 million) respectively. The gross borrowings of the central and state governments taken together increased by 42.81% from ₹ 4,366,880 million (US \$ 85,709 million) during 2008-09 to ₹ 6,236,190 million (US \$ 138,152 million) during 2009-10 (Table 5-3). Their net borrowings also increased by 161.09% from ₹ 3,460,840 million (US \$ 67,926 million) during 2008-09 to ₹ 9,035,990 million (US \$ 200,177 million) during 2009-10.

⁹ to which a listing application is made



Table 5-3: Market Borrowings of Governments

Security	(Amount in ₹ mn)				(Amount in US \$ mn)	
	Gross Borrowings		Net Borrowings		Gross	Net
	2008-09	2009-10	2008-09	2009-10	2009-10	
1 Central Government	3,185,500	4,924,970	2,423,170	3,943,580	109,104	87,363
2 State Government*	1,181,380	1,311,220	1,037,660	1,148,830	29,048	25,450
Total (1 + 2)	4,366,880	6,236,190	3,460,840	9,035,990	138,152	200,177

Source: RBI Annual Report, 2009-10

*Gross and net borrowings include MSS de-sequestering.

The gross and net amounts raised through dated securities were around 65% and 74% higher in 2009-10 than those raised in the previous year. The Reserve Bank managed the enhanced borrowing programme, keeping in view the twin objectives of minimization of cost over time and balancing of maturity profiles that are consistent with low rollover risk.¹⁰

The net market borrowing of Central Government amounted to ₹ 3,943,580 million (US \$ 87,363 million) in 2009-10 as compared with net borrowings of ₹ 2,423,170 million (US \$ 47,560 million) for the year 2008-09.

The Reserve Bank continued with the policy of passive consolidation of dated securities during 2009-10. Out of 108 auctions during the year, 101 securities were reissues of existing securities and seven were new securities.¹¹

The issuance calendar for dated securities for the first half of 2010-11 (April-September) released in consultation with the Central Government was scheduled to raise ₹ 2,870,000 million.¹²

The state governments collectively raised ₹ 1,311,220 million (US \$ 29,048 million) during 2009-10 as against ₹ 1,81,380 million (US \$ 23,187 million) in the preceding fiscal year. The net borrowings of State Governments in 2009-10 amounted to ₹ 1,148,830 million (US \$ 25,450 million). (Table 5-3)

Secondary Market

Turnover

The aggregate secondary market transactions in debt securities (including government and non-government securities) increased by 36.78% to ₹ 85,780,050 million (US \$ 1,900,311 million) in 2009-10 from ₹ 62,713,470 million (US \$ 1,683,612 million) in 2008-09. Non-government securities accounted for a meager 1.68% of total turnover in debt market. NSE accounted for about 6.58% of total turnover in debt securities (i.e. in both G-sec and non-G-sec securities) during 2009-10. (Table 5-4)

Table 5-4: Turnover of Debt Securities

Securities	2008-09	2009-10	2008-09	2009-10
	(₹ mn)		(US \$ mn)	
Government Securities	62,254,360	84,337,567*	1,655,301	1,868,355
WDM Segment of NSE	2,911,124	4,207,985	82,590	93,221
Rest of SGL	59,343,816	80,129,581	1,572,710	1,775,135
Non Government Securities	459,110	1,442,484	28,312	31,956
CM Segment of NSE	1,005	5,219	102	116
WDM Segment of NSE	448,391	1,430,174	28,070	31,683
'F' Category of BSE	9,714	7,091	139	157
Total	62,713,470	85,780,050	1,683,612	1,900,311

Source: RBI, BSE and NSE.

* includes NDS-OM turnover

¹⁰ RBI Annual Report 2009-10, Chapter VII on Public Debt Management.

¹¹ RBI Annual Report 2009-10, Chapter VII on Public Debt Management.

¹² RBI annual report, the figure mentioned in the annual report is (₹ 287,000 crore)

The non-government securities are traded on the WDM and CM segments of the NSE, and on the BSE (F Category). Except WDM, the volumes are quite insignificant on other segments. The turnover in non-government securities on WDM segment of NSE was ₹ 1,430,174 million (US \$ 31,683 million) in 2009-10, higher by 218.96% than that during the preceding year. BSE reported a turnover of ₹ 7,091 million (US \$ 157 million) during 2009-10. NSE accounted for 99.51% of total turnover in non-government securities during the year. (Table 5-4)

The aggregate turnover in (central and state government dated securities and T-bills) through non-repo SGL transactions touched a level of ₹ 9,018,385 million (US \$ 199,787 million) in 2009-10 recording an increase of 35.71% from ₹ 6,645,488 million (US \$ 130,432 million) in the previous year (Table 5-5). The monthly turnover in non-repo transactions for the year 2009-10 ranged between ₹ 510,991 million (US \$ 11,320) and ₹ 931,260 million (US \$ 20,630 million). (Table 5-5)

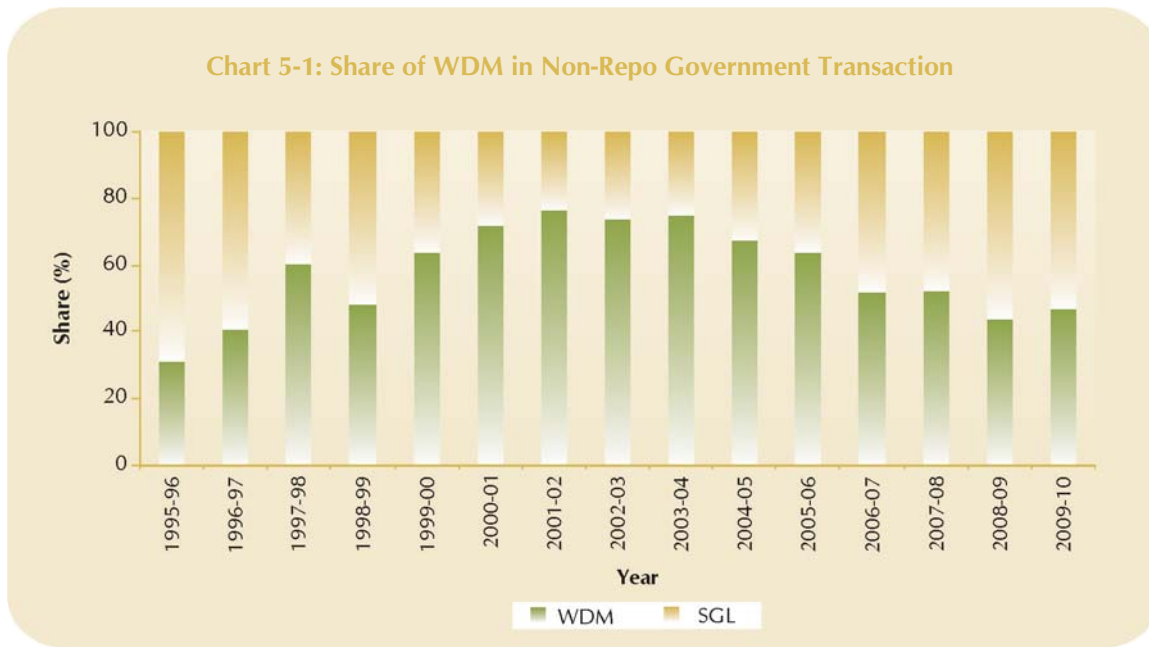
Table 5-5: Secondary Market Transactions in Government Securities

Month/ Year	SGL Non-Repo Transactions				Share in Non-Repo Turnover (%)	
	GOI Securities	Treasury Bills	Total (1+2)	Total (1+2)	GOI Securities	T-Bills
	(₹ mn)			(US \$ mn)		
	1	2	3	4	5	6
2000-01	5,120,836	600,620	5,721,456	122,673	89.50	10.50
2001-02	11,446,342	673,316	12,119,658	248,354	94.44	5.56
2002-03	13,155,989	767,845	13,923,834	293,133	94.49	5.51
2003-04	15,813,076	1,200,556	17,013,632	392,110	92.94	7.06
2004-05	9,897,351	2,711,314	12,608,665	288,198	78.50	21.50
2005-06	4,986,040	2,094,107	12,066,187	270,482	41.32	17.36
2006-07	2,747,384	1,235,603	3,982,988	91,374	68.98	31.02
2007-08	3,541,760	1,461,287	5,003,047	125,170	70.79	29.21
2008-09	5,427,749	1,217,740	6,645,488	130,432	81.68	18.32
Apr-09	611,609	203,000	814,609	18,046	75.08	24.92
May-09	567,630	191,381	759,010	16,815	74.79	25.21
Jun-09	541,885	211,564	753,449	16,691	71.92	28.08
Jul-09	622,179	199,606	821,785	18,205	75.71	24.29
Aug-09	442,021	161,941	603,962	13,380	73.19	26.81
Sep-09	667,169	215,622	882,791	19,557	75.58	24.42
Oct-09	435,424	349,806	785,230	17,395	55.45	44.55
Nov-09	699,764	231,497	931,260	20,630	75.14	24.86
Dec-09	524,617	260,039	784,656	17,383	66.86	33.14
Jan-10	534,786	247,256	782,042	17,325	68.38	31.62
Feb-10	333,872	177,119	510,991	11,320	65.34	34.66
Mar-10	323,280	265,318	588,598	13,039	54.92	45.08
2009-10	6,304,237	2,714,149	9,018,385	199,787	69.90	30.10
Apr-10	587,425	344,905	932,330	20,700	63.01	36.99
May-10	801,142	235,268	1,036,410	23,011	77.30	22.70
Jun-10	540,314	129,872	670,186	14,880	80.62	19.38
Jul-10	424,017	156,183	580,200	12,882	73.08	26.92
Aug-10	450,257	145,196	595,454	13,221	75.62	24.38
Sep-10	427,668	117,515	545,184	12,104	78.44	21.56
Apr2010-Sep2010	3,230,824	1,128,939	4,359,763	96,798	74.11	25.89

Source : NSE

*excludes NDS-OM turnover





The share of WDM segment of NSE in the total turnover of non-repo SGL transaction witnessed a y-o-y increase in 2009-10. It accounted for a share of 46.76% in 2009-10 as against 43.81% in the preceding year (Table 5-6). The share of WDM in turnover of non-repo dated securities (central and state government securities) also witnessed an increase from 43.16% in 2008-09 to 52.11% in 2009-10. (Chart 5-1) The share of WDM in turnover of non-repo T-bills increased to 45.13% in 2009-10 as compared to 34.34% in the corresponding period.

Table 5-6: Share of WDM in Transactions of Government Securities

Year	Turnover of Non-Repo Govt Securities			Turnover of Non-Repo Central & State Govt Sec.			Turnover of Non-Repo T-Bills		
	On SGL (₹ mn)	On WDM (₹ mn)	Share of WDM (%)	On SGL (₹ mn)	On WDM (₹ mn)	Share of WDM (%)	On SGL (₹ mn)	On WDM (₹ mn)	Share of WDM (%)
2000-01	5,721,456	4,124,958	72.10	5,120,836	3,893,523	62.94	600,620	231,435	38.53
2001-02	12,119,658	9,269,955	76.49	11,446,342	9,015,121	60.91	673,316	254,834	37.85
2002-03	13,923,834	10,305,497	74.01	13,155,989	9,991,507	55.42	767,845	313,990	40.89
2003-04	17,013,632	12,741,190	74.89	15,813,076	12,185,221	49.01	1,200,556	555,969	46.31
2004-05	12,608,667	8,493,250	67.36	9,902,244	7,246,655	73.18	2,706,422	1,246,595	46.06
2005-06	7,080,147	4,508,016	63.67	4,986,040	3,455,832	69.31	2,094,107	1,052,184	50.24
2006-07	3,982,988	2,053,237	51.55	2,747,384	1,533,697	55.82	1,235,603	519,540	42.05
2007-08	5,003,047	2,604,088	52.05	3,541,760	1,944,140	54.89	1,461,287	659,948	45.16
2008-09	6,645,488	2,911,124	43.81	5,427,749	2,342,884	43.16	1,217,740	568,241	46.66
Apr-09	814,609	321,544	39.47	611,609	251,838	41.18	203,000	69,706	34.34
May-09	759,010	309,475	40.77	567,630	247,862	43.67	191,381	61,613	32.19
Jun-09	753,449	368,271	48.88	541,885	289,787	53.48	211,564	78,484	37.10
Jul-09	821,785	394,320	47.98	622,179	336,082	54.02	199,606	58,239	29.18
Aug-09	603,962	269,695	44.65	442,021	207,605	46.97	161,941	62,091	38.34
Sep-09	882,791	464,447	52.61	667,169	383,507	57.48	215,622	80,940	37.54

Contd.

Contd.

Year	Turnover of Non-Repo Govt Securities			Turnover of Non-Repo Central & State Govt Sec.			Turnover of Non-Repo T-Bills		
	On SGL (₹ mn)	On WDM (₹ mn)	Share of WDM (%)	On SGL (₹ mn)	On WDM (₹ mn)	Share of WDM (%)	On SGL (₹ mn)	On WDM (₹ mn)	Share of WDM (%)
Oct-09	785,230	324,719	41.35	435,424	238,156	54.70	349,806	86,562	24.75
Nov-09	931,260	495,246	53.18	699,764	420,524	60.10	231,497	74,722	32.28
Dec-09	784,656	307,577	39.20	524,617	244,340	46.57	260,039	63,237	24.32
Jan-10	782,042	418,721	53.54	534,786	313,677	58.65	247,256	105,044	42.48
Feb-10	510,991	250,529	49.03	333,872	180,628	54.10	177,119	69,901	39.47
Mar-10	588,598	292,479	49.69	323,280	171,104	52.93	265,318	121,374	45.75
2009-10	9,018,385	4,217,022	46.76	6,304,237	3,285,111	52.11	2,714,149	931,911	34.34
Apr-10	932,330	421,687	45.23	587,425	305,313	51.97	344,905	116,373	33.74
May-10	1,036,410	508,708	49.08	801,142	412,567	51.50	235,268	96,140	40.86
Jun-10	670,186	368,482	54.98	540,314	297,271	55.02	129,872	71,211	54.83
Jul-10	580,200	350,272	60.37	424,017	254,405	60.00	156,183	95,866	61.38
Aug-10	595,454	326,224	54.79	450,257	252,271	56.03	145,196	73,954	50.93
Sep-10	545,184	322,223	59.10	427,668	266,284	62.26	117,515	55,940	47.60
Apr2010-Sep2010	4,359,763	2,297,596	52.70	3,230,824	1,788,111	55.35	1,128,939	509,485	45.13

Source: NSE

Note : SGL Non-Repo Turnover excludes NDS-OM turnover

Settlement of Trades in Government Securities

During 2009-10, 345,607 trades in government securities amounting to ₹ 89,867,190 crore (US\$ 1,990,855 million) were settled by CCIL. Out of the total trades, 92.71% of the trades were outright transactions and the rest were repo transactions. (Table 5-7).

Table 5-7: Settlement of Trades in Government Securities

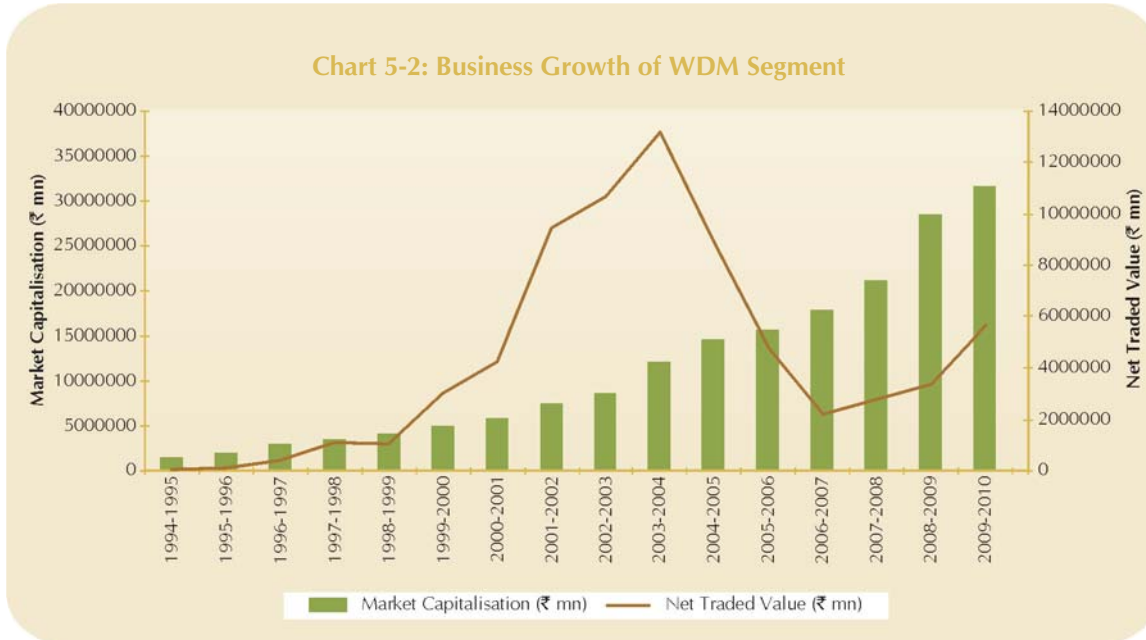
Month	Outright Transactions		Repo Transactions		Total		
	No. of Trades	Amount (Face Value in ₹ mn)	No. of Trades	Amount (Face Value in ₹ mn)	No. of Trades	Amount (Face Value in ₹ mn)	Amount (Face Value in US \$. mn)
2001-02	7,131	389,190	524	159,300	7,655	548,480	11,239
2002-03	191,843	10,761,470	11,672	4,682,290	203,515	15,443,760	325,132
2003-04	243,585	15,751,330	20,972	9,431,890	264,512	25,183,220	580,392
2004-05	160,682	11,342,221	24,364	15,579,066	185,046	26,921,287	615,344
2005-06	125,509	8,647,514	25,673	16,945,087	151,182	25,592,601	573,697
2006-07	137,100	10,215,357	29,008	25,565,014	166,108	35,780,371	802,071
2007-08	188,843	16,538,512	26,612	39,487,508	215,455	56,026,020	1,401,702
2008-09	245,964	21,602,334	24,280	40,942,858	270,244	62,545,192	1,227,580
2009-10	316,956	29,138,900	28,651	60,728,290	345,607	89,867,190	1,990,855
April 10 - Sep 10	195,796	18,002,650	13,338	22,024,080	209,134	40,026,730	888,693

Source: CCIL Fact Book



Developments in WDM Segment of NSE

During 2009-10, the turnover in the WDM segment of NSE (i.e. of G-secs, T-bills, PSU bonds and others) registered an increase of 68.83% to ₹ 5,638,159 million (US \$ 124,904 million) from ₹ 3,359,515 million (US \$ 65,937 million) in 2008-09. The average daily turnover also increased from ₹ 14,116 million (US \$ 208.30 million) to ₹ 23,591 million (US \$ 234.20 million) during the same period. (Annexure 5-1)



The summary statement of business growth of WDM segment is presented in Annexure 5-1 and Chart 5-2. The highest turnover of ₹ 649,987 million (US \$ 32,499 million) was witnessed in November 2009 during the fiscal 2009-10. The average daily turnover ranged between ₹ 17,889 million (US \$ 396 million) and ₹ 32,499 million (US \$ 720 million).

Securities Profile

The turnover in Government securities increased by 39.93% in 2009-10 as compared to the previous year, and accounted for a turnover of ₹ 3,278,374 million (US \$ 72,627 million). Its share in total turnover was 58.15% in the 2009-10 (Table 5-8). The share of T-Bills in WDM turnover accounted for a share of 16.49% during 2009-10 (Chart 5-3).

Table 5-8: Security-wise Distribution of WDM Turnover

Month/Year	Turnover (in ₹ Mn)					Turnover (in percent)			
	Government Securities	T-Bills	PSU/ Inst. Bonds	Others	Total WDM Turnover	Government Securities	T-Bills	PSU/ Inst. Bonds	Others
1994-95 (June-March)	30,264	26,337	8,239	2,970	67,812	44.63	38.84	12.15	4.38
1995-96	77,294	22,596	11,495	7,292	118,677	65.13	19.04	9.69	6.14
1996-97	273,522	109,570	27,692	11,992	422,776	64.70	25.92	6.55	2.84
1997-98	847,159	188,703	40,500	36,272	1,112,633	76.14	16.96	3.64	3.26
1998-99	845,757	107,051	50,414	51,469	1,054,691	80.19	10.15	4.78	4.88
1999-00	2,828,906	110,126	48,675	54,455	3,042,162	92.99	3.62	1.60	1.79

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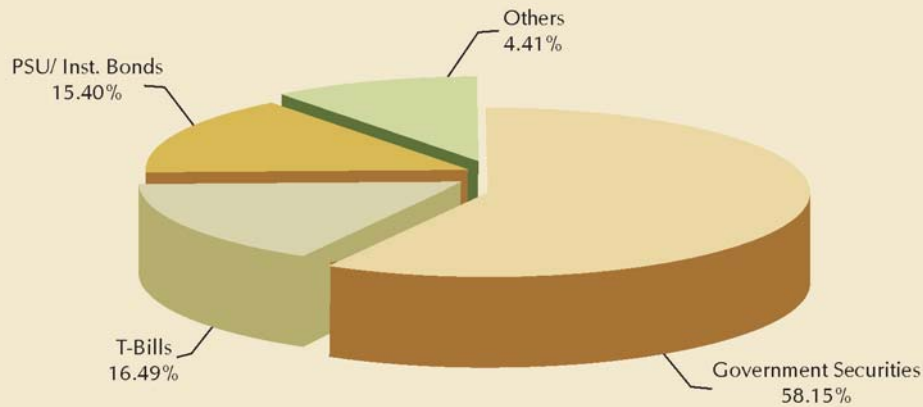
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Month/Year	Turnover (in ₹ Mn)					Turnover (in percent)			
	Government Securities	T-Bills	PSU/ Inst. Bonds	Others	Total WDM Turnover	Government Securities	T-Bills	PSU/ Inst. Bonds	Others
2000-01	3,909,520	231,434	78,859	66,002	4,285,815	91.22	5.40	1.84	1.54
2001-02	9,021,049	255,742	109,874	86,194	9,471,912	95.24	2.70	1.16	0.91
2002-03	10,005,182	322,748	199,847	159,237	10,687,014	93.62	3.02	1.87	1.49
2003-04	12,187,051	556,709	271,116	146,087	13,160,962	92.60	4.23	2.06	1.11
2004-05	7,248,302	1,248,422	178,346	197,866	8,872,936	81.69	14.07	2.01	2.23
2005-06	3,455,629	1,052,333	121,734	125,538	4,755,235	72.67	22.13	2.56	2.64
2006-07	1,533,697	519,541	44,178	93,648	2,191,065	70.00	23.71	2.02	4.27
2007-08	1,943,470	660,622	92,318	126,760	2,823,170	68.84	23.40	3.27	4.49
2008-09	2,342,884	568,239	300,080	148,313	3,359,515	69.74	16.91	8.93	4.41
Apr-09	251,838	69,706	92,146	42,839	456,529	55.16	15.27	20.18	9.39
May-09	247,862	61,613	63,086	30,097	402,658	61.56	15.30	15.66	7.47
Jun-09	289,787	78,484	52,822	24,586	445,679	65.02	17.61	11.85	5.52
Jul-09	336,086	58,239	77,979	39,916	512,220	65.61	11.37	15.22	7.79
Aug-09	200,864	59,791	75,022	46,647	382,323	52.54	15.64	19.62	12.20
Sep-09	383,507	80,940	78,571	43,722	586,740	65.36	13.79	13.39	7.45
Oct-09	238,156	86,562	62,239	50,357	437,314	54.46	19.79	14.23	11.52
Nov-09	420,524	74,722	79,398	75,343	649,987	64.70	11.50	12.22	11.59
Dec-09	244,340	63,237	45,580	22,514	375,671	65.04	16.83	12.13	5.99
Jan-10	313,677	105,044	70,010	81,631	570,362	55.00	18.42	12.27	14.31
Feb-10	180,628	69,901	63,224	34,248	348,000	51.90	20.09	18.17	9.84
Mar-10	171,104	121,374	108,251	69,947	470,677	36.35	25.79	23.00	14.86
2009-10	3,278,374	929,611	868,329	561,845	5,638,159	58.15	16.49	15.40	9.97
Apr-10	305,313	116,373	135,159	61,396	618,241	49.38	18.82	21.86	9.93
May-10	412,567	96,140	163,827	59,977	732,511	56.32	13.12	22.37	8.19
Jun-10	297,271	71,211	90,807	42,138	501,427	59.29	14.20	18.11	8.40
Jul-10	254,405	95,866	98,174	22,900	471,346	53.97	20.34	20.83	4.86
Aug-10	252,271	73,954	83,630	41,230	451,085	55.93	16.39	18.54	9.14
Sep-10	266,284	55,940	93,680	35,960	451,864	58.93	12.38	20.73	7.96
Apr2010-Sep2010	1,788,111	509,485	665,277	263,600	3,226,473	55.42	15.79	20.62	8.17

Source: NSE



Chart 5-3: Security-wise Distribution of Turnover, 2009-10



The share of top '10' securities has decreased to 35.14% in 2009-10 as compared to 43.05% in 2008-09 (Table 5-10). The share of top '100' securities decreased to 77.89% in 2009-10 as against 83.87% during 2008-09. Top 50 securities accounted for 65.63% of turnover in 2009-10.

Participant Profile

Indian banks, foreign banks and PDs together accounted for over 48.15% of WDM turnover during 2009-10 and 47.95% of the WDM turnover during April-September 2010. The share of the Indian banks increased from 18.11% in 2008-09 to 19.84% in 2009-10. The trading member's contribution was the highest at 49.23% during 2009-10. (Table 5-9 and Chart 5-4)

Chart 5-4: Participant-wise Distribution of Turnover, 2009-10

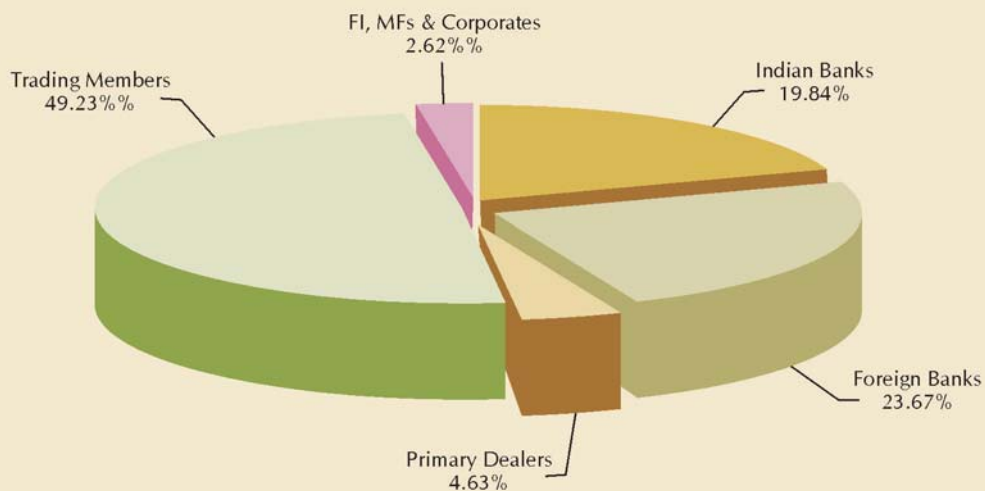


Table 5-9: Participant wise Distribution of WDM Turnover

(In percent)

Month/Year	Turnover (in ₹mn)					Turnover (in percent)					
	Trading Members	FIs/MFs/ Corporates	Primary Dealers	Indian Banks	Foreign Banks	Total Turnover	Trading Members	FIs/MFs/ Corporates	Primary Dealers	Indian Banks	Foreign Banks
2000-01	996,023	179,147	948,879	1,437,462	724,303	4,285,815	23.24	4.18	22.14	33.54	16.90
2001-02	2,227,794	394,032	2,131,180	3,466,720	1,252,187	9,471,912	23.52	4.16	22.50	36.60	13.22
2002-03	2,651,448	402,900	2,354,349	4,143,355	1,134,961	10,687,014	24.81	3.77	22.03	38.77	10.62
2003-04	4,580,015	600,140	2,241,312	4,785,326	954,170	13,160,962	34.80	4.56	17.03	36.36	7.25
2004-05	3,013,249	456,069	1,641,493	2,652,121	1,110,004	8,872,936	33.96	5.14	18.50	29.89	12.51
2005-06	1,522,151	186,405	1,040,921	1,334,794	670,964	4,755,235	32.01	3.92	21.89	28.07	14.11
2006-07	676,601	59,159	434,269	570,334	450,702	2,191,065	30.88	2.70	19.82	26.03	20.57
2007-08	1,077,039	66,062	243,922	671,350	764,797	2,823,170	38.15	2.34	8.64	23.78	27.09
2008-09	1,500,142	114,076	221,060	608,509	915,728	3,359,515	44.65	3.40	6.58	18.11	27.26
Apr-09	233,697	13,605	27,757	77,838	103,632	456,529	51.19	2.98	6.08	17.05	22.70
May-09	191,021	12,563	19,207	76,545	103,322	402,658	47.44	3.12	4.77	19.01	25.66
Jun-09	199,040	13,192	23,621	82,896	126,929	445,679	44.66	2.96	5.30	18.60	28.48
Jul-09	218,564	12,805	27,967	127,338	125,545	512,220	42.67	2.50	5.46	24.86	24.51
Aug-09	184,433	9,558	18,696	86,061	83,576	382,323	48.24	2.50	4.89	22.51	21.86
Sep-09	238,392	16,370	24,643	158,478	148,856	586,740	40.63	2.79	4.20	27.01	25.37
Oct-09	238,642	10,714	17,536	69,970	100,451	437,314	54.57	2.45	4.01	16.00	22.97
Nov-09	315,829	18,200	33,799	135,782	146,377	649,987	48.59	2.80	5.20	20.89	22.52
Dec-09	205,192	13,449	20,061	84,564	52,406	375,671	54.62	3.58	5.34	22.51	13.95
Jan-10	316,038	8,099	11,008	89,319	145,899	570,362	55.41	1.42	1.93	15.66	25.58
Feb-10	168,815	7,934	12,145	72,732	86,374	348,000	48.51	2.28	3.49	20.90	24.82
Mar-10	266,262	11,155	24,522	57,328	111,409	470,677	56.57	2.37	5.21	12.18	23.67
2009-10	2,775,924	147,645	260,962	1,118,852	1,334,776	5,638,159	49.23	2.62	4.63	19.84	23.67
Apr-10	313,510	15,518	31,221	109,800	148,192	618,241	50.71	2.51	5.05	17.76	23.97
May-10	341,863	22,635	20,730	124,454	222,830	732,511	46.67	3.09	2.83	16.99	30.42
Jun-10	236,272	18,202	22,213	88,201	136,538	501,426	47.12	3.63	4.43	17.59	27.23
Jul-10	238,548	13,763	23,709	83,617	111,709	471,345	50.61	2.92	5.03	17.74	23.7
Aug-10	230,459	10,104	27,426	70,910	112,185	451,084	51.09	2.24	6.08	15.72	24.87
Sep-10	224,712	13,917	20,198	46,000	147,036	451,863	49.73	3.08	4.47	10.18	32.54
Apr2010-Sep2010	1,585,364	94,139	145,497	522,981	878,491	3,226,472	49.14	2.92	4.51	16.21	27.23

Source : NSE



Top '50' trading members accounted for the total turnover of WDM in 2009-10, which is indicative of the narrow membership structure of WDM segment (Table 5-10). As on June 30, 2010, there were 63 members on the WDM segment.

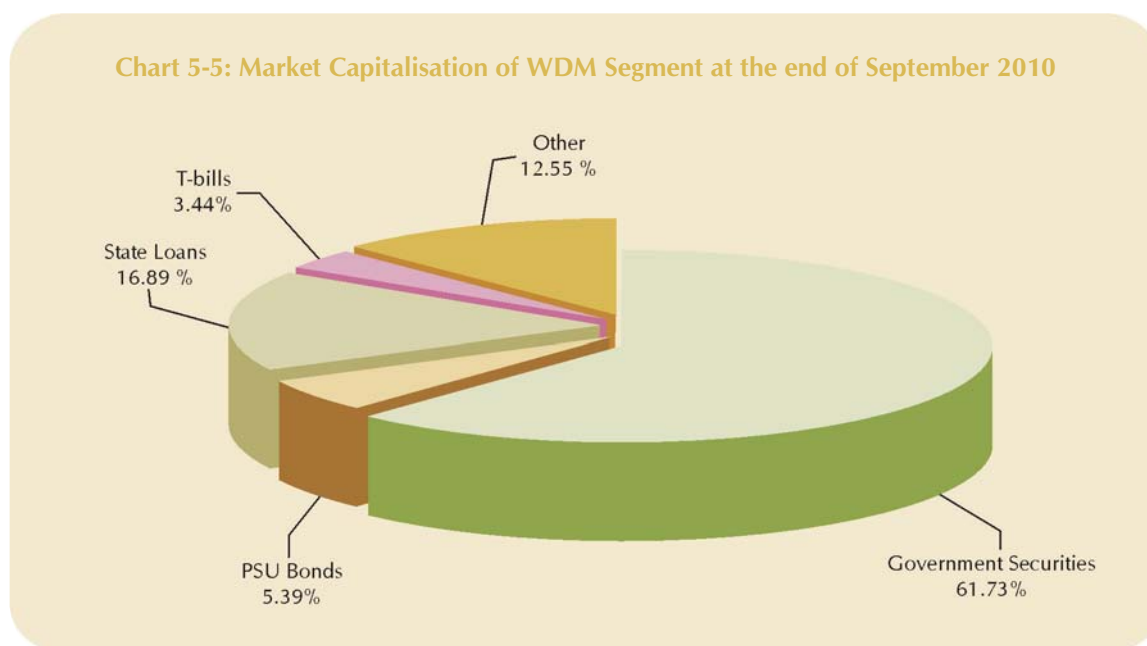
Table 5-10: Share of Top 'N' Securities/Trading Members/Participants in Turnover in WDM Segment

Year	In Percent				
	Top 5	Top 10	Top 25	Top 50	Top 100
Securities					
2000-01	42.20	58.30	80.73	89.97	95.13
2001-02	51.61	68.50	88.73	94.32	97.19
2002-03	43.10	65.15	86.91	92.74	96.13
2003-04	37.06	54.43	81.58	90.66	95.14
2004-05	43.70	57.51	71.72	80.59	89.55
2005-06	47.42	59.78	72.02	81.04	89.36
2006-07	40.90	51.29	65.82	77.15	86.91
2007-08	39.65	53.31	68.35	79.64	49.55
2008-09	31.31	43.05	60.42	72.45	83.87
2009-10	24.19	35.14	53.05	65.63	77.89
Apr2010-Sep2010	30.94	40.79	53.68	66.20	79.94
Trading Members					
2000-01	35.17	54.25	86.82	100.00	--
2001-02	35.18	58.68	88.36	100.00	--
2002-03	31.77	53.71	85.49	100.00	--
2003-04	30.72	53.01	86.71	100.00	--
2004-05	35.75	56.84	86.74	100.00	--
2005-06	39.68	60.63	89.38	100.00	--
2006-07	57.75	78.01	96.43	100.00	--
2007-08	65.32	80.24	97.60	100.00	--
2008-09	69.92	82.89	98.38	100.00	-
2009-10	73.72	85.28	97.98	100.00	-
Apr2010-Sep2010	75.18	87.11	98.83	100.00	-
Participants					
2000-01	17.51	28.85	50.64	69.72	76.78
2001-02	17.49	29.25	50.19	69.16	76.49
2002-03	17.27	28.29	49.22	68.14	75.20
2003-04	16.66	25.69	44.25	59.87	65.17
2004-05	16.82	28.64	47.24	61.71	66.00
2005-06	17.50	30.53	53.61	65.84	67.97
2006-07	25.85	40.65	59.99	68.17	69.09
2007-08	28.36	40.64	55.58	61.77	61.84
2008-09	24.08	38.24	51.19	55.34	55.38
2009-10	23.4	36.87	47.64	50.77	50.77
Apr 2010 - Sep 2010	24.56	37.93	48.77	50.84	50.84

Source : NSE

Market Capitalisation

Market capitalisation of the WDM segment has witnessed a constant increase. The total market capitalisation of securities available for trading on WDM segment stood at ₹ 31,659,295 million (US \$ 701,358 million) as at end-March 2010, registering a growth of 11.15% over end-March 2009. The market capitalisation at the end of September 2010 was ₹ 33,899,827 million (US \$ 752,660 million). The relative shares of different securities in market capitalization maintained the trend of 2007-10 with the Government securities accounting for the highest share of 61.61% of total market capitalisation at the end of March 2010 (Chart 5-5). The growth of market capitalisation of WDM is presented in Table 5-11.



Corporate Bonds

The movement in corporate bond market is shown in Table 5-12. The data on corporate bonds at NSE and BSE includes the trades on the respective trading systems as well as the reporting of trades carried out in the OTC market. The volumes of trades on NSE increased by 206.88% to ₹ 1,519,200 million (US \$ 33,655 million) during 2009-10 from ₹ 495,050 million (US \$ 9,716 million) in the previous fiscal. At BSE, volumes during 2009-10 were at ₹ 533,230 million (US \$ 11,813) while at FIMMDA it was ₹ 1,959,550 million (US \$ 43,506 million).

Table 5-12: Secondary Market Corporate Bond Trades at the Exchanges and OTC

Month/ Year	BSE			NSE			FIMMDA		
	No. of trades	Amount (₹ mn)	Amount (US \$ mn)	No. of trades	Amount (₹ mn)	Amount (US \$ mn)	No. of trades	Amount (₹ mn)	Amount (US \$ mn)
2007-08	27,697	411,870	10,304	3,787	314,530	7,869	4,089	234,790	5,874
2008-09	8,327	373,200	7,325	4,902	495,050	9,716	9,501	615,350	13,632
2009-10	7,408	533,230	11,813	12,522	1,519,200	33,655	18,300	1,959,550	43,506
April 2010- Sep 2010	2,611	232,690	5,166	5,159.00	92,888	2,062.34	18,596	244,661	5,432

Source : SEBI

Note : The data on corporate bonds at NSE and BSE includes the trades on the respective trading systems as well as the reporting of trades carried out at OTC



Table 5-11: Market Capitalisation of WDM Securities

Month/ Year (end of period)	Market Capitalisation (In ₹. mn)										(In per cent)				
	Govt. Securities	PSU bonds	State loans	T-bills	Others	Total	Total (US \$ mn)	Govt. securities	PSU bonds	State loans	T-bills	Others			
Mar-00	3,198,650	393,570	394,770	153,450	799,890	4,940,330	113,257	64.75	7.97	7.99	3.11	16.19			
Mar-01	3,972,280	363,650	446,240	177,250	848,940	5,808,360	124,536	68.39	6.26	7.68	3.05	14.62			
Mar-02	5,426,010	399,440	613,850	238,490	890,160	7,567,950	155,081	71.70	5.28	8.11	3.15	11.76			
Mar-03	6,580,017	383,828	720,940	349,188	610,839	8,644,812	181,996	76.12	4.44	8.34	4.04	7.06			
Mar-04	9,593,017	568,319	793,403	326,920	876,979	12,158,638	280,218	78.90	4.67	6.53	2.69	7.21			
Mar-05	10,061,070	683,981	2,232,082	735,018	905,193	14,617,344	334,111	68.83	4.68	15.27	5.03	6.19			
Mar-06	10,597,890	887,160	2,419,270	701,860	1,069,560	15,675,740	351,395	67.61	5.66	15.43	4.48	6.82			
Mar-07	11,822,777	896,275	2,498,474	1,151,827	1,478,652	17,848,006	409,452	66.24	5.02	14.00	6.45	8.28			
Mar-08	13,922,192	962,685	3,156,607	1,115,621	2,076,357	21,233,463	531,235	65.57	4.53	14.87	5.25	9.77			
Apr-08	14,376,427	985,243	3,147,158	1,102,799	2,074,881	21,686,508	425,643	66.29	4.54	14.51	5.09	9.57			
May-08	14,387,430	988,451	3,179,717	1,264,692	2,101,541	21,921,831	430,262	65.63	4.51	14.50	5.77	9.59			
Jun-08	14,340,716	1,010,848	3,170,955	1,330,607	2,096,483	21,949,609	430,807	65.33	4.61	14.45	6.06	9.55			
Jul-08	14,243,690	1,012,002	3,198,269	1,334,877	2,078,429	21,867,267	429,191	65.14	4.63	14.63	6.10	9.50			
Aug-08	14,553,971	1,038,658	3,224,469	1,337,684	2,101,167	22,255,949	436,819	65.39	4.67	14.49	6.01	9.44			
Sep-08	14,715,649	1,083,301	3,254,749	1,351,873	2,137,082	22,542,655	442,447	65.28	4.81	14.44	6.00	9.48			
Oct-08	15,358,258	1,089,216	3,242,175	1,416,801	2,189,593	23,296,043	457,233	65.93	4.68	13.92	6.08	9.40			
Nov-08	16,219,418	1,111,780	3,329,232	1,461,541	2,303,720	24,425,692	479,405	66.40	4.55	13.63	5.98	9.43			
Dec-08	18,082,701	1,191,653	3,447,210	1,418,878	2,548,718	26,689,159	523,830	67.75	4.46	12.92	5.32	9.55			
Jan-09	18,481,281	1,290,699	3,642,041	1,451,215	2,653,641	27,518,876	540,115	67.16	4.69	13.23	5.27	9.64			
Feb-09	18,686,841	1,296,090	3,768,197	1,443,362	2,905,377	28,099,867	551,518	66.50	4.61	13.41	5.14	10.34			
Mar-09	18,499,710	1,294,988	4,223,616	1,476,171	2,988,670	28,483,155	559,041	64.95	4.55	14.83	5.18	10.49			
Apr-09	19,595,344	1,319,930	4,236,884	1,615,908	3,115,258	29,883,325	624,260	65.57	4.42	14.18	5.41	10.42			
May-09	19,837,401	1,351,386	4,313,708	1,465,311	3,116,263	30,084,069	628,453	65.94	4.49	14.34	4.87	10.36			
Jun-09	20,341,627	1,365,868	4,369,455	1,453,911	3,228,187	30,759,049	642,554	66.13	4.44	14.21	4.73	10.50			
Jul-09	20,652,545	1,387,183	4,466,104	1,398,162	3,273,766	31,177,760	651,301	66.24	4.45	14.32	4.48	10.50			
Aug-09	18,980,031	1,445,716	4,577,307	1,374,919	3,326,613	29,704,586	620,526	63.90	4.87	15.41	4.63	11.20			
Sep-09	19,326,811	1,456,239	4,723,922	1,375,805	3,361,393	30,244,170	631,798	63.90	4.81	15.62	4.55	11.11			
Oct-09	19,613,493	1,513,638	4,863,634	1,336,147	3,400,416	30,727,328	641,891	63.83	4.93	15.83	4.35	11.07			
Nov-09	19,700,020	1,535,770	4,976,521	1,325,380	3,454,442	30,992,133	647,423	63.56	4.96	16.06	4.28	11.15			
Dec-09	19,793,385	1,559,270	5,097,215	1,343,883	3,503,716	31,297,468	653,801	63.24	4.98	16.29	4.29	11.19			
Jan-10	19,661,397	1,618,559	5,169,337	1,332,243	3,600,238	31,381,775	655,562	62.65	5.16	16.47	4.25	11.47			
Feb-10	19,568,620	1,635,904	5,300,915	1,331,862	3,696,304	31,533,605	658,734	62.06	5.19	16.81	4.22	11.72			
Mar-10	19,504,360	1,629,786	5,369,956	1,356,961	3,798,232	31,659,295	661,360	61.61	5.15	16.96	4.29	12.00			
Apr-10	19,958,288	1,673,024	5,410,185	1,344,788	3,843,681	32,229,965	715,585	61.92	5.19	16.79	4.17	11.93			
May-10	20,114,039	1,724,171	5,491,132	1,545,866	3,976,134	32,851,342	729,381	61.23	5.25	16.72	4.71	12.10			
Jun-10	20,195,496	1,783,329	5,547,306	1,296,652	4,025,357	32,848,140	729,310	61.48	5.43	16.89	3.95	12.25			
Jul-10	20,044,516	1,829,049	5,598,098	1,148,503	4,147,174	32,767,340	727,516	61.17	5.58	17.08	3.51	12.66			
Aug-10	20,594,607	1,826,240	5,658,171	1,204,850	4,218,033	33,501,901	743,826	61.47	5.45	16.89	3.60	12.59			
Sep-10	20,928,033	1,825,566	5,724,760	1,166,958	4,254,509	33,899,827	752,660	61.73	5.39	16.89	3.44	12.55			

Source: NSE



Settlement of Trades in Corporate Bonds

During December 2009- March 2010, 9,386 trades in corporate bonds amounting to ₹ 12,548,834 million (USD \$ 277,998) were settled by NSCCL and ICCL. (Table 6-8). During April 2010 to September 2010, 18,829 trades amounting to ₹ 2,615,561 million (US \$ 58,072 million) were settled by NSCCL and ICCL. (Table 5-13)

Table 5-13: Settlement Statistics of Corporate Bonds

Month	NSE			BSE			Total		
	Total No. of Trades Settled	Settled Value ₹ mn	Settled Value US \$ mn	Total No. of Trades Settled	Settled Value ₹ mn	Settled Value US \$ mn	Total No. of Trades Settled	Settled Value ₹ mn	Settled Value US \$ mn
Dec-09	1,438	173,005	3,833	55	4,036	89	1,493	177,041	3,922
Jan-10	2,230	313,969	6,955	85	12,441	276	2,315	326,409	7,231
Feb-10	2,063	269,773	5,976	85	9,499	210	2,175	279,272	6,187
Mar-10	3,191	443,312	9,821	212	28,849	639	3,403	472,161	10,460
Dec 09-Mar10	8,922	12,000,587	265,853	437	548,247	12,145	9,386	12,548,834	277,998
Apr-10	3,020	437,266	9,708	150	18,678	415	3,170	455,944	10,123
May-10	3,606	479,307	10,642	145	17,813	396	3,751	497,120	11,037
Jun-10	2,983	378,912	8,413	166	22,579	501	3,149	401,491	8,914
Jul-10	3,300	471,810	10,475	139	21,466	477	3,439	493,276	10,952
Aug-10	2,581	371,671	8,252	117	12,193	271	2,698	383,865	8,523
Sep-10	2,545	371,671	8,252	77	5,823	129	2,622	383,865	8,523
Apr 10-Sep 10	18,035	2,510,638	55,742	794	98,553	2,188	18,829	2,615,561	58,072

Source: SEBI website

International Comparison in Corporate Bonds

Table 5-14 shows the bond issuance of corporate bonds in various countries. Among the various countries, issuance of corporate bonds in India was the lowest in 2009 while in countries such as Mexico, Venezuela, Russia, Poland and Brazil were among the top bond issuance countries in the same year.

Table 5-14: Bond Issuance in Emerging Markets (in US dollar)

	2005	2006	2007	2008	2009
Mexico	9,165	6,207	6,341	4,473	15,541
Venezuela	5,925	--	8,750	4,650	11,000
Brazil	17,769	12,304	9,917	6,735	10,167
UAE	5,672	9,918	9,772	3,557	13,004
Poland	11,852	4,694	4,111	3,785	10,154
Russia	15,366	20,805	30,190	22,063	10,809
Indonesia	2,817	2,000	1,750	4,200	5,454
Phillipines	3,900	4,623	1,000	350	5,350
India	2,118	2,644	7,549	1,408	2,150

Source: IMF, Global Financial Stability Report April 2010



Yields

The yields (yield-to-maturity) on government and corporate securities of different maturities of 0-1 year, 5-6 years, 9-10 years and above 10 years are presented in (Table 5-15). The yields on government and corporate securities showed an upward trend towards the end of first-half of 2009-10.

Table 5-15: Yields on Government and Corporate Securities from April 2007 to September 2010

(In percent)

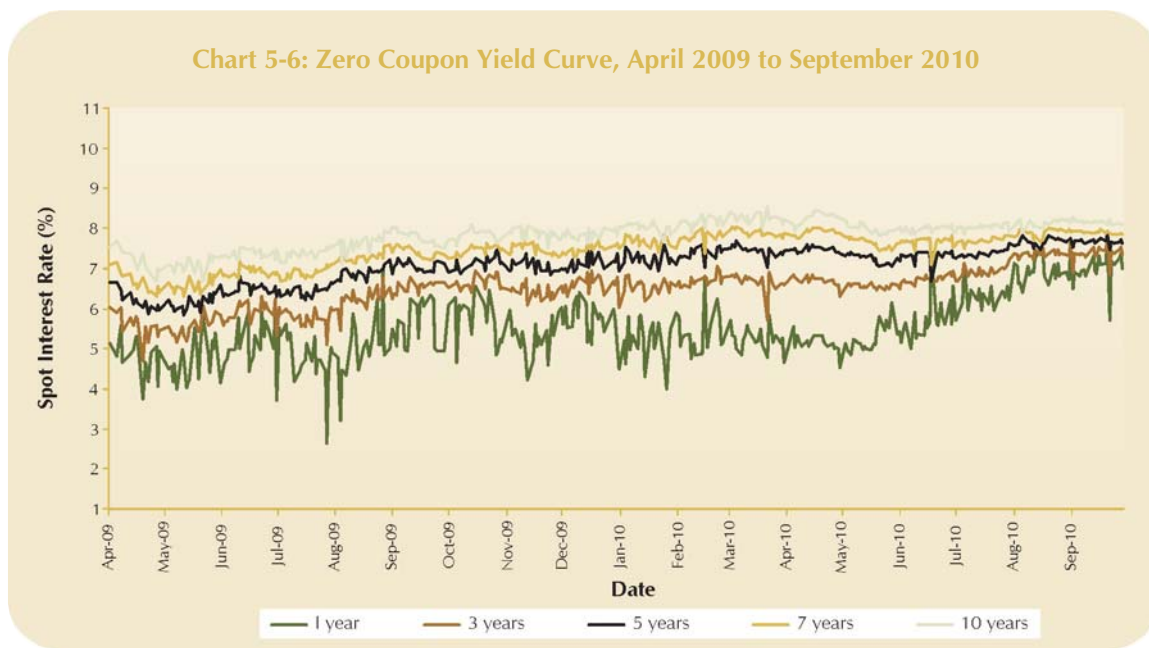
Month/ Year	Government Securities				Corporate Securities			
	0-1 year	5-6 years	9-10 years	Above 10 years	0-1 year	5-6 years	9-10 years	Above 10 years
Apr-07	7.34	8.14	8.14	8.45	9.60	10.53	10.04	10.12
May-07	7.30	8.02	8.17	8.39	9.72	10.30	10.00	10.04
Jun-07	7.02	7.90	8.23	8.49	8.63	10.11	10.08	10.30
Jul-07	5.24	7.26	7.86	8.17	7.46	8.78	9.65	9.52
Aug-07	6.73	7.69	7.90	8.30	8.78	9.42	9.57	9.69
Sep-07	7.10	7.68	7.83	8.34	8.74	9.36	9.97	9.91
Oct-07	6.97	7.72	7.87	8.40	8.42	9.17	9.58	9.62
Nov-07	7.47	7.77	7.90	8.28	0.00	9.09	9.45	9.58
Dec-07	7.58	7.79	7.87	8.16	8.69	9.04	9.39	9.45
Jan-08	7.11	7.48	7.60	7.88	8.94	8.98	9.06	9.22
Feb-08	7.15	7.45	7.53	7.78	9.71	9.17	9.24	9.37
Mar-08	7.24	7.55	7.69	8.20	8.54	9.45	9.38	9.47
Apr-08	7.10	7.85	8.00	8.46	8.82	9.53	9.49	9.65
May-08	7.31	7.83	7.97	8.54	8.75	9.40	9.64	9.62
Jun-08	8.30	8.58	8.40	9.15	9.81	10.02	9.88	9.97
Jul-08	9.08	9.29	9.24	9.58	10.38	10.85	10.81	10.52
Aug-08	9.23	9.21	9.04	9.70	0.00	10.37	11.14	10.92
Sep-08	8.91	8.80	8.43	9.01	11.25	11.25	10.92	10.88
Oct-08	7.53	7.72	7.88	8.39	13.38	11.67	11.49	10.98
Nov-08	7.08	7.25	7.39	8.02	11.71	12.17	11.23	10.96
Dec-08	5.83	6.02	6.29	7.18	11.06	9.81	9.24	9.44
Jan-09	4.59	5.41	5.78	6.91	7.95	8.57	8.93	8.81
Feb-09	4.59	5.39	6.46	7.18	8.71	8.67	9.30	9.09
Mar-09	5.00	5.76	6.85	7.72	8.29	8.35	9.37	9.15
Apr-09	3.68	5.49	6.45	7.24	6.51	7.52	8.49	8.86
May-09	3.28	5.12	6.49	7.32	6.00	7.15	8.53	8.36
Jun-09	3.69	5.74	6.81	7.49	5.45	7.59	8.69	8.82
Jul-09	3.42	5.76	6.93	7.51	4.86	7.03	8.54	9.18
Aug-09	3.76	6.23	7.24	7.84	5.55	7.46	8.61	9.05
Sep-09	3.85	6.45	7.24	7.92	5.60	7.85	8.60	8.77
Oct-09	3.34	6.34	7.33	8.1	5.08	7.53	8.98	8.84
Nov-09	3.53	5.92	7.26	7.95	6.12	7.19	8.51	8.64
Dec-09	3.75	6.14	7.46	7.95	5.51	7.08	8.63	8.65
Jan-10	3.73	5.91	7.56	7.97	5.51	7.33	8.67	8.79
Feb-10	3.97	6.01	7.73	8.36	6.26	7.65	8.81	8.90
Mar-10	4.29	6.23	7.71	8.32	6.09	7.43	8.86	8.92
Apr-10	4.03	6.20	7.77	8.36	5.86	7.30	8.72	8.82
May-10	4.44	6.20	7.53	7.88	5.50	7.22	8.56	8.65
Jun-10	5.24	6.42	7.56	8.08	6.60	7.37	8.68	8.70
Jul-10	5.61	6.77	7.64	8.18	6.77	7.38	8.68	8.75
Aug-10	6.01	7.39	7.87	8.22	7.31	8.04	8.72	8.81
Sep-10	6.16	7.40	7.92	8.23	7.73	7.97	8.64	8.73

Source: NSE.

WDM Products and Services

Zero Coupon Yield Curve

Keeping in mind the requirements of the banking industry, financial institutions, mutual funds, insurance companies, that have substantial investment in sovereign papers, NSE disseminates a 'Zero Coupon Yield Curve' (NSE Zero Curve) to help in valuation of securities across all maturities irrespective of its liquidity in the market. This product has been developed by using Nelson-Siegel model to estimate the term structure of interest rate at any given point of time and has been successfully tested by using daily WDM trades data. This is being disseminated daily. The ZCYC depicts the relationship between interest rates in the economy and the associated terms to maturity. The estimates of daily ZCYC are available from February 1998. (Chart 5-6) plots the spot interest rates at different maturities for the period April 2009 till September 2010.



FIMMDA-NSE MIBID /MIBOR¹³

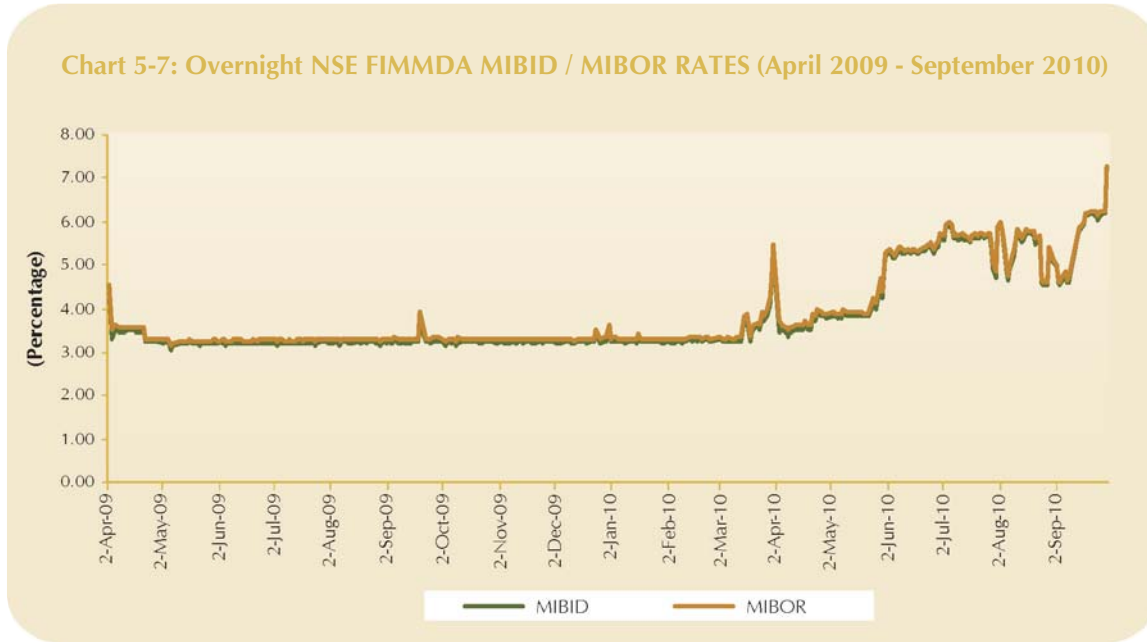
NSE has been computing and disseminating the NSE Mumbai Inter-bank Bid Rate (MIBID) and NSE Mumbai Inter-bank Offer Rate (MIBOR) for the overnight money market from June 15, 1998, the 14-day MIBID/MIBOR from November 10, 1998, the 1 month and 3 month MIBID/MIBOR from December 1, 1998 and the 3 day MIBID/MIBOR from, June 06, 2008 which is calculated and disseminated on every last working day of the week. In view of the robust methodology of computation of these rates and their extensive use by market participants, these have been co-branded with Fixed Income and Money Market Dealers Association (FIMMDA) from March 4, 2002. These are now known as FIMMDA-NSE MIBID/MIBOR.

FIMMDA-NSE MIBID/MIBOR are based on rates polled by NSE from a representative panel of 32 banks/institutions/primary dealers. Currently, quotes are polled and processed daily by the Exchange at 0940 (IST) for overnight rate, at 1130 (IST) for the 14 day, 1 month and 3 month rates and 0940 (IST) for 3 day rate as on the last working day of the week. The rates polled are then processed using the bootstrap method to arrive at an efficient estimate of the reference rates. The overnight rates are disseminated daily and 3 day rates are disseminated on the last working day of the week to the market at about 0955 (IST). The 14 day, 1 month and 3 month rates at about 1145 (IST).

¹³ A reference rate is an accurate measure of the market price. In the fixed income market, it is an interest rate that the market respects and closely matches.



The FIMMDA-NSE MIBID/MIBOR rates for month ends are presented in (Annexure 5-2). The daily FIMMDA-NSE MIBID/MIBOR rates are available at www.nseindia.com. (Chart 5-7) presents overnight FIMMDA-NSE MIBID/MIBOR from April 2008 to June 2009. These rates touched the peak of 7.20% and 7.28%, respectively, on September 30, 2010 and the low of 3.03% and 3.16%, respectively, on May 06, 2009.



NSE-VaR System

NSE has developed a VaR system for measuring the market risk inherent in Government of India (GOI) securities. NSE VaR system builds on the NSE database of daily yield curves (ZCYC) and provides measures of VaR using 5 alternative methods (variance-covariance, historical simulation method, weighted normal, weighted historical simulation and extreme value method). Together, these 5 methods provide a range of options for market participants to choose from. NSE-VaR system releases daily estimates of security-wise VaR at 1-day and multi-day horizons for securities traded on WDM segment of NSE and all outstanding GOI securities with effect from January 1, 2002. Participants can compute their portfolio risk as weighted average of security-wise VaRs, the weights being proportionate to the market value of a given security in their portfolio. 1-day VaR (99%) measure for GOI Securities traded on NSE-WDM on June 30, 2009 is depicted in Table 5-16. The VaR for other GOI securities are available at www.nseindia.com.

Table 5-16: 1-day VaR (99%) for GOI Securities traded on NSE-WDM as of Sep 2010

Security Type	Security Name	Issue Name	VaR (%)					Clean Price (off NSE-ZCYC)
			Normal	Weighted Normal	Historical Simulation	Weighted Historical Simulation	EVT	
GS	CG2011	9.39%	0.6530	0.9410	0.8290	0.7300	0.7380	101.6670
GS	CG2012	6.85%	0.9000	1.3480	1.1090	2.7120	1.0140	99.4880
GS	CG2012	7.40%	0.9150	1.3700	1.1250	1.5870	1.0260	100.2500
GS	CG2014	7.32%	1.1450	1.3490	1.3360	3.4950	1.1360	98.9960

Contd.

Contd.

Security Type	Security Name	Issue Name	VaR (%)					Clean Price (off NSE-ZCYC)
			Normal	Weighted Normal	Historical Simulation	Weighted Historical Simulation	EVT	
GS	CG2015	7.17%	1.1860	1.2780	1.3890	1.4680	1.1300	97.9560
GS	CG2017	7.46%	1.3240	1.0820	1.3860	1.7960	1.1100	97.5990
GS	CG2017	7.99%	1.2970	1.0820	1.3860	1.2050	1.1150	100.4480
GS	CG2020	7.80%	1.6070	1.0250	1.7000	1.1550	1.3850	97.9630
GS	CG2021	7.94%	1.7660	1.1590	1.9030	2.1480	1.5860	98.3990
GS	CG2022	8.08%	1.9740	1.4230	2.1940	1.5420	1.8060	98.9260
GS	CG2022	8.13%	1.9950	1.4560	2.2050	1.6170	1.8200	99.2670
GS	CG2026	6.90%	2.9140	2.7900	3.4700	3.1980	2.5830	87.4580
GS	CG2027	8.24%	2.9580	2.9210	3.5050	3.0270	2.6260	98.8190
GS	CG2027	8.26%	3.0640	3.0790	3.7390	3.0410	2.7870	98.8820
GS	CG2040	8.30%	5.5070	6.3190	7.7370	5.2950	5.1040	97.4020
TB	182D	070111	0.3220	0.4400	0.4130	0.3490	0.3610	98.1440

Source: NSE

Bond Index

A widely tracked benchmark for the performance of bonds is the ICICI Securities' (Isec) bond index (i-BEX), which measures the performance of the bond markets by tracking returns on government securities. There are also other indices like NSE's G-Sec Index and T-Bills Index. These have emerged as the benchmark of choice across all classes of market participants - banks, financial institutions, primary dealers, provident funds, insurance companies, mutual funds and foreign institutional investors. It has two variants, namely, a Principal Return Index (PRI) and Total Return Index (TRI). The PRI tracks the price movements of bonds or capital gains/losses since the base date. It is the movement of prices quoted in the market and could be seen as the mirror image of yield movements. During 2009-10, the PRI of i-BEX and NSE G-Sec Index declined by 2.89% and 7.85% respectively.¹⁴

The TRI, on the other hand, tracks the total returns available in the bond market. It captures both interest accruals and capital gains/losses. In a declining interest rate scenario, the index gains on account of interest accrual and capital gains, while losing on reinvestment income. As against this, during rising interest rate periods, the interest accrual and reinvestment income is offset by capital losses. Therefore, the TRI typically has a positive slope except during periods when the drop in market prices is higher than the interest accrual. During 2009-10, the TRI registered rise of 4.53% and 4.68% for i-BEX and NSE G-Sec Index respectively. While constructing the NSE-Government Securities Index prices are used from NSE ZCYC so that the movements reflect returns to an investor on account of change in interest rates. The index provides a benchmark for portfolio management by various investment managers and gilt funds. The movements of popular fixed income indices at monthly rates are presented in (Table 5-17).

¹⁴ March 2010 index figures have been compared with March 2009 figures.



Table 5-17: Debt Market Indices

At the end of the month	I Sec I-BEX (Base August 1, 1994 = 1000)		NSE-T-Bills Index		NSE-G Sec Index	
	TRI	PRI	TRI	PRI	TRI	PRI
Apr-09	5314.32	1395.98	260.57	260.57	305.83	120.04
May-09	5220.20	1362.53	261.14	261.14	299.23	117.15
Jun-09	5204.11	1349.98	261.74	261.74	297.20	115.92
Jul-09	5206.85	1342.61	263.64	263.64	298.75	115.87
Aug-09	5109.85	1308.74	264.95	264.95	295.04	114.03
Sep-09	5183.44	1319.61	266.11	266.11	301.26	115.81
Oct-09	5171.96	1308.35	267.1	267.1	300.52	114.78
Nov-09	5254.14	1321.49	266.77	266.77	298.64	113.56
Dec-09	5240.34	1309.69	269.23	269.23	296.79	112.13
Jan-10	5276.59	1310.48	269.77	269.77	300.98	113.48
Feb-10	5265.66	1299.92	271.31	271.31	297.66	111.68
Mar-10	5327.81	1306.83	272.03	272.03	297.28	110.97
Apr-10	5352.56	1304.81	272.09	272.09	300.72	111.54
May-10	5416.23	1312.71	272.78	272.78	302.97	111.84
Jun-10	5430.24	1307.88	272.69	272.69	301.73	110.74
Jul-10	5415.82	1296.04	274.4	274.4	301.35	109.93
Aug-10	5414.65	1287.48	275.45	275.45	298.88	108.94
Sep-10	5468.38	1292.18	276.62	276.62	301.26	109.29

Source: ICICI Securities and NSE

Way Forward

The G-sec market has evolved over the years and expanded given the increasing borrowing requirements of the Government. In contrast, the corporate bond market (which is only 10-15% of the bond market) has languished both in terms of market participation and structure. Non-bank finance companies are the main issuers and very small amount of finance are raised by companies directly. Various reasons for this are pre-dominance of bank loans, limited participation by foreign institutional investors, pension and insurance companies. Due to the limited participation by the institutional participants, even the households lack confidence. The crowding out by government bonds is another reason for slackness in the market. However, with various government and regulators initiatives¹⁵, the corporate bond is gradually gearing up and seems to be promising for financing long term infrastructure projects as bank financing prospects for the infrastructure sector is drying up.

¹⁵ Clearing and settlement on DvP (Delivery versus Payment) III basis, Market making with primary dealers, Enabling Credit Default Swap, Allowing banks to do credit enhancement -Guaranteeing of corporate bonds by banks, Relaxing norms on short selling of Government bonds. Relaxing norms for use of shelf prospectus -requires amendment to Section 60 of Companies Act (MCA), Empowering bond holder under SARFAESI (Department of Financial Services, RBI), creation of a comprehensive bond data base (RBI, SEBI, FIMMDA). Amendment to Section 9 of the Stamp Act to lower stamp duties across states and make them uniform (Department of Revenue).

Annexure 5-1: Business Growth of WDM Segment

Month/Year	All Trades					Retail Trades					
	No. of Active Securities	Number of Trades	Turnover (₹ mn.)	Average Daily Turnover (₹ mn.)	Average Trade Size (₹ mn.)	Turnover (US \$ mn.)	Average Daily Turnover (US \$ mn.)	Number of Trades	Turnover (₹ mn.)	Turnover (US \$ mn.)	Share in Total Turnover (%)
2000-01	1,038	64,470	4,285,815	14,830	66.48	91,891	318	498	1,318	28.26	0.03
2001-02	979	144,851	9,471,912	32,775	65.39	194,097	672	378	1,094	22.42	0.01
2002-03	1,123	167,778	10,687,014	35,983	63.70	224,990	758	1,252	2,995	63.05	0.03
2003-04	1,078	189,518	13,160,962	44,765	69.44	303,318	1,032	1,400	3,317	76.45	0.03
2004-05	1,151	124,308	8,872,936	30,283	71.38	202,810	692	1,278	4,101	93.74	0.05
2005-06	897	61,891	4,755,235	17,547	76.83	106,596	393	892	3,104	69.58	0.07
2006-07	762	19,575	2,191,065	8,980	111.93	50,265	206	399	1,015	23.29	0.05
2007-08	601	16,179	2,823,170	11,380	174.50	70,632	285	211	490	12.26	0.02
2008-09	711	16,129	3,359,515	14,116	208.30	65,937	277	257	635	12.47	0.02
Apr-09	313	2,408	456,529	28,533	189.60	10,114	632	14	54	1.13	0.01
May-09	270	2,089	402,658	20,133	192.80	8,920	446	8	36	0.75	0.01
Jun-09	243	1,948	445,679	20,258	228.80	9,873	449	26	75	1.57	0.02
Jul-09	272	2,582	512,220	22,270	198.40	11,347	493	80	184	3.84	0.04
Aug-09	274	1,583	382,323	19,116	241.50	8,470	423	86	230	4.80	0.06
Sep-09	275	2,301	586,740	30,881	255.00	12,998	684	266	491	10.26	0.08
Oct-09	266	1,875	437,314	23,017	233.20	9,688	510	284	450	9.40	0.10
Nov-09	279	2,564	649,987	32,499	253.50	14,399	720	253	464	9.69	0.07
Dec-09	201	1,735	375,671	17,889	216.50	8,322	396	382	595	12.43	0.16
Jan-10	265	1,957	570,362	28,518	291.40	12,635	632	433	815	17.03	0.14
Feb-10	260	1,455	348,000	18,316	239.20	7,709	406	195	393	8.21	0.11
Mar-10	320	1,572	470,677	23,534	299.40	10,427	521	208	541	11.30	0.11
2009-10	1,144	24,069	5,638,159	23,591	234.20	124,904	523	2,235	4,328	90.41	0.08
Apr-10	326	1,911	618,241	32,539	323.50	13,726	722	50	101	2.24	0.02
May-10	324	2,555	732,511	36,626	286.70	16,264	813	43	98	2.18	0.01
Jun-10	297	2,027	501,427	22,792	247.40	11,133	506	120	243	5.40	0.05
Jul-10	239	1,618	471,346	21,425	291.30	10,465	476	73	144	3.20	0.03
Aug-10	259	1,945	451,085	21,480	231.90	10,015	477	237	448	9.95	0.10
Sep-10	278	2,094	451,864	22,593	215.80	10,032	502	310	596	13.23	0.13
April - Sep 2010	1,723	12,150	3,226,473	157,455	1,597	71,636	3,496	833	1,630	36.19	0.13

Source : NSE



Annexure 5-2: FIMMDA NSE MIBID/MIBOR Rates

Month/ Date	OVERNIGHT AT 9.40 a.m.		3 DAY AT 9.40 a.m.		14 DAY AT 11.30 a.m.		1 MONTH RATE AT 11.30 a.m.		3 MONTH RATE AT 11.30 a.m.	
	MIBID	MIBOR	MIBID	MIBOR	MIBID	MIBOR	MIBID	MIBOR	MIBID	MIBOR
29-Apr-09	3.24	3.31	3.25	3.31	3.43	3.87	4.06	4.42	5.18	5.64
30-May-09	3.22	3.30	3.21	3.27	3.31	3.74	3.81	4.16	4.84	5.29
30-Jun-09	3.22	3.30	3.22	3.28	3.10	3.46	3.48	3.82	4.35	4.72
31-Jul-09	3.21	3.28	3.22	3.28	3.15	3.50	3.43	3.80	4.29	4.52
31-Aug-09	3.23	3.29	3.18	3.27	3.09	3.47	3.35	3.77	4.23	4.58
29-Sep-09	3.26	3.33	3.22	3.30	3.12	3.57	3.43	3.92	4.26	4.67
31-Oct-09	3.21	3.30	3.23	3.30	3.11	3.41	3.40	3.72	4.24	4.61
30-Nov-09	3.23	3.30	3.23	3.29	3.10	3.49	3.36	3.74	4.13	4.44
31-Dec-09	3.44	3.59	3.44	3.56	3.27	3.67	3.55	3.98	4.18	4.60
30-Jan-10	3.21	3.31	3.23	3.30	3.32	3.59	3.62	3.90	4.23	4.59
26-Feb-10	-	-	3.29	3.35	3.27	3.69	3.65	4.17	4.37	4.97
31-Mar-10	5.25	5.47	5.25	5.44	3.88	4.53	4.49	5.09	5.02	5.69
30-Apr-10	-	-	3.81	3.89	3.85	4.14	4.13	4.46	4.62	5.01
31-May-10	5.15	5.25	4.66	4.80	4.26	4.69	4.59	4.95	4.95	5.33
30-Jun-10	5.61	5.73	5.44	5.50	5.33	5.72	5.77	6.26	5.99	6.50
31-Jul-10	5.86	5.90	4.73	4.87	5.36	5.71	5.81	6.15	6.14	6.53
31-Aug-10	5.06	5.13	4.54	4.62	5.31	5.65	5.88	6.22	6.52	6.90
29-Sep-10	7.20	7.28	6.08	6.17	6.23	6.60	6.58	6.97	7.10	7.49

Source : NSE

Derivatives Market

Introduction

The emergence and growth of market for derivative instruments can be traced back to the willingness of risk-averse economic agents to guard themselves against uncertainties arising out of fluctuations in asset prices. Derivatives are meant to facilitate hedging of price risk of inventory holding or a financial/commercial transaction over a certain period. By locking-in asset prices, derivative products minimize the impact of fluctuations in asset prices on the profitability and cash flow situation of risk-averse investors and thereby serve as instruments of risk management. By providing investors and issuers with a wider array of tools for managing risks and raising capital, derivatives improve the allocation of credit and the sharing of risk in the global economy, lowering the cost of capital formation and stimulating economic growth. Now that world markets for trade and finance have become more integrated, derivatives have strengthened these important linkages between global markets, increasing market liquidity and efficiency and are seen to be facilitating the flow of trade and finance.

Following the growing instability in the financial markets, the financial derivatives gained prominence in post-1970. In the recent years, the market for financial derivatives has grown both in terms of variety of instruments available, their complexity and turnover. Financial derivatives have changed the world of finance through creation of innovative ways to comprehend measure and manage risks.

India's tryst with derivatives began in the year 2000 when both NSE and BSE commenced trading in equity derivatives. In June 2000, Index futures became the first type of derivative instruments to be launched in the Indian markets followed by index options in June 2001, options in individual stocks in July 2001 and futures in single stock derivatives in November 2001. Since then, equity derivatives have come a long way. New products; expanding list of eligible investors; rising volumes and best of risk management framework for exchange traded derivatives have been the hallmark of the journey of equity derivatives in India so far.

India's experience with the equity derivatives market has been extremely positive. The derivatives turnover on the NSE has surpassed the equity market turnover. The turnover of derivatives on the NSE increased from ₹ 23,654 million in 2000-01 to ₹ 176,636,647 million in 2009-10 and ₹ 124,517,441 million in the first-half of 2010-11. The average daily turnover in this segment of the markets on the NSE was ₹ 723,921 mn in 2009-10 compared to that of ₹ 453,106 mn during 2008-09.

India is one of the most successful developing countries in terms of a vibrant market for exchange-traded derivatives. This reiterates the strengths of the modern development of India's securities markets, which are based on nationwide market access, anonymous electronic trading, and a predominantly retail market. There is an increasing sense that the equity derivatives market is playing a major role in shaping price discovery.



Table 6-1: Benchmark Indices Contracts & Volume in Futures & Options Segment of NSE for the fiscal 2009-10 and first-half of 2010-11

Indices/ Period	No of Contracts	Traded Value (₹ mn)	Traded Value (Us \$ mn)	Percentage of Contracts to total contracts (%)	No of Contracts	Traded Value (₹ mn)	Traded Value (Us \$ mn)	Percentage of Contracts to total contracts (%)
Index Futures								
	2009-10				April 2010-September 2010			
NIFTY	152,074,103	34,719,859	769,159	29.26	64,659,242	17,274,529	384,562	18.66
MINIFTY	18,563,269	1,693,892	37,525	3.57	7,363,411	783,176	17,435	2.12
BANKNIFTY	7,617,163	2,901,909	64,287	1.47	7,839,966	2,128,945	47,394	2.26
CNXIT	44,331	22,263	493	0.01	34,061	11,818	263	0.01
JUNIOR	23	15	0	0.00	*	-	-	-
NFTYMCAP50	7,959	5,934	131	0.00	534	293	7	0.00
CNX100	41	14	0	0.00	*	-	-	-
DEFTY	0	-	-	0.00	*	-	-	-
Index Options								
NIFTY	341,059,380	80,194,053	1,776,563	65.63	266,057,782	71,662,319	1,595,332	76.77
MINIFTY	13,61,123	12,863	285	0.03	68,495	7,363	164	0.02
BANKNIFTY	167,043	61,459	1,362	0.03	540,745	151,829	3,380	0.16
CNXIT	327	193	4	0.00	329	109	2	0.00
JUNIOR	0	-	-	-	*	-	-	-
NFTYMCAP50	16,592	11,054	245	0.00	0	-	-	-
CNX100	58	21	0	0.00	*	-	-	-
DEFTY	0	-	-	-	*	-	-	-
Total of all Indices	519,686,412	119,623,528.80	2,650,056	100.00	346,564,565	92,020,380.40	2,048,539	100.00
Total of Nifty Index Futures and Options	493,133,483	114,913,913	2,545,722	94.89	330,717,024	88,936,848	1,979,894	95.43

Source : NSE

*:- With effect from 31st July 2009 contracts on DEFTY, CNX100 and Junior have been discontinued.

Global Derivatives Markets

As the credit crisis took its toll in 2009, major US and European exchanges saw a dramatic decline in derivatives volume. The derivatives volume in interest rate sector was the most hit followed by equity index products. In the Asian exchanges, however, the futures and options contracts that traded actually rose by 24%. India and China led this explosive growth in derivatives trading volume; while currency futures and equity derivatives were the linchpin in India's impressive show, China's derivatives volumes got major boost from the commodity futures. These two big trends just about cancelled each other out and the overall growth trend in Futures and Options was still positive in 2009. The total number of futures and options contracts traded on the 70 exchanges worldwide tracked by the Futures Industry Association went up from 17.68 billion in 2008 to 17.7 billion in 2009, a growth of about 0.1%.

Table 6-2: Global Exchange traded derivatives volume by category

(in millions)

GLOBAL	Jan-Dec 2009	Jan-Dec 2008	(%) Change
Equity Index	6381.9	6488.6	-1.6
Individual Equity	5554.0	5511.2	0.8
Interest Rate	2467.7	3204.8	-23.0
Agricultural	927.6	894.6	3.7
Energy	655.9	580.9	12.9
Currency	984.4	597.4	64.8
Precious Metal	151.2	157.4	-3.9
Non-precious metal	462.5	198.7	132.8
Other	114.4	44.8	155.4
Total Volume	17699.6	17678.5	0.1

Source: Futures Industry Annual Volume Survey, March 2010.

Looking at global trends in derivatives volume by category, we find that non-precious metals were the most powerful drivers of increase in volumes of exchange traded derivative contracts in 2009, followed by trading in foreign currency derivatives products which grew at 64.8% (Table 6-2).

The trading volume in interest rate products, on the other hand, continued to slide in 2009 with a decline in volumes by 23% compared to 2008. The year-on-year percentage change in the interest rate category were negative almost everywhere. In 2009, on a y-o-y basis, Eurodollar futures down 26.7%, Euribor futures down 15.6%, 10-year Treasury futures down 26.1%, Euro bund futures fell 29.9%.

Table 6-3: Top 5 exchanges in various derivative contracts

(in million)

Top 5 exchanges by number of single stock futures contracts traded in 2009				
		2009	2008	% change
1	NYSE Liffe Europe	166	124	33.9
2	National Stock Exchange India	161	226	-28.7
3	Eurex	114	130	-12.6
4	Johannesburg Stock Exchange	89	420	-78.8
5	BME Spanish Exchanges	38	46	-18.9
Top 5 exchanges by number of single stock options contracts traded in 2009				
		2009	2008	% change
1	International Securities Exchange (ISE)	947	990	-4.3
2	Chicago Board Options Exchange (CBOE)	912	934	-2.3
3	Philadelphia Stock Exchange	578	538	7.8
4	BM&FBOVESPA	546	350	56.1
5	Eurex	283	349	-19.0

Contd.



Contd.

Top 5 exchanges by number of Stock index options contracts traded in 2009				
		2009	2008	% change
1	Korea Exchange	2920	2766	5.6
2	Eurex	364	514	-29.2
3	National Stock Exchange India	321	150	114.0
4	Chicago Board Options Exchange (CBOE)	222	259	-14.3
5	Taifex	76	98	-22.4

Top 5 exchanges by number of Stock index futures contracts traded in 2009				
		2009	2008	% change
1	CME Group	703	882	-20.3
2	Eurex	367	511	-28.2
3	National Stock Exchange of India	195	202	-3.5
4	Osaka Securities Exchange	130	131	-0.8
5	Korea Exchange	83	66	25.8

Source: WFE Market Highlights 2009

In terms of number of single stock futures contracts traded in 2009, NSE held the second position. It was third in terms of number of stock index options contracts traded and third in terms of number of stock index options contracts traded in 2009. These rankings are based on World Federation of Exchanges (WFE) Market Highlights 2009 (Table 6-3).

Table 6-4: Global Futures and Options Volume

(in million)

Rank		Exchange	Volume		
2009	2008		Jan-Dec 2009	Jan-Dec 2008	%change
1	3	Korea Exchange	3102.9	2865.5	8.3
2	2	Eurex (includes ISE)	2647.4	3172.7	-16.6
3	1	CME Group (includes CBOT and Nymex)	2589.5	3277.6	-21.0
4	4	NYSE Euronext (includes all EU and US markets)	1729.9	1675.8	3.2
5	5	Chicago Board Options Exchange	1135.9	1194.5	-4.9
6	6	BM&F Bovespa	920.3	741.9	24.0
7	8	National Stock Exchange of India	918.5	601.5	52.7
8	7	Nasdaq OMX Group	814.6	722.1	12.8
9	11	Russian Trading systems stock exchange	474.4	238.2	99.1
10	16	Shanghai Futures Exchange	434.8	140.3	210.0
11	10	Dalian Commodity Exchange	416.8	319.1	30.6
12	22	Multi Commodity Exchange of India (includes MCX-SX)	384.7	103.0	273.5
13	12	Intercontinental Exchange (includes US, UK and Canada Markets)	257.1	234.4	9.7
14	13	Zhengzhou Commodity Exchange	227.1	222.6	2.0
15	9	JSE Securities Exchange South Africa	166.6	513.6	-67.6
16	15	Osaka Securities Exchange	166.0	163.7	1.4

Contd.

Contd.

Rank		Exchange	Volume		
2009	2008		Jan-Dec 2009	Jan-Dec 2008	%change
17	14	Boston Options Exchange	137.7	178.7	-22.9
18	17	Taiwan Futures Exchange	135.1	136.7	-1.2
19	19	London Metal Exchange	111.9	113.2	-1.2
20	20	Hong Kong Exchanges & Clearing	98.5	105.0	-6.2
21	24	Mercado Espanol de Opciones y Futuros Financieros	93.0	83.4	11.5
22	26	Tokyo Financial Exchange	83.6	66.9	24.9
23	21	Australian Securities Exchange	82.2	94.8	-13.3
24	28	Turkish Derivatives Exchange	79.4	54.5	45.8
25	23	Tel-Aviv Stock Exchange	70.9	92.6	-23.4
26	27	Singapore Exchange	53.1	61.8	-14.1
27	29	Mercado a Termino de Roasario	51.5	42.2	22.0
28	25	Mexican Derivatives Exchange	48.8	70.1	-30.4
29	31	Italian Derivatives Market	42.6	38.9	9.4
30	32	Bourse de Montreal	34.8	38.1	-8.6
31	34	National Commodity & Derivatives Exchange (India)	29.9	24.6	21.3
32	30	Tokyo Commodity Exchange	28.8	41.0	-29.8
33	33	Tokyo Stock Exchange	26.2	32.5	-19.4
34	18	Moscow Interbank Currency Exchange	19.3	131.9	-85.4
35	37	Warsaw Stock Exchange	13.8	12.6	9.9
36	35	Oslo stock Exchange	13.5	16.1	-15.9
37	36	Budapest Stock Exchange	11.8	13.4	-11.7
38	39	Athens Derivatives Exchange	7.9	7.2	10.2
39	40	Bursa Malaysia	6.1	6.1	0.2
40	43	European Climate Exchange	5.1	2.8	81.1
41	-	ELX	5.0	0.0	NA
42	38	Tokyo Grain Exchange	4.8	8.4	-42.8
43	42	Kansas City Board of Trade	3.8	4.0	-5.1
44	45	Thailand Futures Exchange	3.1	2.1	43.5
45	41	One Chicago	3.0	4.0	-25.7
46	44	Central Japan Commodity Exchanges	1.8	3.3	-45.9
47	46	New Zealand Futures Exchange	1.5	1.5	2.1
48	-	Chicago Climate Exchange	1.4	0.5	183.4
49	47	Minneapolis Grain Exchange	1.2	1.4	-12.8
50	48	Wiener Boerse	0.8	1.1	-32.1
51	49	Dubai Mercantile Exchange	0.6	0.3	66.7
52	51	Mercado a Termino de Buenos Aires	0.2	0.2	20.0
53	50	Kansai Commodities Exchange	0.1	0.2	-66.7

Source: Futures Industry Annual Volume Survey, March 2010

Notes: # new entrants in the list by way of new exchange or new merged exchange

Ranking does not include exchanges that do not report their volume to the FIA



Table 6-4 gives the rank of various exchanges in terms of number of futures and options traded and/or cleared in 2008 and 2009. NSE improved its ranking in 2009 in terms of traded volumes in futures and options taken together, improving its worldwide ranking from 15th in 2006 to 8th in 2008 and 7th in 2009. The traded volumes in the derivatives segment of the NSE saw an increase of 52.7% in 2009 over the figure in 2008.

Derivatives Market Survey by WFE-August 2010

The World Federation of Exchanges carried out an annual survey of derivatives markets for the International Options Markets Association (IOMA) derivatives exchanges, covering the markets in its member countries. The survey, covering derivative markets in 69 exchanges, was published in August 2010.

The financial crisis of 2008, which had triggered a marked slowdown of derivatives markets, continued and deepened for certain types of contracts in 2009. Index futures had only started to slow down at the fall of 2008, the year 2009 ended with a negative performance of 16%. The long term interest rate derivatives products have plunged in an even more acute crisis with trading volumes declining by one third and open positions being dramatically reduced. On the contrary, commodity futures continued to grow rapidly in 2009 as in 2008.

2009		Single stock	Stock index	STIR	LTIR	Currency
Number of contracts traded (millions)	Options	3374	3869	397	78	37
	Futures	501	1928	1006	896	923
Growth rate of contracts traded	Options	2%	5%	-9%	-33%	-37%
	Futures	-39%	-16%	-21%	-29%	75%

Source : International Options Market Association (IOMA) Report, August 2010.

Note: STIR: short term interest rate products

LTIR: long term interest rate products

The main findings of the 2010 IOMA survey are listed below:

- In 2009, the growth rate of trading volumes in stock options was insignificant following a decrease in 2008.
- After having grown more rapidly than other segments of the derivatives market in previous years, the stock futures market observed a negative growth rate of 39% in 2009.
- Index options experienced a slowdown in the growth of traded volumes after several years of rapid growth albeit the y-o-y growth remained positive at 5% in 2009.
- The number of stock index futures traded decreased by 16% in 2009.
- Negative growth rates were observed in all groups of interest rate products for the second consecutive year in 2009. Overall, traded volumes were down 23% with long term interest rate options being the major laggard.
- Currency derivatives surged by 48%, driven by robust volumes in currency futures in India.
- A significant growth in commodity derivatives volume was observed in 2009 led by the two Chinese stock exchanges, such as the Dalian stock exchange and the Shanghai Futures exchange.

Major Developments in Derivatives Segment

Launch of currency futures on additional currency pairs

With a view to meet the need of hedging instruments, other than OTC products, to manage exchange risk, the RBI Committee on Fuller Capital Account Convertibility recommended that currency futures may be introduced subject

to risks being contained through proper trading mechanism, structure of contracts and regulatory environment. Accordingly, RBI in its Annual Policy Statement for the Year 2007-08 proposed to set up a Working Group on Currency Futures to study the international experience and suggest a suitable framework to operationalise the proposal, in line with the current legal and regulatory framework. This Group submitted its report in April, 2008. Following this, RBI and Securities and Exchange Board of India (SEBI) jointly constituted a Standing Technical Committee to inter-alia evolve norms and oversee implementation of Exchange Traded Currency Derivatives. The Committee submitted its report on May 29, 2008. This report laid down the framework for the launch of Exchange Traded Currency Futures in terms of the eligibility norms for existing and new Exchanges and their Clearing Corporations/Houses, eligibility criteria for members of such Exchanges/Clearing Corporations/Houses, product design, risk management measures, surveillance mechanism and other related issues.

The Regulatory framework for currency futures trading in the country, as laid down by the regulators, provide that persons resident in India are permitted to participate in the currency futures market in India subject to directions contained in the Currency Futures (Reserve Bank of India) Directions, 2008, which have come into force with effect from August 6, 2008.

The eligibility criteria for membership in the currency futures market of a recognized stock exchange have been mandated to be separate from the membership of the equity derivative segment or the cash segment. Banks authorized by the Reserve Bank of India under section-10 of the Foreign Exchange Management Act, 1999 as 'AD Category – I bank' are permitted to become trading and clearing members of the currency futures market of the recognized stock exchanges, on their own account and on behalf of their clients, subject to fulfilling certain minimum prudential requirements pertaining to net worth, non-performing assets etc.

NSE was the first exchange to have received an in-principle approval from SEBI for setting up currency derivative segment. The exchange launched its currency futures trading platform on 29th August, 2008. While BSE commenced trading in currency futures on 1st October, 2008, Multi-Commodity Exchange of India (MCX) started trading in this product on 7th October, 2008.

In continuation to its decision to permit trading in currency derivatives, SEBI, vide its circular dated January 19, 2010, decided to permit eligible stock exchanges to introduce currency futures on additional currency pairs such as Euro-INR, Pound Sterling-INR and Japanese Yen-INR. Both NSE and MCX launched these currency futures on additional currency pairs on February 01, 2010.

Standardized currency futures have the following features:

- a. EURINR, GBPINR and JPYINR futures contracts will have a 12 month trading cycle. A new contract will be introduced after 12 noon on the last trading day of the near month contract.
- b. The permitted lot size for EURINR and GBPINR is 1000 Euros and 1000 British Pounds respectively while that for JPYINR is 1,00,000 Japanese Yen.
- c. Base price of EURINR, GBPINR and JPYINR futures contracts on the first day shall be the theoretical futures price.

Relaunch of Interest Rate Futures on Indian Stock Exchanges

An Interest Rate Future (IRF) is a financial derivative with an interest-bearing instrument as the underlying asset. In case of IRF contracts, a borrower and a lender agree to fix the rate at which they will borrow or lend at a future date. As with other futures instruments, such as in commodities, the contract can help protect against rate swings. Interest rate futures are based on an underlying security which is a debt obligation and moves in value as interest rate changes.

IRFs were introduced in India in June 2003 on the NSE through launch of three contracts – a contract based on a notional 10-year coupon bearing bond, a contract based on a notional 10-year zero coupon bond and a contract based on 91-day Treasury bill. All the contracts were valued using the Zero Coupon Yield Curve (ZCYC), a curve which estimates relationship between maturity and interest rate. The contracts design did not provide for physical delivery. However, the product did not meet much success primarily due to the way the product was designed and market microstructure.



The contract traded only for 3 months and then withered out.

A proposal for change in the product design – introducing pricing based on the YTM of a basket of securities in lieu of ZCYC – was made in January 2004 but has not been implemented.

In the background of this experience with the IRF product, amidst an otherwise rapidly evolving financial market, the RBI set up a Working Group on IRF in August, 2007 to, inter-alia, review the experience with the IRF so far, with particular reference to product design issue and make recommendations for activating the IRF. The Group submitted its report in February, 2008, following which an RBI-SEBI Standing Technical Committee on Exchange-Traded Currency and Interest Rate Derivatives was constituted. The Report of this Committee has been made public on 17th June 2009. SEBI has invited eligible exchanges to apply for permission to offer this product on their trading platforms.

National Stock Exchange became the first exchange to receive approval from SEBI to introduce Exchange traded Interest Rate Futures (IRF) contracts for trading on the Currency Derivatives Segment of the exchange. Trading in IRF commenced on August 31, 2009. On its first day of trading, 14,559 contracts being traded at a total value of ₹ 267.31 crores.

Distinguishing features between the IRFs launched in 2003 and new products launched on August 31, 2009 are:

Features of Products launched in June 2003	Re-launched IRF product (Sept 2009)
1. To be traded on Derivatives Segment	To be Traded on CDS segment
2. Participation of FII's not allowed	Participation of FII's allowed
3. Three underlyings-Futures on 10-year notional Gol security with 6% coupon rate; futures on 10-year notional zero-coupon Gol security and futures on 91-day Treasury bill.	Underlying: 10-year 7% notional Gol bond.
4. Contracts were valued using the Zero Coupon Yield Curve (ZCYC). The contracts design did not provide for physical delivery.	These futures contracts would be based on 10-year government bond yield, which should be settled by physical delivery.
5. Cash Settled	Physical delivery – The deliverable grade of securities are Gol securities maturing at least 8 years but not more than 12 years from first day of the delivery month with a minimum total outstanding of ₹ 10,000 crores.

Other Policy Developments

I. Calendar spread margin modified for USD-INR contract

Based on the feedback received from stock exchanges, SEBI has decided to modify the calendar spread margin to be applied on the USD-INR contract. SEBI, vide its circular dated January 19, 2010 has further added, "A currency futures position at one maturity which is hedged by an offsetting position at a different maturity would be treated as a calendar spread. The calendar spread margin shall be at a value of ₹ 400 for a spread of 1 month; ₹ 500 for a spread of 2 months, ₹ 800 for a spread of 3 months and ₹ 1000 for a spread or 4 months or more. The benefit for a calendar spread would continue till expiry of the near month contract."

II. Standardized lot size for derivative contracts on individual securities

SEBI, in consultation with stock exchanges, has decided to standardize the lot size for derivative contracts on individual securities. The stock exchanges shall ensure that the lot size is same for an underlying traded across exchanges. The Stock Exchanges shall review the lot size once in every 6 months based on the average of the closing price of the underlying for last one month and wherever warranted, revise the lot size by giving an advance notice of at least 2 weeks to the market.

III. Introduction of derivative contracts on Volatility Index

In continuation to SEBI circular dated January 15, 2008 regarding introduction of volatility index, the capital market regulator, vide its circular dated April 27, 2010, has decided to permit stock exchanges to introduce derivatives contract on volatility index. The introduction of derivatives contracts on volatility index is subject to the condition that the underlying volatility index has a track record of at least one year.

IV. Introduction of Index options with tenure up to 5 years

Further to SEBI's circular dated January 11, 2008, regarding introduction of index options with tenure up to 3 years, SEBI has decided to permit stock exchanges to introduce option contracts on Sensex and Nifty with tenure up to 5 years. The introduction of such 5-year option contracts will subject to the condition that there are 8 semi annual contracts of the cycle June/December in sequence to 3 serial monthly contracts and 3 quarterly contracts of the cycle March/June/September/December.

V. Revised exposure margin for exchange traded equity derivatives

In a modification to SEBI's circular on exposure margin, it has decided, vide its circular dated July 7, 2010 that the exposure margin for exchange traded equity derivatives shall be higher of 5% or 1.5 times the standard deviation (of daily logarithmic returns of the stock price). In its earlier circular on October 15, 2008 on the said exposure margin, SEBI had specified that margin shall be higher of 10% or 1.5 times the standard deviation (of daily logarithmic returns of the stock price) of the notional value of the gross open position in single stock futures and gross short open position in stock options in a particular underlying.

VI. Physical settlement of stock derivatives

In continuation to SEBI's circular dated June 20, 2001 and November 02, 2001 regarding settlement of stock options and stock futures contracts respectively, SEBI, based on the recommendations of the Derivatives Market Review Committee and in consultation with stock exchanges, has decided to provide flexibility to stock exchanges to offer:

- a) Cash settlement (settlement by payment of differences) for both stock options and stock futures; or
- b) Physical settlement (settlement by delivery of underlying stock) for both stock options and stock futures; or
- c) Cash settlement for stock options and physical settlement for stock futures; or
- d) Physical settlement for stock options and cash settlement for stock futures.

Vide its circular dated July 15, 2010 SEBI has decided that stock exchanges may introduce physical settlement in a phased manner. On introduction, however, physical settlement for all stock options and/or all stock futures must be completed within six months of its introduction.

VII. Options on USD-INR spot rate

SEBI, vide its circular dated July 30, 2010 has allowed for the introduction of options on USD-INR spot rate on currency derivatives segment of stock exchanges. Premium styled European call and put options can be introduced on the USD-INR spot rate. The contract would be settled in cash in Indian rupee and the final settlement price would be the Reserve Bank Reference Rate on the date of expiry of the contracts.

VIII. European style stock options

In continuation of SEBI's circular dated June 20, 2001, on the exercise style of stock option contracts, SEBI, in consultation with stock exchanges, has decided to provide flexibility to stock exchanges to offer either European style or American style stock options. After opting for a particular style of exercise, a stock exchange shall offer options contracts of the same style on all eligible stocks. Further, a stock exchange may change to another style of exercise only after seeking prior approval of SEBI. The contracts specifications, including the risk management framework applicable for American style stock options, shall apply to European style stock options.



Market Design

Only two exchanges in India have been permitted to trade in equity derivatives contracts, such as the NSE and the BSE. NSE's market share in the total turnover of the derivatives market is a tad lower than the cent percent mark. Hence, the market design enumerated in this section is the derivative segment of NSE (hereafter referred to as the F&O segment).

The different aspects of market design for F&O segment of the exchanges can be summarized as follows:

Trading Mechanism	<p>The futures and options trading system of NSE, called NEAT-F&O trading system, provides a fully automated screen-based, anonymous order driven trading system for derivatives on a nationwide basis and an online monitoring and surveillance mechanism.</p> <p>There are four entities in the trading system:</p> <ol style="list-style-type: none"> <i>Trading members</i>, who are members of NSE, can trade either on their own account or on behalf of their clients including participants. <i>Clearing members</i>, who are members of NSCCL, carry out risk management activities and confirmation/inquiry of trades through the trading system. These clearing members are also trading members and clear trades for themselves and/or others. <i>Professional clearing members (PCM)</i> are clearing members who are not trading members. Typically, banks and custodians become PCMs and clear and settle trades for their trading members. <i>Participants</i> are client of trading members like financial institutions. These clients may trade through multiple trading members, but settle their trades through a single clearing member only. 										
Membership	<p>The members are admitted by NSE for its F&O segment in accordance with the rules and regulations of the Exchange and the norms specified by the SEBI. The eligibility criteria for membership on F&O segment has been mentioned in Chapter 4 Secondary Market – Trading. At the end of September 2010, there were 1295 and 1196 registered members in the CM and F&O segment respectively.</p>										
Contracts available	<ul style="list-style-type: none"> Index futures and index options contracts on NSE based on Nifty 50 Index, CNX IT Index, Bank Nifty Index and Nifty Midcap 50. Stock Futures and options, based on 223 individual securities. 										
Charges	<p>Transaction charges payable to the exchange by the trading member for the trades executed by him on the F&O segment are fixed at ₹ 2 per lakh of turnover (0.002%) subject to a minimum of ₹ 1,00,000 per year. The transactions in the options sub-segment, however, the transaction charges are levied on the premium value at the rate of 0.05% (each side) instead of on the strike price as levied earlier. NSE has reduced the transaction charges for trades done in the Futures segment from its present level to a slab based structure as given below w.e.f. October 1st, 2009.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Total Traded Value in a Month</th> <th style="text-align: center;">Revised Transaction Charges (₹ per lakh of Traded Value)</th> </tr> </thead> <tbody> <tr> <td>Up to First ₹ 2500 crores</td> <td>₹ 1.90 each side</td> </tr> <tr> <td>More than ₹ 2500 crores up to ₹ 7500 crores (on incremental volume)</td> <td>₹ 1.85 each side</td> </tr> <tr> <td>More than ₹ 7500 crores up to ₹ 15000 crores (on incremental volume)</td> <td>₹ 1.80 each side</td> </tr> <tr> <td>Exceeding ₹15000 crores (on incremental volume)</td> <td>₹ 1.75 each side</td> </tr> </tbody> </table>	Total Traded Value in a Month	Revised Transaction Charges (₹ per lakh of Traded Value)	Up to First ₹ 2500 crores	₹ 1.90 each side	More than ₹ 2500 crores up to ₹ 7500 crores (on incremental volume)	₹ 1.85 each side	More than ₹ 7500 crores up to ₹ 15000 crores (on incremental volume)	₹ 1.80 each side	Exceeding ₹15000 crores (on incremental volume)	₹ 1.75 each side
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Exceeding ₹15000 crores (on incremental volume)	₹ 1.75 each side										

Contd.

Contd.

Securities Transaction Tax			
The trading members are also required to pay securities transaction tax (STT) on non-delivery transactions at the rate of 0.017 (payable by the seller) for derivatives w. e. f. June 1, 2008.			
Taxable securities transaction	Rate (%)	Taxable Value	Payable by
Sale of an option in securities	0.017	Option premium	Seller
Sale of an option in securities, where option is exercised	0.125	Settlement Price	Purchaser
Sale of a futures in securities	0.017	Price at which such 'futures' is traded	Seller
Value of taxable securities transaction relating to an "option in securities" shall be the option premium, in case of sale of an option in securities. Value of taxable securities transaction relating to an "option in securities" will be the settlement price, in case of sale of an option in securities, where option is exercised.			
Contribution to Investor Protection Fund			
The trading members contribute to Investor Protection Fund of F&O segment at the rate of Re.1/- per ₹ 100 crore of the traded value (each side) in case of Futures segment and ₹1/- per ₹ 100 crore of the premium amount (each side) in case of Options segment.			
Clearing and Settlement	<ul style="list-style-type: none"> National Securities Clearing Corporation Limited (NSCCL) undertakes clearing and settlement of all trades executed on the futures and options (F&O) segment of the NSE. Index as well as stock options and futures are cash settled i.e. through exchange of cash. 		

Risk Management Framework

NSCCL has developed a comprehensive risk containment mechanism for the F&O segment. The salient features of risk containment mechanism on the F&O segment are:

- The financial soundness of the members is the key to risk management. Therefore, the requirements for membership in terms of capital adequacy (net worth, security deposits) are quite stringent.
- NSCCL charges an upfront initial margin for all the open positions of a Clearing Member. It specifies the initial margin requirements for each futures/options contract on a daily basis. It follows Value-at-Risk (VaR) based margining computed through SPAN. The CM in turn collects the initial margin from the Trading Members (TMs) and their respective clients.
- The open positions of the members are marked to market based on contract settlement price for each contract at the end of the day. The difference is settled in cash on a T + 1 basis.
- NSCCL's on-line position monitoring system monitors a CM's open position on a real-time basis. Limits are set for each CM based on his effective deposits. The on-line position monitoring system generates alert messages whenever a CM reaches 70 %, 80 %, 90 % and a disablement message at 100 % of the limit. NSCCL monitors the CMs for Initial Margin violation, Exposure margin violation, while TMs are monitored for Initial Margin violation and position limit violation.
- CMs are provided with a trading terminal for the purpose of monitoring the open positions of all the TMs clearing and settling through him. A CM may set limits for the TM clearing and settling through him. NSCCL assists the CM to monitor the intra-day limits set up by a CM and whenever a TM exceeds the limits, it stops that particular TM from further trading.



- f. A member is alerted of his position to enable him to adjust his exposure or bring in additional capital. Margin violations result in disablement of trading facility for all TMs of a CM in case of a violation by the CM.
- g. A separate settlement guarantee fund for this segment has been created out of deposit of members.

The most critical component of risk containment mechanism for F&O segment is the margining system and on-line position monitoring. The actual position monitoring and margining is carried out on-line through Parallel Risk Management System (PRISM). PRISM uses SPAN^{®1} (Standard Portfolio Analysis of Risk). SPAN system is for the purpose of computation of on-line margins, based on the parameters defined by SEBI.

Risk Containment Measures

A. Eligibility Criteria for stock selection

The eligibility of a stock / index for trading in Derivatives segment is based upon the criteria laid down by SEBI through various circulars issued from time to time. Based on SEBI guidelines and as a surveillance measure, following criteria has been adopted by NSE for selecting stocks and indices on which Futures & Options contracts would be introduced.

1. Eligibility criteria of stocks

- The stock are to be chosen from amongst the top 500 stocks in terms of average daily market capitalization and average daily traded value in the previous six months on a rolling basis.
- The stock's median quarter-sigma order size over the last six months should be not less than ₹ 5 lakhs. For this purpose, a stock's quarter-sigma order size shall mean the order size (in value terms) required to cause a change in the stock price equal to one-quarter of a standard deviation.
- The market wide position limit (MWPL) in the stock should not be less than ₹ 100 crores. The market wide position limit (number of shares) shall be valued taking the closing prices of stocks in the underlying cash market on the date of expiry of contract in the month. The MWPL of open position (in terms of the number of underlying stock) on futures and option contracts on a particular underlying stock shall be 20% of the number of shares held by non-promoters in the relevant underlying security i.e. free-float holding.

Continued Eligibility

For an existing F&O stock, the continued eligibility criteria is that market wide position limit in the stock shall not be less than ₹ 60 crores and stock's median quarter-sigma order size over the last six months shall not be less than ₹ 2 lakhs. If an existing security fails to meet the eligibility criteria for three consecutive months, then no fresh month contract shall be issued on that security. However, the existing unexpired contracts may be permitted to trade till expiry and new strikes may also be introduced in the existing contract months. However, the existing unexpired contracts may be permitted to trade till expiry and new strikes may also be introduced in the existing contract months. Further, once the stock is excluded from the F&O list, it shall not be considered for re-inclusion for a period of one year.

Re-introduction of dropped stocks

- A stock which is dropped from derivatives trading may become eligible once again. In such instances, the stock is required to fulfill the eligibility criteria for three consecutive months to be re-introduced for derivatives trading.

Eligibility criteria of stocks for derivatives trading especially on account of corporate restructuring

The eligibility criteria of stocks for derivatives trading on account of corporate restructuring are as under:

All the following conditions should be met in the case of shares of a company undergoing restructuring through any means, for eligibility to re-introduce derivative contracts on that company from the first day of listing of the

¹ SPAN[®] is a registered trademark of the Chicago Mercantile Exchange (CME) used here under license.

post restructured company/(s)'s (as the case may be) stock (herein referred to as post restructured company) in the underlying market:

- a. the Futures and options contracts on the stock of the original (pre restructure) company were traded on any exchange prior to its restructuring;
- b. The pre restructured company had a market capitalisation of at least ₹ 1000 crores prior to its restructuring;
- c. The post restructured company would be treated like a new stock and if it is, in the opinion of the exchange, likely to be at least one-third the size of the pre restructuring company in terms of revenues, or assets, or (where appropriate) analyst valuations; and
- d. In the opinion of the exchange, the scheme of restructuring does not suggest that the post restructured company would have any characteristic (for example extremely low free float) that would render the company ineligible for derivatives trading.

If the above conditions are satisfied, then the exchange takes the following course of action in dealing with the existing derivative contracts on the pre-restructured company and introduction of fresh contracts on the post restructured company.

- a) In the contract month in which the post restructured company begins to trade, the Exchange shall introduce near month, middle month and far month derivative contracts on the stock of the restructured company.
- b) In subsequent contract months, the normal rules for entry and exit of stocks in terms of eligibility requirements would apply. If these tests are not met, the exchange shall not permit further derivative contracts on this stock and future month series shall not be introduced.

2. Eligibility criteria of Indices

- Futures & Options contracts on an index can be introduced only if 80% of the index constituents are individually eligible for derivatives trading. However, no single ineligible stock in the index shall have a weightage of more than 5% in the index. The index on which futures and options contracts are permitted shall be required to comply with the eligibility criteria on a continuous basis.
- The above criteria is applied every month, if the index fails to meet the eligibility criteria for three months consecutively, then no fresh month contract shall be issued on that index, However, the existing unexpired contracts shall be permitted to trade till expiry and new strikes may also be introduced in the existing contracts.

B. Margins Requirements

As pointed out above, one of the critical components of risk containment mechanism for F&O segment is the margining system. This is explained below:

- **Initial margin:** Margin in the F&O segment is computed by NSCCL up to client level for open positions of CMs/TMs. These are required to be paid up-front on gross basis at individual client level for client positions and on net basis for proprietary positions. NSCCL collects initial margin for all the open positions of a CM based on the margins computed by NSE-SPAN. A CM is required to ensure collection of adequate initial margin from his TMs up-front. The TM is required to collect adequate initial margins up-front from his clients.
- **Premium Margin:** In addition to Initial Margin, Premium Margin is charged at client level. This margin is required to be paid by a buyer of an option till the premium settlement is complete.
- **Assignment Margin for Options on Securities:** Assignment margin is levied in addition to initial margin and premium margin. It is required to be paid on assigned positions of CMs towards interim and final exercise settlement obligations for option contracts on individual securities, till such obligations are fulfilled. The margin is charged on the net exercise settlement value payable by a CM towards interim and final exercise settlement.



- **Exposure margins:** Clearing members are subject to exposure margins in addition to initial margins.
- **Client Margins:** NSCCL intimates all members of the margin liability of each of their client. Additionally members are also required to report details of margins collected from clients to NSCCL, which holds in trust client margin monies to the extent reported by the member as having been collected from their respective clients.

C. Exposure Monitoring and Position Limit

Another component of the risk management framework for derivatives segment is the stipulation of exposure limits and position limits on trading in different categories of contracts by market participants. These are summarized below:

	Index Options	Index Futures	Stock Options	Stock Futures
Exposure Limit	33.33 times the liquid net-worth of the member. Liquid net-worth is the total liquid assets deposited with the Exchange/Clearing Corporation towards initial margin and the capital adequacy, LESS initial margin applicable to the total gross position at any given point of time of all trades cleared through the clearing member.	33.33 times the liquid net-worth of the member.	Higher of 5% or 1.5 sigma of the notional value of gross open position.	Higher of 5% or 1.5 sigma of the notional value of gross open position.
Client Level	The gross open position for each client, across all the derivative contracts on an underlying, should not exceed 1% of free float market capitalization (in terms of number of shares) or 5% of the open interest in all derivative contracts in the same underlying stock (in terms of number of shares) whichever is higher.			
Trading Member Level	The trading member position limits in equity index option contracts is higher of ₹ 500 crore or 15% of the total open interest in the market in equity index option contracts. This limit would be applicable on open positions in all option contracts on a particular underlying index.	The trading member position limits in equity index futures contracts is higher of ₹500 crore or 15% of the total open interest in the market in equity index futures contracts. This limit is applicable on open positions in all futures contracts on a particular underlying index.	<ul style="list-style-type: none"> • For stocks having applicable market-wide position limit (MWPL) of ₹ 500 crores or more, the combined futures and options position limit is 20% of applicable MWPL or ₹ 300 crores, whichever is lower and within which stock futures position cannot exceed 10% of applicable MWPL or ₹ 150 crores, whichever is lower. • For stocks having applicable MWPL less than ₹ 500 crores, the combined futures and options position limit would be 20% of applicable MWPL and futures position cannot exceed 20% of applicable MWPL or ₹ 50 crore whichever is lower. 	

Contd.

Contd.

Market wide			The market wide limit of open position (in terms of the number of underlying stock) on futures and option contracts on a particular underlying stock should be 20% of the number of shares held by non-promoters in the relevant underlying security i.e. free-float holding. This limit is applicable on all open positions in all futures and option contracts on a particular underlying stock.
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Position limits for FII's, Mutual Funds:

Index Options	Index Futures	Stock Options	Stock Futures
₹ 500 Crore or 15% of the total open interest of the market in index options, whichever is higher. This limit would be applicable on open positions in all options contracts on a particular underlying index.	₹ 500 crores or 15% of the total open interest of the market in index futures, whichever is higher. This limit would be applicable on open positions in all futures contracts on a particular underlying index.	<ul style="list-style-type: none"> For stocks having applicable market-wide position limit (MWPL) of ₹ 500 crores or more, the combined futures and options position limit is 20% of applicable MWPL or ₹ 300 crores, whichever is lower and within which stock futures position cannot exceed 10% of applicable MWPL or ₹ 150 crores, whichever is lower. 	
In addition to the above, FII's & MF's can take exposure in equity index derivatives subject to the following limits: a) Short positions in index derivatives (short futures, short calls and long puts) not exceeding (in notional value) the FII's / MF's holding of stocks. b) Long positions in index derivatives (long futures, long calls and short puts) not exceeding (in notional value) the FII's / MF's holding of cash, government securities, T-Bills and similar instruments.		<ul style="list-style-type: none"> For stocks having applicable market-wide position limit (MWPL) less than ₹ 500 crores, the combined futures and options position limit is 20% of applicable MWPL and futures position cannot exceed 20% of applicable MWPL or ₹ 50 crore whichever is lower. 	

NSE – SPAN

The objective of NSE-SPAN is to identify overall risk in a portfolio of all futures and options contracts for each member. The system treats futures and options contracts uniformly, while at the same time recognising the unique exposures associated with options portfolios, like extremely deep out-of-the-money short positions and inter-month risk.

Its over-riding objective is to determine the largest loss that a portfolio might reasonably be expected to suffer from one day to the next day based on 99% VaR methodology.

SPAN considers uniqueness of option portfolios. The following factors affect the value of an option:

- Underlying market price.
- Volatility (variability) of underlying instrument, and
- Time to expiration.



As these factors change, the value of options maintained within a portfolio also changes. Thus, SPAN constructs scenarios of probable changes in underlying prices and volatilities in order to identify the largest loss a portfolio might suffer from one day to the next. It then sets the margin requirement to cover this one-day loss.

The complex calculations (e.g. the pricing of options) in SPAN are executed by NSCCL. The results of these calculations are called risk arrays. Risk arrays, and other necessary data inputs for margin calculation are provided to members daily in a file called the SPAN Risk Parameter file. Members can apply the data contained in the Risk Parameter files, to their specific portfolios of futures and options contracts, to determine their SPAN margin requirements.

Hence, members need not execute a complex option pricing calculation, which is performed by NSCCL. SPAN has the ability to estimate risk for combined futures and options portfolios, and also re-value the same under various scenarios of changing market conditions.

NSCCL generates six risk parameter files for a day taking into account price and volatilities at various time intervals and are provided on the website of the Exchange.

Market Design for Currency Futures

The contract specification for US Dollars – Indian Rupee (USDINR), Euro – Indian Rupee (EURINR), Pound – Indian Rupee (GBPINR) and Japanese Yen – Indian Rupee (JPYINR) is summarized in the table below.

Symbol	USDINR	EURINR	GBPINR	JPYINR
Market Type	Normal	Normal	Normal	Normal
Instrument Type	FUTCUR	FUTCUR	FUTCUR	FUTCUR
Unit of trading	1 - 1 unit denotes 1000 USD.	1 - 1 unit denotes 1000 EURO.	1 - 1 unit denotes 1000 POUND STERLING.	1 - 1 unit denotes 100000 JAPANESE YEN.
Underlying / Order Quotation	The exchange rate in Indian Rupees for US Dollars	The exchange rate in Indian Rupees for Euro.	The exchange rate in Indian Rupees for Pound Sterling.	The exchange rate in Indian Rupees for 100 Japanese Yen.
Tick size	0.25 paise or INR 0.0025			
Trading hours	Monday to Friday 9:00 a.m. to 5:00 p.m.			
Contract trading cycle	12 month trading cycle.			
Last trading day	Two working days prior to the last business day of the expiry month at 12 noon.			
Final settlement day	Last working day (excluding Saturdays) of the expiry month. The last working day will be the same as that for Interbank Settlements in Mumbai.			
Quantity Freeze	10,001 or greater			
Base price	Theoretical price on the 1st day of the contract. On all other days, Daily Settlement Price (DSP) of the contract.	Theoretical price on the 1st day of the contract. On all other days, DSP of the contract.	Theoretical price on the 1st day of the contract. On all other days, DSP of the contract.	Theoretical price on the 1st day of the contract. On all other days, DSP of the contract.

Contd.

Contd.

Symbol		USDINR	EURINR	GBPINR	JPYINR
Price operating range	Tenure up to 6 months	+/-3 % of base price.			
	Tenure greater than 6 months	+/- 5% of base price.			
Position limits	Clients	higher of 6% of total open interest or USD 10 million	higher of 6% of total open interest or EURO 5 million	higher of 6% of total open interest or GBP 5 million	higher of 6% of total open interest or JPY 200 million
	Trading Members	higher of 15% of the total open interest or USD 50 million	higher of 15% of the total open interest or EURO 25 million	higher of 15% of the total open interest or GBP 25 million	higher of 15% of the total open interest or JPY 1000 million
	Banks	higher of 15% of the total open interest or USD 100 million	higher of 15% of the total open interest or EURO 50 million	higher of 15% of the total open interest or GBP 50 million	higher of 15% of the total open interest or JPY 2000 million
Initial margin		SPAN Based Margin			
Extreme loss margin		1% of MTM value of gross open position	0.3% of MTM value of gross open position	0.5% of MTM value of gross open position	0.7% of MTM value of gross open position
Calendar spreads		₹ 400 for spread of 1 month	₹ 700 for spread of 1 month	₹ 1500 for spread of 1 month	₹ 600 for spread of 1 month
		₹ 500 for spread of 2 months	₹ 1000 for spread of 2 months	₹ 1800 for spread of 2 months	₹ 1000 for spread of 2 months
		₹ 800 for spread of 3 months	₹1500 for spread of 3 months and more	₹ 2000 for spread of 3 months and more	₹ 1500 for spread of 3 months and more
		₹ 1000 for spread of 4 months and more			
Settlement		Daily settlement : T + 1 Final settlement : T + 2			
Mode of settlement		Cash settled in Indian Rupees			
Daily settlement price (DSP)		Calculated on the basis of the last half an hour weighted average price.			
Final settlement price (FSP)		RBI reference rate	RBI reference rate	Exchange rate published by RBI in its Press Release captioned RBI reference Rate for US\$ and Euro	Exchange rate published by RBI in its Press Release captioned RBI reference Rate for US\$ and Euro

Currency derivatives have been launched on the NSE in August, 2008. The market design, including the risk management framework for this new product is summarized below:



Eligibility criteria

The following entities are eligible to apply for membership subject to the regulatory norms and provisions of SEBI and as provided in the Rules, Regulations, Byelaws and Circulars of the Exchange –

- a. Individuals;
- b. Partnership Firms registered under the Indian Partnership Act, 1932;
- c. Corporations, Companies or Institutions or subsidiaries of such Corporations, Companies or Institutions set up for providing financial services;
- d. Such other person as may be permitted under the Securities Contracts (Regulation) Rules 1957.

Professional Clearing Member (PCM)

The following persons are eligible to become PCMs of NSCCL for Currency Futures Derivatives provided they fulfill the prescribed criteria:

- a. SEBI Registered Custodians; and
- b. Banks recognised by NSEIL/NSCCL for issuance of bank guarantees

Banks authorized by the Reserve Bank of India under section 10 of the Foreign Exchange Management Act, 1999 as 'AD Category - I bank' are permitted to become trading and clearing members of the currency futures market of the recognized stock exchanges, on their own account and on behalf of their clients, subject to fulfilling the following minimum prudential requirements:

- a. Minimum net worth of ₹ 500 crores.
- b. Minimum CRAR of 10 per cent.
- c. Net NPA should not exceed 3 per cent.
- d. Made net profit for last 3 years.

The AD Category - I banks which fulfill the prudential requirements are required to lay down detailed guidelines with the approval of their Boards for trading and clearing of currency futures contracts and management of risks.

AD Category - I banks which do not meet the above minimum prudential requirements and AD Category - I banks which are Urban Co-operative banks or State Co-operative banks can participate in the currency futures market only as clients, subject to approval therefore from the respective regulatory Departments of the Reserve Bank of India.

Other applicable eligibility criteria

- a. Where the applicant is a partnership firm, the applicant shall identify a Dominant Promoter Group as per the norms of the Exchange at the time of making the application. Any change in the shareholding of the partnership firm including that of the said Dominant Promoter Group or their shareholding interest shall be effected only with the prior permission of NSEIL/SEBI.
- b. At any point of time, the applicant has to ensure that at least individual/one partner/one designated director/compliance officer would have a valid NCFM certification as per the requirements of the Exchange. The above norm would be a continued admittance norm for membership of the Exchange.
- c. An applicant must be in a position to pay the membership and other fees, deposits etc, as applicable at the time of admission within three months of intimation to him of admission as a Trading Member or as per the time schedule specified by the Exchange.
- d. The trading members and sales persons in the currency futures market must have passed a certification programme which is considered adequate by SEBI.

- e. FIIs and NRIs are not allowed to trade in currency futures market.
- f. Strict enforcement of “Know your customer” rule and it requires that every client shall be registered with the derivatives broker. The members of the derivatives segment are also required to make their clients aware of the risks involved in derivatives trading by issuing to the client the Risk Disclosure Document and obtain a copy of the same duly signed by the client.
- g. The Exchange may specify such standards for investor service and infrastructure with regard to any category of applicants as it may deem necessary, from time to time.

Position limits

Clearing members are subject to the following position limits:

Currency Pairs	Client level position limits	Non-bank trading member level limits	Bank trading member level limits
USDINR	higher of 6% of total open interest or USD 10 million	higher of 15% of the total open interest or USD 50 million	higher of 15% of the total open interest or USD 100 million
EURINR	higher of 6% of total open interest or EUR 5 million	higher of 15% of the total open interest or EUR 25 million	higher of 15% of the total open interest or EUR 50 million
GBPINR	higher of 6% of total open interest or GBP 5 million	higher of 15% of the total open interest or GBP 25 million	higher of 15% of the total open interest or GBP 50 million
JPYINR	higher of 6% of total open interest or JPY 200 million	higher of 15% of the total open interest or JPY 1000 million	higher of 15% of the total open interest or JPY 2000 million

Margins

NSCCL has developed a comprehensive risk containment mechanism for the Currency derivatives segment. The most critical component of a risk containment mechanism for NSCCL is the online position monitoring and margining system. The actual margining and position monitoring is done on-line, on an intra-day basis. NSCCL uses the SPAN® system for the purpose of margining, which is a portfolio based system.

- **Initial Margins:** NSCCL collects initial margin up-front for all the open positions of a CM based on the margins computed by NSCCL-SPAN®. A CM is in turn required to collect the initial margin from the TMs and his respective clients. Similarly, a TM is required to collect upfront margins from his clients. Initial margin requirements are based on 99% value at risk over a one day time horizon. However, in the case of futures contracts, where it may not be possible to collect mark to market settlement value, before the commencement of trading on the next day, the initial margin is computed over a two-day time horizon, applying the appropriate statistical formula.
- **Extreme Loss margins:** In addition to initial margins, clearing members are subject to extreme loss margins. The applicable extreme loss margin on the mark to market value of the gross open positions is as follows or as may be specified by the relevant authority from time to time.

USDINR	EURINR	GBPINR	JPYINR
1% of the value of gross open position	0.3% of the value of gross open position	0.5% of the value of gross open position	0.7% of the value of gross open position

Market Design for Interest Rate Futures

Eligibility Criteria

The following entities are eligible to apply for membership subject to the regulatory norms and provisions of SEBI and as provided in the Rules, Regulations, Byelaws and Circulars of the Exchange:



- Existing members who are registered either in Currency Derivatives Segment or Futures & Options (F&O) Segment shall be eligible to trade in IRF, subject to meeting the Balance Sheet net worth requirement of ₹ 100 lakhs for Trading Membership and ₹ 1000 lakhs in Trading cum Clearing Membership.
- New members interested in participating in IRF would be required to get registered in Currency Derivatives Segment of the Exchange in order to trade in IRF.

The contract specifications of Interest Rate Futures are as follows:

Symbol	10YGS7	
Market Type	Normal	
Instrument Type	FUTIRD	
Unit of trading	1 lot - 1 lot is equal to notional bonds of FV ₹ 2 lacs	
Underlying	10 Year Notional Coupon bearing Government of India (GOI) security. (Notional Coupon 7% with semi annual compounding.)	
Tick size	₹ 0.0025	
Trading hours	Monday to Friday 9:00 a.m. to 5:00 p.m.	
Contract trading cycle	Four fixed quarterly contracts for entire year ending March, June, September and December.	
Last trading day	Two business days prior to the last working day of the delivery/expiry month.	
Quantity Freeze	1251 lots or greater	
Base price	Theoretical price of the 1st day of the contract. On all other days, DSP of the contract.	
Price operating range	+/- 5% of the base price	
Position limits	Clients 6% of total open interest or ₹ 300 crores whichever is higher	Trading Members 15% of the total open interest or ₹ 1000 crores whichever is higher
Initial margin	SPAN Based Margin	
Extreme loss margin	0.3% of the value of the gross open positions of the futures contract.	
Settlement	Daily settlement MTM: T + 1 in cash Delivery settlement: Last business day of the expiry month.	
Daily settlement price	Closing price or Theoretical price.	
Delivery Settlement		
Mode of settlement	Daily Settlement in Cash	
Deliverable Grade Securities	GOI securities	
Conversion Factor	The conversion factor would be equal to the price of the deliverable security (per rupee of principal) on the first calendar day of the delivery month, to yield 7% with semiannual compounding	
Invoice Price	Daily Settlement price times a conversion factor + Accrued Interest	
Delivery day	Last business day of the expiry month	
Intent to Deliver	Two business days prior to the delivery settlement day.	

Clearing and Settlement

National Securities Clearing Corporation Limited (NSCCL) is the clearing and settlement agency for all deals executed in Interest Rate Futures. NSCCL acts as legal counter-party to all deals on Interest Rate Futures contract and guarantees settlement.

A Clearing Member (CM) of NSCCL has the responsibility of clearing and settlement of all deals executed by Trading Members (TM) on NSE, who clear and settle such deals through them. A multilateral netting procedure is adopted to determine the net settlement obligations (delivery/receipt positions) of the clearing members. Accordingly, a clearing member would have either pay-in or pay-out obligations for funds and securities separately.

For IRF, settlement is done at two levels: mark-to-market (MTM) settlement which is done on a daily basis and final settlement which happens on any day in the expiry month. Final settlement involves physical delivery of the bond can happen only the expiry dates.

Daily Mark-to-Mark Settlement: The positions in the futures contracts for each member are marked-to-market to the daily settlement price of the futures contracts at the end of each trade day. The profits/ losses are computed as the difference between the trade price or the previous day's settlement price and the current day's settlement price. The CMs who have suffered a loss are required to pay the mark-to-market loss amount to NSCCL which is passed on to the members who have made a profit. This is known as daily mark-to-market settlement.

Daily mark-to-market settlement in respect of admitted deals in Interest rate futures contracts is cash settled by debit/ credit of the clearing accounts of clearing members with the respective clearing bank.

Delivery Settlement: Trades in interest rate futures are physically settled by delivery of Govt. securities in the expiry month. The expiry month of the respective futures contract shall be the delivery month. The delivery settlement day of for Interest Rate Futures contract shall be last business day of the delivery month.

Margins

Initial Margin: Initial margin is payable on all open positions of Clearing Members, up to client level, and on an upfront basis by Clearing Members in accordance with the margin computation mechanism and/or system. Initial Margin includes SPAN margins and such other additional margins. The minimum initial margin is 2.33% on the first day of Interest Rate Futures trading and 1.6% thereafter will be scaled up by look ahead period as may be specified by the Clearing Corporation from time to time.

Initial margin requirements are based on 99% value at risk over a one day time horizon. However, in the case of futures contracts, where it may not be possible to collect mark to market settlement, before the commencement of trading on the next day, the initial margin is computed over a two day time horizon by applying an appropriate statistical formula.

The risk parameters are updated 6 times in the day, based on the prices/yield at 11:00 a.m., 12:30 p.m., 2:00 p.m., 3:30 p.m., end of the day and beginning of the day. For the purpose of intra-day updation, the yield of the benchmark 10-Year security as published by FIMMDA, from the NDS Order Matching platform are used.

Extreme Loss Margin: Clearing members would be subjected to extreme loss margins in addition to initial margins. The applicable extreme loss margin would be 0.3% of the value of the gross open positions of the futures contract or as may be specified by the relevant authority from time to time.

Delivery margins: Once the positions are intended for delivery and allocation has been done, the following margins are levied:

- Margin equal to VaR on the futures contract on the invoice price plus 5% on the face value of the security to be delivered
- Mark to market loss based on the underlying closing price of the security intended for delivery.

The above margins are levied on both buyer and seller at a client level and aggregated at clearing member level. The margins are levied from the intention day and released on completion of the settlement.



Non-Intent Margins: In cases where the positions are open at end of last trading day and no intention to deliver has been received, the following margins are levied:

- Margin equal to VaR on the futures contract on the invoice price of the costliest to deliver security from the deliverable basket plus 5% on the face value of the open positions
- Mark to market loss based on the underlying closing price of the costliest to deliver security from the deliverable basket.

The above margins are levied on both buyer and seller at a client level and aggregated at clearing member level. The margins are levied from the last trading day till the day of receipt of intention to deliver, following which the margins on delivery positions are levied.

Imposition of additional margins: As a risk containment measure, the Clearing Corporation may require clearing members to make payment of additional margins as may be decided from time to time. This is in addition to the initial margin and extreme loss margin, which are or may have been imposed from time to time.

Settlement of contracts

- The contract will be settled by physical delivery of deliverable grade securities using the electronic book entry system of the existing Depositories, namely, National Securities Depositories Ltd. and Central Depository Services (India) Ltd. and Public Debt Office of the Reserve Bank.
- NSE has constituted a group of market participants to advise the Exchange/Clearing Corporation on the securities which may be included in the deliverable basket. Based on the recommendations of this group, it has been decided that Govt securities maturing at least 8 years but not more than 12 years from the first day of the delivery month with minimum total outstanding stock of ₹ 10,000 crore will be eligible deliverable grade securities.

Interest Rate Futures (RBI) Directions, 2009

The Reserve Bank of India (RBI) issued Interest Rate Futures (Reserve Bank) Directions, 2009, on August 28, 2009, covering the framework for trading of IRFs in recognized exchanges for persons dealing in the instrument. The highlights of the directions are:

- These directions define the Interest Rate futures product; list out the permitted instruments and features of the product.
- Foreign Institutional Investors, registered with Securities and Exchange Board of India, have been permitted to purchase or sell Interest Rate Futures subject to the condition that the total gross long (bought) position in cash and Interest Rate Futures markets taken together does not exceed their individual permissible limit for investment in government securities and the total gross short (sold) position, for the purpose of hedging only, does not exceed their long position in the government securities and in Interest Rate Futures at any point in time.
- No scheduled bank or such other agency falling under the regulatory purview of the Reserve Bank under the Reserve Bank of India Act, 1934, the Banking Regulation Act, 1949 or any other Act or instrument having the force of law is allowed to participate in the Interest Rate Futures market without the permission from the respective regulatory Department of the Reserve Bank.
- The agencies falling under the regulatory purview of any other regulator established by law are not allowed to participate in Interest Rate Futures market except with the permission of their respective regulators and participation of such agencies as members or clients will be in accordance with the guidelines issued by the regulator concerned.

Market Outcome

Trading Volumes

Following a tumultuous growth in turnover in 2008-09, NSE's derivatives market volume bounced back in 2009-10 with a staggering year-on-year growth of 81% (Table 6-5). NSE further strengthened its dominance in the derivatives segment

in 2009-10 with a share of 99.998% of the total turnover in this segment. The share of BSE in the total derivative markets turnover fell from 0.11% in 2008-09 to 0.0013% in 2009-10. The total turnover of NSE in the derivative segment jumped by 50% during the first-half of 2010-11 compared to the corresponding period in the previous fiscal.

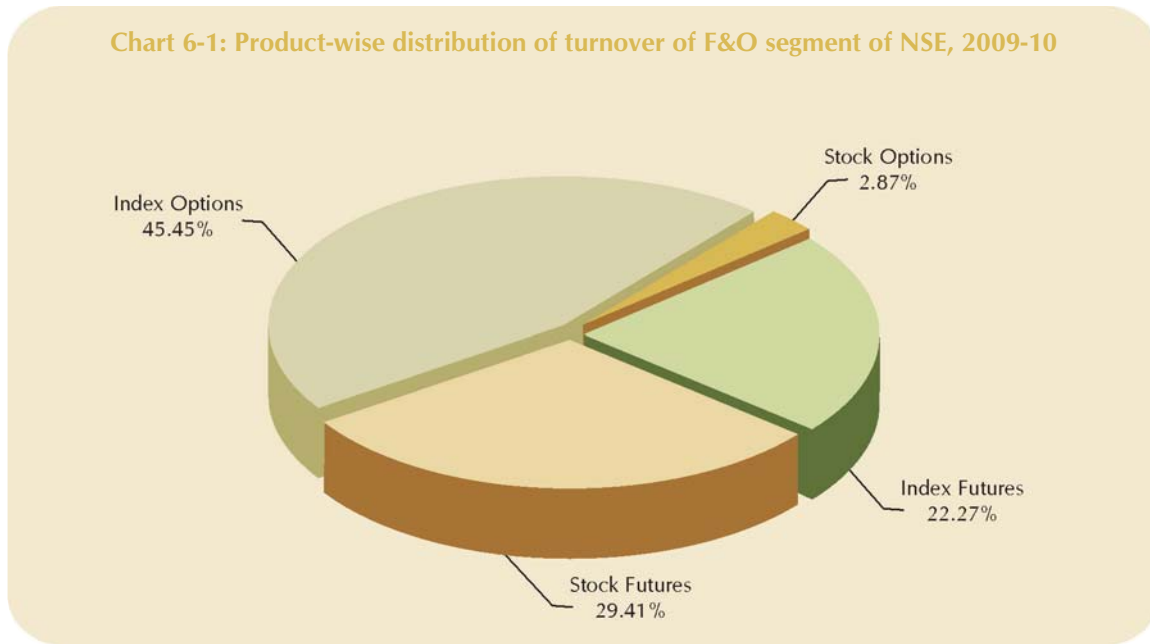
Table 6-5: Trade Details of Derivatives Market

Month/Year	NSE			BSE			TOTAL		
	No. of Contracts Traded	Turnover (₹ mn)	Turnover (US\$ million)	No. of Contracts Traded	Turnover (₹ mn)	Turnover (US\$ million)	No. of Contracts Traded	Turnover (₹ mn)	Turnover (US\$ million)
2003-04	56,886,776	21,306,492	491,046	382,258	124,520	2,870	57,269,034	21,431,012	493,916
2004-05	77,017,185	25,470,526	582,183	531,719	161,120	3,683	77,548,904	25,631,646	585,866
2005-06	157,619,271	48,242,504	1,081,428	103	60	1.34	157,619,374	48,242,564	1,081,429
2006-07	216,883,573	73,562,714	1,687,605	1,545,169	590,060	13,537	218,428,742	74,152,774	1,701,142
2007-08	425,013,200	130,904,779	3,275,076	7,453,371	2,423,080	60,622	432,466,571	133,327,859	3,335,698
2008-09	657,390,497	110,104,822	2,161,037	515,588	122,660	2,407	657,906,085	110,227,482	2,163,444
Apr-09	56,210,317	11,433,625	253,293	113	20	0.44	56,210,430	11,433,645	253,293
May-09	48,285,515	12,272,524	271,877	393	80	1.77	48,285,908	12,272,604	271,879
Jun-09	52,408,197	15,319,804	339,384	5	0	0.00	52,408,202	15,319,804	339,384
Jul-09	66,827,086	15,735,090	348,584	4	0.9	0.02	66,827,090	15,735,091	348,584
Aug-09	59,670,387	14,736,460	326,461	1	0.2	0.00	59,670,388	14,736,460	326,461
Sep-09	52,501,332	13,883,780	307,572	1	0.3	0.01	52,501,333	13,883,780	307,572
Oct-09	55,709,794	15,104,180	334,607	0	0	0.00	55,709,794	15,104,180	334,607
Nov-09	62,765,075	16,618,160	368,147	1	0.3	0.01	62,765,076	16,618,160	368,147
Dec-09	55,424,003	15,249,820	337,834	147	38.3	0.85	55,424,150	15,249,858	337,835
Jan-10	53,101,821	14,902,970	330,150	7935	2097.1	46.46	53,109,756	14,905,067	330,196
Feb-10	60,429,963	15,698,770	347,780	399	96.7	2.14	60,430,362	15,698,867	347,782
Mar-10	55,960,432	15,681,480	347,397	29	7.5	0.17	55,960,461	15,681,488	347,397
2009-10	679,293,922	176,636,663	3,913,085	9028	2341.3	51.867523	679,302,950	176,639,004	3,913,137
Apr-10	58,230,570	16,716,200	372,133	54	10	0.22	58,230,624	16,716,210	372,133
May-10	80,960,515	21,244,960	472,951	158	40	0.89	80,960,673	21,245,000	472,952
Jun-10	77,078,089	20,355,990	453,161	93	20	0.45	77,078,182	20,356,010	453,161
Jul-10	67,756,807	18,299,100	407,371	40	10	0.22	67,756,847	18,299,110	407,371
Aug-10	73,712,025	20,537,280	457,197	114	30	0.67	73,712,139	20,537,310	457,197
Sep-10	93,089,649	27,363,920	609,170	122	40	0.89	93,089,771	27,363,960	609,171
(April-September 2010)	450,827,655	124,517,450	2,771,982	581	150	3	450,828,236	124,517,600	2,771,986

Source : SEBI



Chart 6-1: Product-wise distribution of turnover of F&O segment of NSE, 2009-10



Index options was the clear leader in the product-wise turnover of futures and options segment in NSE during 2009-10 (Table 6-6 & Chart 6-1). The turnover in the index options category was 45.45% of the total turnover in the F&O segment of NSE, followed by stock futures and index futures which saw a y-o-y growth of 29.41% and 22.27% respectively. This trend continued in the first-half of 2010-11 with Index options constituting around 58% of the total turnover in this segment. The turnover of index options zoomed by 111% during the first-half of 2010-11 compared to the corresponding period in the previous fiscal.

Open Interest

Open interest is the total number of open contracts on a security, that is, the number of future contracts or options contracts that have not been exercised, expired or fulfilled by delivery. Hence, we can say that the open interest position at the end of each day represents the net increase or decrease in the number of contracts for that day. Increasing open interest means that fresh funds are flowing in the market, while declining open interest means that the market is liquidating. The highest open interest in index futures at NSE was recorded at 8,84,082 contracts on April 15, 2009. The daily open interest for near month index futures at NSE is depicted in Chart 6-2.

Implied Interest Rate

In the futures market, implied interest rate or cost of carry is often used inter-changeably. Cost of carry is more appropriately used for commodity futures, as by definition it means the total costs required to carry a commodity or any other good forward in time. The costs involved are storage cost, insurance cost, transportation cost and the financing cost. In case of equity futures, the cost of carry is the cost of financing minus the dividend returns. Assuming zero dividends, the only relevant factor is the cost of financing.

Implied interest rate is the percentage difference between the future value of an index and the spot value, annualized on the basis of the number of days before the expiry of the contract. Cost of carry or implied interest rate plays an important role in determining the price differential between the spot and the futures market. The degree of relative costliness of a future rate can be assessed by comparing the implied rate with the spot rate. Implied interest rate is also a measure of profitability of an arbitrage position. Theoretically, if the futures price is less than the spot price plus cost of carry or if the futures price is greater than the spot price plus cost of carry, arbitrage opportunities exist.

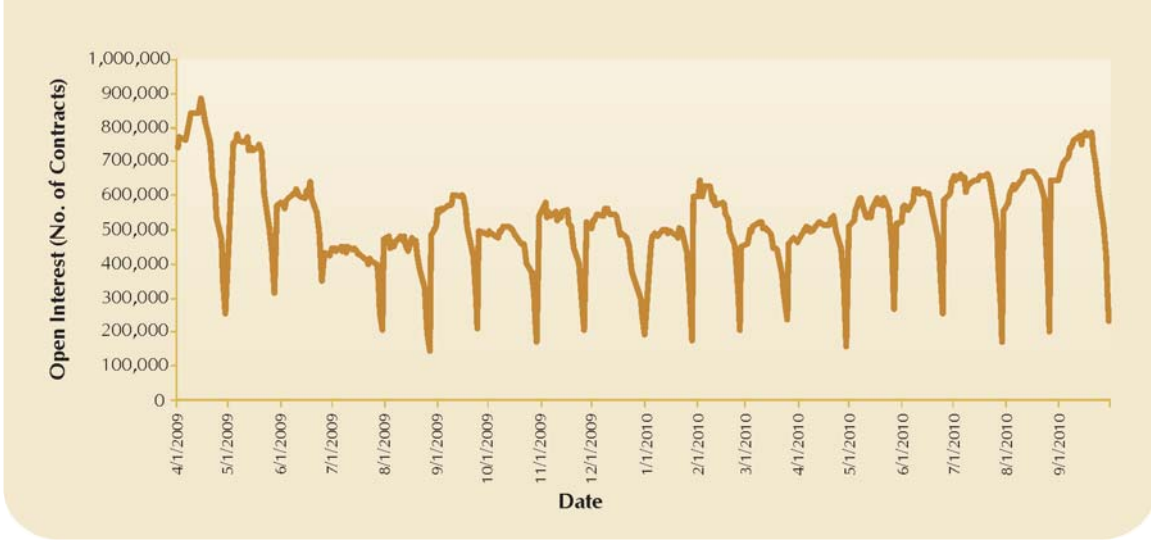
Table 6-6: Product wise turnover on the derivatives segment of NSE

Year	Index Futures			Stock Futures			Index Options			Stock Options			Total			Average Daily Turnover (₹ mn.)
	No. of con-tracts	Turnover (₹ mn.)	% share in total turn-over	No. of con-tracts	Turnover (₹ mn.)	% share in total turn-over	No. of con-tracts	Notional Turnover (₹ mn.)	% share in total turn-over	No. of con-tracts	Notional Turnover (₹ mn.)	% share in total turn-over	No. of con-tracts	Turnover (₹ mn.)		
2004-05	21,635,449	7,721,470	30.32	47,043,066	14,840,560	58.27	3,293,558	1,219,430	4.79	5,045,112	1,688,360	6.63	77,017,185	25,469,820	101,070	
2005-06	58,537,886	15,137,550	31.38	80,905,493	27,916,970	57.87	12,935,116	3,384,690	7.02	5,240,776	1,802,530	3.74	157,619,271	48,241,740	192,200	
2006-07	81,487,424	25,395,740	34.52	104,955,401	38,309,670	52.08	25,157,438	7,919,060	10.77	5,283,310	1,937,950	2.63	216,883,573	73,562,420	295,430	
2007-08	156,598,579	38,206,673	29.19	203,587,952	75,485,632	57.66	55,366,038	13,621,109	10.41	9,460,631	3,591,366	2.74	425,013,200	130,904,779	521,533	
2008-09	210,428,103	35,701,114	32.42	221,577,980	34,796,421	31.60	212,088,444	37,315,018	33.89	13,295,970	2,292,268	2.08	657,390,497	110,104,822	453,106	
Apr-09	18,662,382	3,017,641	26.39	9,858,642	3,563,831	31.17	26,881,970	4,537,882	39.69	807,323	314,271	2.75	56,210,317	11,433,625	672,566	
May-09	16,617,516	3,174,152	25.86	9,528,178	4,481,548	36.52	21,495,541	4,305,147	35.08	644,280	311,679	2.54	48,285,515	12,272,525	613,626	
Jun-09	16,207,959	3,469,341	22.65	11,127,649	5,896,575	38.49	24,189,642	5,456,433	35.62	882,947	497,455	3.25	52,408,197	15,319,804	696,355	
Jul-09	18,271,805	3,829,237	24.34	15,500,535	4,506,318	28.64	31,786,743	7,012,472	44.57	1,268,003	387,065	2.46	66,827,086	15,735,092	684,134	
Aug-09	16,892,217	3,663,120	24.86	13,113,118	4,123,625	27.98	28,535,857	6,587,569	44.70	1,129,195	362,144	2.46	59,670,387	14,736,457	701,736	
Sep-09	13,032,242	3,024,249	21.78	13,157,621	4,341,193	31.27	25,074,041	6,090,756	43.87	1,237,428	427,582	3.08	52,501,332	13,883,780	694,189	
Oct-09	13,615,447	3,296,097	21.82	14,044,526	4,658,293	30.84	26,671,252	6,695,910	44.33	1,378,569	453,873	3.00	55,709,794	15,104,174	755,209	
Nov-09	15,178,552	3,635,228	21.88	13,260,546	4,382,198	26.37	32,965,274	8,164,078	49.13	1,360,703	436,655	2.63	62,765,075	16,618,160	830,908	
Dec-09	13,337,833	3,294,962	21.61	11,307,332	3,959,538	25.96	29,525,940	7,566,771	49.62	1,252,898	428,553	2.81	55,424,003	15,249,823	726,182	
Jan-10	12,056,359	2,988,492	20.05	12,546,679	4,441,338	29.80	27,084,605	6,958,600	46.69	1,414,178	514,538	3.45	53,101,821	14,902,968	784,367	
Feb-10	13,891,843	3,268,708	20.82	10,725,789	3,544,846	22.58	34,588,704	8,472,358	53.97	1,223,627	412,853	2.63	60,429,963	15,698,765	784,938	
Mar-10	10,542,734	2,682,661	17.11	11,420,625	4,053,164	25.85	32,579,954	8,431,667	53.77	1,417,119	513,983	3.28	55,960,432	15,681,475	746,737	
2009-10	178,306,889	39,343,887	22.27	145,591,240	51,952,466	29.41	341,379,523	80,279,642	45.45	14,016,270	5,060,652	2.87	679,293,922	176,636,647	723,921	
Apr-10	10,785,388	2,795,723	16.72	11,418,975	4,098,443	24.52	34,076,343	9,054,723	54.17	1,949,864	767,311	4.59	58,230,570	16,716,200	835,810	
May-10	16,843,664	3,956,127	18.62	13,886,580	4,315,930	20.32	47,891,402	12,174,576	57.31	2,338,869	798,324	3.76	80,960,515	21,244,957	1,011,665	
Jun-10	15,434,326	3,722,657	18.29	14,156,191	4,218,432	20.72	45,209,562	11,699,430	57.47	2,278,010	715,472	3.51	77,078,089	20,355,990	925,272	
Jul-10	11,530,614	2,894,232	15.82	14,877,996	4,234,219	23.14	38,889,013	10,433,544	57.02	2,459,184	737,105	4.03	67,756,807	18,299,100	831,777	
Aug-10	11,566,700	2,991,305	14.57	16,620,194	4,962,667	24.16	42,436,984	11,574,656	56.36	3,088,147	1,008,648	4.91	73,712,025	20,537,276	933,513	
Sep-10	13,736,522	3,838,716	14.03	17,865,765	5,555,810	20.30	58,164,047	16,884,692	61.70	3,323,315	1,084,701	3.96	93,089,649	27,363,918	1,303,044	
(April-September 10)	79,897,214	20,198,760	16.22	88,825,701	27,385,501	21.99	266,667,351	71,821,621	57.68	15,437,389	5,111,560	4.11	450,827,655	124,517,441	972,793	

Source : NSE

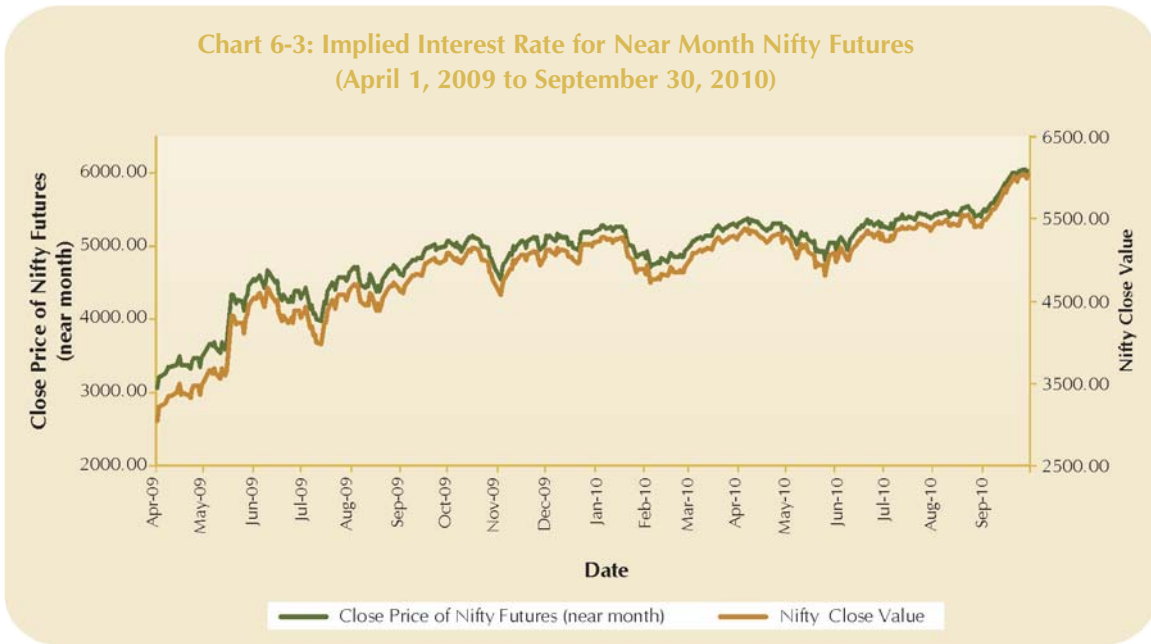


Chart 6-2: Daily Open Interest for Near Month Nifty Futures for April 2009-September 2010



Daily implied interest rate for Nifty 50 futures from April 2009 to September 2010 is presented in chart 6-3. The implied interest rate for near month Nifty 50 futures as on last trading day of the month is presented in table 6-7. The futures prices are available for different contracts at different points of time. Chart 6-4 presents Nifty 50 futures close prices for the near month contracts, and the spot Nifty 50 close values from April 2009 to September 2010. The difference between the future and the spot price is called *basis*. As the time to expiration approaches, the basis gets reduced.

Chart 6-3: Implied Interest Rate for Near Month Nifty Futures (April 1, 2009 to September 30, 2010)



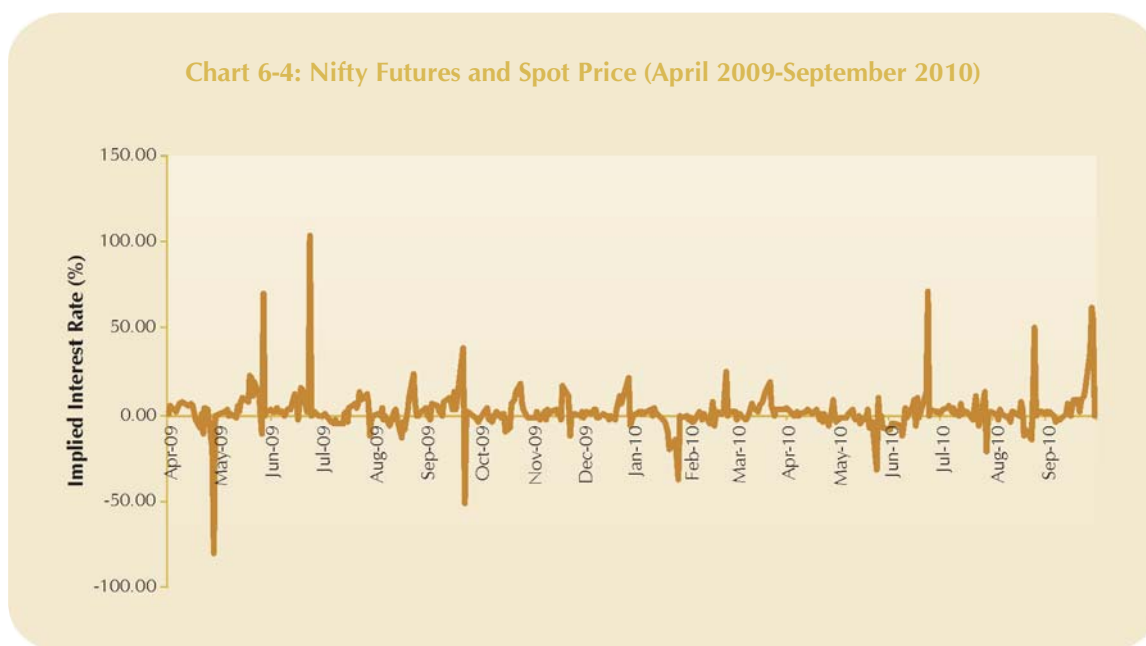


Table 6-7: Implied Interest Rate for Near Month Nifty Futures (April 2009 - September 2010)

Month	Expiry Date of near month Contract	Closing Future Price	Closing Spot Price	Implied Interest Rate (%)
Apr-09	29-Apr-2009	3473.90	3473.95	1.81
May-09	28-May-2009	4453.50	4448.95	1.38
Jun-09	25-Jun-2009	4289.75	4291.10	-0.38
Jul-09	30-Jul-2009	4636.05	4636.45	-0.12
Aug-09	27-Aug-2009	4673.40	4662.10	3.68
Sep-09	24-Sep-2009	5073.55	5083.95	-2.58
Oct-09	29-Oct-2009	4707.75	4711.70	-1.13
Nov-09	26-Nov-2009	5029.90	5032.70	-0.66
Dec-09	31-Dec-2009	5202.30	5201.05	2.21
Jan-10	28-Jan-2010	4875.65	4882.05	-1.77
Feb-10	25-Feb-2010	4930.35	4922.30	2.21
Mar-10	25-Mar-2010	5261.60	5249.10	2.99
Apr-10	29-Apr-2010	5262.80	5278.00	-3.90
May-10	27-May-2010	5056.20	5086.30	-9.03
Jun-10	24-Jun-2010	5316.25	5312.50	0.89
Jul-10	29-Jul-2010	5374.30	5367.60	1.69
Aug-10	26-Aug-2010	5403.70	5402.40	0.29
Sep-10	30-Sep-2010	6030.00	6029.95	7.22

Source: NSE.

Note: (1) The implied interest rate is calculated on the last trading day of the month for Near Month Nifty Futures

(2) Number of days in a year have been taken as 365



Implied Volatility

Volatility is one of the important factors, which is taken into account while pricing options. It is a measure of the amount and the speed of price change. To estimate future volatility, a time-series analysis of historical volatility may be carried out to know the future movements of the underlying. Alternatively, one could work out implied volatility by entering all parameters into an option pricing model and then solving it for volatility. For example, the Black Scholes model solves for the fair price of the option by using the following parameters—days to expiry, strike price, spot price, and volatility of underlying, interest rate and dividend. This model could be used in reverse to arrive at implied volatility by putting the current price of the option prevailing in the market.

Putting it simply implied volatility is the estimate of how volatile the underlying will be from the present until the expiry of option. If volatility is high, then the options premiums are relatively expensive and vice-versa. However, implied volatility estimate can be biased, especially if they are based upon options that are thinly traded samples.

Settlement

All derivative contracts are currently cash settled. During 2009-10, the cash settlement amounted to ₹ 7,69,428 million, compared to that of ₹ 9,18,400 million in 2008-09. During the first-half of 2010-11, the cash settlement amounted to ₹ 3,42,031 million. The detail of the settlement statistics in the F&O segment is presented in table 6-8.

Table 6-8: Settlement Statistics in F&O Segment

Month/Year	(In ₹ mn)				Total	(In US \$ mn) Total
	Index/Stock Futures		Index/Stock Options			
	MTM Settlement	Final Settlement	Premium Settlement	Exercise Settlement		
2006-07	613,137	7,975	31,944	11,888	664,945	15,255
2007-08	1,446,547	13,121	67,602	37,923	1,565,193	39,159
2008-09	751,936	14,983	109,605	41,876	918,400	18,026
Apr-09	48,555	2,736	9,445	4,948	65,685	1,455
May-09	78,178	1,412	12,892	10,689	103,171	2,286
Jun-09	69,607	1,575	9,158	5,730	86,070	1,907
Jul-09	61,088	1,086	10,659	2,178	75,011	1,662
Aug-09	50,224	369	8,941	1,249	60,783	1,347
Sep-09	32,433	658	8,482	2,141	43,713	968
Oct-09	47,059	1,803	6,967	1,406	57,235	1,268
Nov-09	53,129	1,486	8,703	1,739	65,057	1,441
Dec-09	39,551	586	9,548	3,326	53,011	1,174
Jan-10	47,590	1,076	7,622	1,889	58,177	1,289
Feb-10	51,400	458	7,984	1,330	61,172	1,355
Mar-10	27,743	708	9,711	2,183	40,345	894
2009-10	606,557	13,953	110,110	38,808	769,428	17,045
Apr-10	32,951	831	7,950	1,050	42,781	952
May-10	70,623	2,035	10,373	1,521	84,551	1,882
Jun-10	51,166	477	9,448	2,005	63,096	1,405
Jul-10	33,815	569	7,959	1,329	43,672	972
Aug-10	34,664	492	9,323	1,272	45,751	1,019
Sep-10	41,754	1,050	16,231	3,145	62,180	1,384
(April-September 2010)	264,973	5,453	61,284	10,322	342,031	7,614

Source : NSE

Table 6-9: Business Growth of Currency Futures

Month/ Year	USDINR		EURINR		JPYINR		GBPINR		USDINR	EURINR	JPYINR	GBPINR
	No. of Contracts	Traded Value (Notional) in ₹ mn	No. of Contracts	Traded Value (Notional) in ₹ mn	No. of Contracts	Traded Value (Notional) in ₹ mn	No. of Contracts	Traded Value (Notional) in ₹ mn				
Apr-09	7,851,502	393,857							206,620			
May-09	13,682,468	664,315							318,203			
Jun-09	15,724,507	753,627							267,400			
Jul-09	19,888,011	965,229							318,298			
Aug-09	18,672,623	903,957							394,756			
Sep-09	22,251,896	1,077,888							360,603			
Oct-09	32,267,958	1,508,430							447,812			
Nov-09	33,794,926	1,575,541							493,018			
Dec-09	41,004,341	1,914,147							406,200			
Jan-10	60,223,714	2,767,419							615,612			
Feb-10	49,093,914	2,276,337	2,888,980	184,164	53,026	2,718	76,265	5,533	622,656	9,930	968	3,911
Mar-10	58,039,720	2,642,413	2,820,999	174,620	146,393	7,273	125,740	8,613	407,390	11,980	1,810	6,693
2009-10	372,495,580	17,443,161	5,709,979	358,783	199,419	9,991	202,005	14,146	4,858,568	21,910	2,778	10,604
Apr-10	75,411,437	3,359,080	1,608,481	95,989	9,786	467	55,463	3,786	563,226	21,834	538	5,655
May-10	75,021,152	3,438,519	2,591,211	149,680	17,842	903	114,665	7,696	762,391	20,192	1,542	4,029
Jun-10	68,341,107	3,187,766	1,371,201	78,212	46,094	2,383	79,131	5,465	944,121	19,395	6,281	7,341
Jul-10	43,199,013	2,028,844	1,538,240	92,370	62,361	3,343	125,240	8,977	826,468	22,412	3,535	5,765
Aug-10	41,273,073	1,929,224	1,190,935	71,785	79,854	4,379	95,776	7,003	908,783	20,866	10,667	4,106
Sep-10	60,535,055	2,783,444	748,696	45,116	191,847	10,522	110,876	7,959	800,905	23,760	14,099	4,146
April- September 2010	363,780,837	16,726,876	9,048,764	533,152	407,784	21,998	581,151	40,886	4,805,894	128,459	36,662	31,042

Source: NSE

Note:

Currency Futures on Additional Currency Pairs were introduced w.e.f February 01, 2010. (New currency pairs EUR-INR, GBP-INR and JPY-INR futures contracts)



Business Growth in Currency Futures Segment

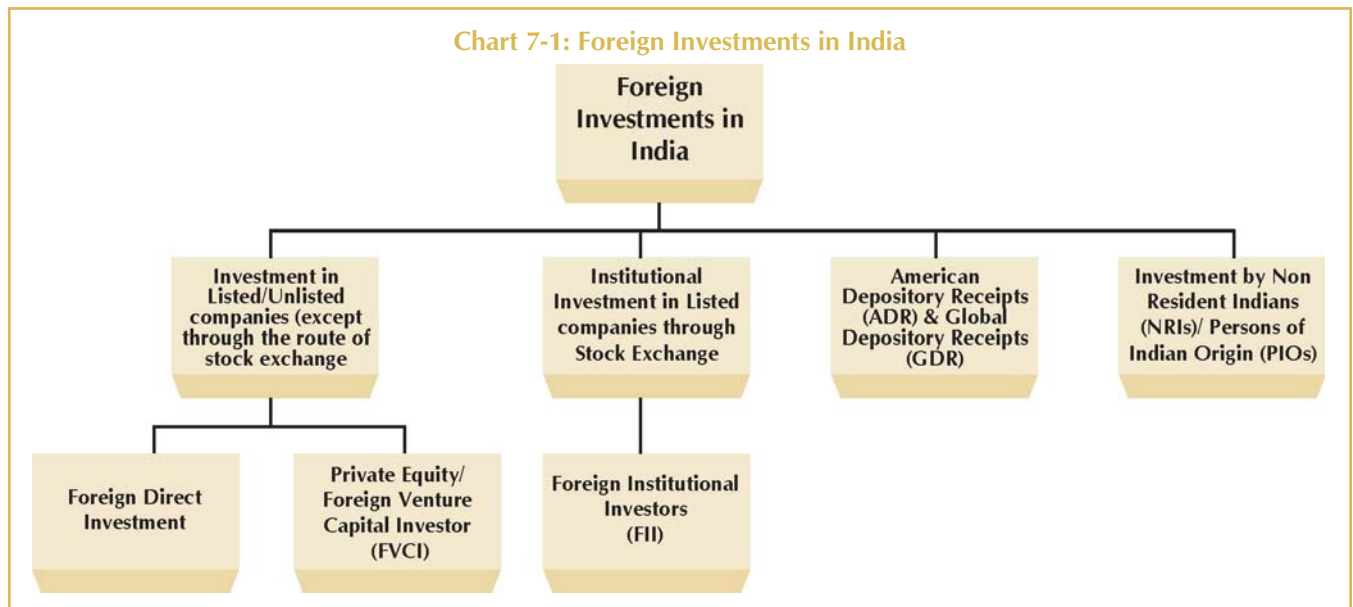
After an impressive start in the latter half of 2008, the Currency futures on the NSE witnessed exponential growth during 2009-10 and continued to flourish in the first-half of 2010-11. Table 6-9 presents the growth in the currency futures volumes and open interest on the NSE. The number of traded contracts and the trading value in this segment has increased by more than ten-times each in 2009-10, compared to that of 2008-09. Similarly, the trading volumes in the currency futures segment grew by around 260% in the first-half of 2010-11 compared to the corresponding period in 2009-10. The average daily trading volume zoomed to ₹ 1,558,053 million in 2009-10 compared to ₹ 11,674 million in 2008-09. During April-September 2010-11, the average daily trading volume whizzed to ₹ 135,335 million.

Way forward

For most part of the first decade of this century, except 2008-09, Indian derivatives market experienced rising volumes and thereby setting records almost routinely which was the case in most of the major global derivatives markets. The onset of the US sub-prime crisis in 2008, however, arrested this surge in major US and European exchanges which continued to slide in 2009-10 as well. Albeit the turnover in the global derivatives market remained almost unchanged in 2009, the sharp decline in west and the equivalent surge in the East was amply evident. The remarkable growth in the derivatives market volumes was led by the exchanges in India and China. The turnover in the Indian derivatives market improved significantly in 2009-10 after a dip in 2008-09 following the US sub-prime crisis. The robust turnover in the first-half of 2010-11 vindicated this trend. With the recovery in global markets firmly intact, there is every reason to believe that the derivatives markets world over will be firing on all cylinders again very soon.

Foreign Investments in India

Foreign investments in the country can take the form of investments in listed companies (i.e FII investments); investments in listed/unlisted companies other than through stock exchanges (i.e Foreign Direct Investment, Private Equity / Foreign Venture Capital Investment route); investments through American Depository Receipts / Global Depository Receipts (ADR/GDR) or investments by Non Resident Indians (NRIs) and Persons of Indian Origin (PIO) in various forms (Chart 7-1).



Foreign Institutional Investments

Evolution of policy framework¹

Until the 1980s, India's development strategy was focused on self-reliance and import-substitution. Current account deficits were financed largely through debt flows and official development assistance. There was a general disinclination towards foreign investment or private commercial flows. Since the initiation of the reform process in the early 1990s, however, India's policy stance has changed substantially, with a focus on harnessing the growing global foreign direct investment (FDI) and portfolio flows. The broad approach to reform in the external sector after the Gulf crisis was delineated in the Report of the High Level Committee on Balance of Payments (Chairman: C. Rangarajan). It recommended, inter alia, a compositional shift in capital flows away from debt to non-debt creating flows; strict regulation of external commercial borrowings, especially short-term debt; discouraging volatile elements of flows from non-resident Indians (NRIs); gradual liberalisation of outflows; and dis-intermediation of Government in the flow of external assistance.

¹ Source: Report of Expert Group on Encouraging FII flows and Checking the Vulnerability of Capital Markets to Speculative flows, November, 2005.



After the launch of the reforms in the early 1990s, there was a gradual shift towards capital account convertibility. From September 14, 1992, with suitable restrictions, FIIs and Overseas Corporate Bodies (OCBs) were permitted to invest in financial instruments.² The policy framework for permitting FII investment was provided under the Government of India guidelines vide Press Note dated September 14, 1992, which enjoined upon FIIs to obtain an initial registration with SEBI and also RBI's general permission under FERA. Both SEBI's registration and RBI's general permissions under FERA were to hold good for five years and were to be renewed after that period. RBI's general permission under FERA could enable the registered FII to buy, sell and realise capital gains on investments made through initial corpus remitted to India, to invest on all recognised stock exchanges through a designated bank branch, and to appoint domestic custodians for custody of investments held. The Government guidelines of 1992 also provided for eligibility conditions for registration, such as track record, professional competence, financial soundness and other relevant criteria, including registration with a regulatory organisation in the home country. The guidelines were suitably incorporated under the SEBI (FIIs) Regulations, 1995. These regulations continue to maintain the link with the government guidelines through an inserted clause that the investment by FIIs would also be subject to Government guidelines. This linkage has allowed the Government to indicate various investment limits including in specific sectors. With coming into force of the Foreign Exchange Management Act, (FEMA), 1999 in 2000, the Foreign Exchange Management (Transfer or issue of Security by a Person Resident Outside India) Regulations, 2000 were issued to provide the foreign exchange control context where foreign exchange related transactions of FIIs were permitted by RBI. A philosophy of preference for institutional funds, and prohibition on portfolio investments by foreign natural persons has been followed, except in the case of Non-resident Indians, where direct participation by individuals takes place. Right from 1992, FIIs have been allowed to invest in all securities traded on the primary and secondary markets, including shares, debentures and warrants issued by companies which were listed or were to be listed on the Stock Exchanges in India and in schemes floated by domestic mutual funds.

Historical evolution of FII Policy is summarized below:

Date	Policy Changes
September 1992	FIIs allowed to invest by the Government Guidelines in all securities in both primary and secondary markets and schemes floated by mutual funds. Single FIIs to invest 5 per cent and all FIIs allowed to invest 24 per cent of a company's issued capital. Broad based funds to have 50 investors with no one holding more than 5 per cent. The objective was to have reputed foreign investors, such as, pension funds, mutual fund or investment trusts and other broad based institutional investors in the capital market.
April 1997	Aggregated limit for all FIIs increased to 30 per cent subject to special procedure and resolution. The objective was to increase the participation by FIIs.
April 1998	FIIs permitted to invest in dated Government securities subject to a ceiling. Consistent with the Government policy to limit the short-term debt, a ceiling of US \$ 1 billion was assigned which was increased to US \$ 1.75 billion in 2004.
June 1998	Aggregate portfolio investment limit of FIIs and NRIs/PIOs/OCBs enhanced from 5 per cent to 10 per cent and the ceilings made mutually exclusive. Common ceilings would have negated the permission to FIIs. Therefore, separate ceilings were prescribed.
June 1998	Forward cover allowed in equity.
February 2000	Foreign firms and high net-worth individuals permitted to invest as sub-accounts of FIIs. Domestic portfolio manager allowed to be registered as FIIs to manage the funds of sub-accounts. The objective was to allow operational flexibility and also give access to domestic asset management capability.

² An OCB is a company, partnership firm, society and other corporate body owned directly or indirectly to the extent of at least sixty percent by NRIs and includes overseas trust in which not less than sixty percent beneficial interest is held by NRIs directly or indirectly but irrevocably.

Date	Policy Changes
March 2001	FII ceiling under special procedure enhanced to 49 per cent. The objective was to increase FII participation.
September 2001	FII ceiling under special procedure raised to sectoral cap.
December 2003	FII dual approval process of SEBI and RBI changed to single approval process of SEBI. The objective was to streamline the registration process and reduce the time taken for registration.
November 2004	Outstanding corporate debt limit of USD 0.5 billion prescribed. The objective was to limit short term debt flows.
April 2006	Outstanding corporate debt limit increased to USD 1.5 billion prescribed. The limit on investment in Government securities was enhanced to USD 2 bn. This was an announcement in the Budget of 2006-07.
November, 2006	FII investment upto 23% permitted in infrastructure companies in the securities markets, viz. stock exchanges, depositories and clearing corporations. This is a decision taken by Government following the mandating of demutualization and corporatization of stock exchanges.
January and October, 2007	FII allowed to invest USD 3.2 billion in Government Securities (limits were raised from USD 2 billion in two phases of USD 0.6 billion each in January and October).
June, 2008	While reviewing the External Commercial Borrowing policy, the Government increased the cumulative debt investment limits from US \$3.2 billion to US \$5 billion and US \$1.5 billion to US \$3 billion for FII investments in Government Securities and Corporate Debt, respectively.
October 2008	While reviewing the External Commercial Borrowing policy, the Government increased the cumulative debt investment limits from US \$3 billion to US \$6 billion for FII investments in Corporate Debt.
October 2008	Removal of regulation for FIIs pertaining to restriction of 70:30 ratio of investment in equity and debt respectively.
October 2008	Removal of Restrictions on Overseas Derivatives Instruments (ODIs) Disapproval of FIIs lending shares abroad.
March 2009	E-bids platform for FIIs
August 2009	FIIs allowed to participate in interest rate futures
April 2010	FIIs allowed to offer domestic Government Securities and foreign sovereign securities with AAA rating, as collateral to the recognised stock exchanges in India, in addition to cash, for their transactions in the cash segment of the market.
November 2010	Investment cap for FIIs increased by US \$ 5 billion each in Government securities and corporate bonds to US \$ 10 billion and US \$ 20 billion respectively.

As is evident from the above, the evolution of FII policy in India has displayed a steady and cautious approach to liberalisation of a system of quantitative restrictions (QRs). The policy liberalisation has taken the form of (i) relaxation of investment limits for FIIs; (ii) relaxation of eligibility conditions; and (iii) liberalisation of investment instruments accessible for FIIs.



Policy Developments for Foreign Investments

I. Allocation of Government debt & corporate debt investment limits to FIIs

SEBI, vide its circular dated November 26, 2010 has made the following decisions:

A. Increased investment limit for FIIs in Government and Corporate debt:

In an attempt to enhance FII investment in debt securities, government has increased the current limit of FII investment in Government Securities by US \$ 5 billion raising the cap to US \$ 10 billion. Similarly, the current limit of FII investment in corporate bonds has also been increased by US \$ 5 billion raising the cap to US \$ 20 billion. This incremental limit shall be invested in corporate bonds with residual maturity of over five years issued by companies in the infrastructure sector. The market regulator SEBI announced this vide its circular dated November 26, 2010.

B. Time period for utilization of the debt limits:

In July 2008, some changes pertaining to the methodology for the allocation of debt limit had been specified. In continuation of the same, SEBI has decided that the time period for utilization of the corporate debt limits allocated through bidding process (for both old and long term infra limit) shall be 90 days. However, time period for utilization of the government debt limits allocated through bidding process shall remain 45 days. Moreover, the time period for utilization of the corporate debt limits allocated through first come first serve process shall be 22 working days while that for the government debt limits shall remain unchanged at 11 working days.

Further, it was decided to grant a period of upto 15 working days for replacement of the disposed off/ matured debt instrument/ position for corporate debt while that for Government debt will continue to be at 5 working days.

C. Government debt long terms:

SEBI, vide its circular dated February 2009, had decided that no single entity shall be allocated more than ₹ 10,000 crore of the investment limit. In a partial amendment to this, SEBI, vide its circular dated November 26, 2010, has decided that no single entity shall be allocated more than ₹ 2000 crore of the investment limit. Where a singly entity bids on behalf of multiple entities, then such bid would be limited to ₹ 2,000 crore for every such single entity. Further, the minimum amount which can be bid for has been made ₹ 200 crore and the minimum tick size has been made ₹ 100 crore.

D. Corporate debt – Old limit:

SEBI has decided that no single entity shall be allocated more than ₹ 600 crore of the investment limit. Where a singly entity bids on behalf of multiple entities, then such bid would be limited to ₹ 600 crore for every such single entity. Further, the minimum amount which can be bid for has been made ₹ 100 crore and the minimum tick size has been made ₹ 50 crore.

E. Multiple bid order from single entity:

SEBI has allowed the bidder to bid for more than one entity in the bidding process provided:

- a) It provides due authorization to act in that capacity by those entities
- b) It provides the stock exchanges, the allocation of the limits interse for the entities it has bid for to exchange with 15 minutes of close of bidding session.

F. FII investment into 'to be listed' debt securities

The market regulator has decided that FIIs will be allowed to invest in primary debt issues only if listing is committed to be done within 15 days. If the debt issue could not be listed within 15 days of issue, then the holding of FIIs/sub-accounts if disposed off shall be sold off only to domestic participants/investors until the securities are listed. This is in contrast to the earlier regulations issued in April 2006, wherein FII investments were restricted to only listed debt securities of companies.

II. Maintenance of Collateral by FIIs for Transactions in the Cash Segment

RBI, vide its circular dated April 12, 2010 has decided, in consultation with the Government of India and the SEBI, to permit the FIIs to offer domestic Government securities and foreign sovereign securities with AAA rating, as collateral to the recognized stock exchanges in India, in addition to cash, for their transactions in the cash segment of the market.

III. Reporting of Lending of Securities bought in the Indian Market

SEBI, vide its circular dated June 29, 2010 has decided that the FIIs' reporting of lending of securities bought in the Indian market will be done on weekly basis instead of the erstwhile daily submissions. In accordance with this change in periodicity of reports, with effect from July 02, 2010, FIIs are required to submit the reports every Friday. Further, in view of the change in the periodicity of the reporting, PN issuing FIIs are required to submit the following undertaking along with the weekly report:

"Any fresh short position shall be immediately reported to SEBI"

IV. FII participation in Interest Rate Futures

FIIs have been allowed to participate in interest rate futures which were introduced for trading at NSE on August 31, 2009.

V. Rationalisation of SEBI Fees for FIIs and FVCIs

SEBI has reduced its fees to be charged to FVIs and FIIs. This was effective from July 2009 onwards.

Intermediaries	Earlier Fees	Revised Fees
FVCI		
Application Fees	US \$ 5,000	US \$ 2,500
Registration fees (one time)	US \$ 20,000	US \$ 10,000
FII		
Registration Fees for every block of 3 years	US \$ 10,000	US \$ 5,000
Sub-accounts		
Registration Fees for every block of 3 years	US \$ 2,000	US \$ 1,000

Market Design – FIIs

Entities eligible to invest under FII route:	<p>As FII:</p> <ol style="list-style-type: none"> an institution established or incorporated outside India as a pension fund, mutual fund, investment trust, insurance company or reinsurance company; an International or Multilateral Organization or an agency thereof or a Foreign Governmental Agency, Sovereign Wealth Fund or a Foreign Central Bank; an asset management company, investment manager or advisor, bank or institutional portfolio manager, established or incorporated outside India and proposing to make investments in India on behalf of broad based funds and its proprietary funds, if any; a Trustee of a trust established outside India, and proposing to make investments in India on behalf of broad based funds and its proprietary funds, if any
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v. university fund, endowments, foundations or charitable trusts or charitable societies. Broad based fund means a fund established or incorporated outside India, which has at least 20 investors with no single individual investor holding more than 49 percent of the shares or units of the fund. If the broad based fund has institutional investor(s), then it is not necessary for the fund to have 20 investors. Further, if the broad based fund has an institutional investor who holds more than 49 percent of the shares or units in the fund, then the institutional investor must itself be a broad based fund.

Sub-account means any person resident outside India, on whose behalf investments are proposed to be made in India by a foreign institutional investor and who is registered as a sub-account under the SEBI (FII) Regulations, 1995.

The applicant for sub-account can fall into any of the following categories, namely:

- i broad based fund or portfolio which is broad based, incorporated or established outside India.
- ii proprietary fund of a registered foreign institutional investor.
- iii foreign corporate (which has its securities listed on a stock exchange outside India, having asset base of not less than US \$ 2 billion and having an average net profit of not less than US \$ 50 million.

A non-resident Indian shall not be eligible to invest as sub-account.

Investment Restrictions

An FII can invest only in the following:

- i. securities in the primary and secondary markets including shares, debentures and warrants of companies, unlisted, listed or to be listed on a recognised stock exchange in India
- ii. units of schemes floated by domestic mutual funds including Unit Trust of India, whether listed or not listed on a recognised stock exchange; units of scheme floated by a Collective Investment Scheme.
- iii. dated Government securities and
- iv. derivatives traded on a recognised stock exchange
- v. commercial paper
- vi. security receipts
- vii. Indian Depository Receipts

In case foreign institutional investor or sub-account holds equity shares in a company whose shares are not listed on any recognized stock exchange, and continues to hold the shares after initial public offering and listing thereof, such shares would be subject to lock-in for the same period, if any is applicable to shares held by a foreign direct investor placed in similar position, under the policy of the Central Government relating to foreign direct investment for the time being in force.

The total investments in equity and equity related instruments (including fully convertible debentures, convertible portion of partially convertible debentures and tradable warrants) made by a FII in India, whether on his own account or on account of his sub-accounts, should not be less than 70 per cent of the aggregate of all the investments of the Foreign Institutional Investor in India, made on his own account and on account of his sub-accounts.

However, this is not applicable to any investment of the FII either on its own account or on behalf of its sub-accounts in debt securities which are unlisted or listed or to be listed on any stock exchange if the prior approval of the SEBI has been obtained for such investments. Further, SEBI while granting approval for the investments may

	<p>impose conditions as are necessary with respect to the maximum amount which can be invested in the debt securities by the foreign institutional investor on its own account or through its sub-accounts. A foreign corporate or individual shall not be eligible to invest through the 100 percent debt route.</p> <p>Investments made by FIIs in security receipts issued by securitization companies or asset reconstruction companies under the Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002 are not eligible for the investment limits mentioned above. No foreign institutional investor can invest in security receipts on behalf of its sub-accounts.</p> <p>FII Investment in secondary markets:</p> <p>SEBI regulations provide that a foreign institutional investor or sub-account can transact in the Indian securities market only on the basis of taking and giving delivery of securities purchased or sold. However, this does not apply to any transactions in derivatives on a recognised stock exchange.</p> <p>Further, SEBI has, in December, 2007 permitted FIIs and sub-accounts can enter into short selling transactions only in accordance with the framework specified by SEBI.</p> <p>No transaction on the stock exchange can be carried forward and the transaction in securities would be only through stock broker who has been granted a certificate by SEBI.</p> <p>They have also been allowed to lend or borrow securities in accordance with the framework specified by SEBI in this regard.</p> <p>The purchase of equity shares of each company by a FII investing on his own account should not exceed 10 percent of the total issued capital of that company. FII investing in equity shares of a company on behalf of his sub-accounts, the investment on behalf of each such sub-account should not exceed 10 percent of the total issued capital of that company. In case of foreign corporate or individuals, each of such sub-account should not invest more than five percent of the total issued capital of the company in which such investment is made.</p> <p>A Foreign institutional investor can issue, or otherwise deal in offshore derivative instruments, directly or indirectly wherein the offshore derivative instruments are issued only to persons who are regulated by an appropriate foreign regulatory authority and the ODIs are issued after compliance with 'know your client' norms.</p>
<p>General Obligations And Responsibilities</p>	<p>Certain general obligations and responsibilities relating to appointment of domestic custodians, designated bank, investment advice in publicly accessible media etc. have been laid down on the FIIs operating in the country in the SEBI (FII) Regulations, 1995.</p>
<p>Private Placement with FIIs</p>	<p>SEBI registered FIIs have been permitted to purchase shares/convertible debentures of an Indian company through offer/private placement subject to the ceiling of 10 percent of the paid up capital of the Indian company for individual FII/sub account and 24 percent for all FIIs/sub-accounts put together. Indian company is permitted to issue such shares provided that:</p> <ul style="list-style-type: none"> i in the case of public offer, the price of shares to be issued is not less than the price at which shares are issued to residents and ii in the case of issue by private placement, the price is not less than the price arrived at in terms of SEBI guidelines or guidelines issued by the erstwhile Controller of Capital issues as applicable. Purchases can also be made of Partially Convertible debentures, Fully Convertible debentures, Rights/Renunciations/Warrants/Units of Domestic Mutual Fund Schemes.



Risk Management Forward Cover & Cancellation and Rebooking	<p>Authorized Dealer Banks can offer forward cover to FIIs to the extent of total inward remittance of liquidated investment. Rebooking of cancelled forward contracts is allowed up to a limit of 2 percent of the market value of the entire investment of FIIs in equity and/or debt in India. The limit for calculating the eligibility for rebooking will be based upon market value of the portfolio as at the beginning of the financial year (April-March). The outstanding contracts have to be duly supported by underlying exposure at all times. The AD Category-I bank has to ensure that (i) that total forward contracts outstanding does not exceed the market value of portfolio and (ii) forward contracts permitted to be rebooked does not exceed 2 percent of the market value as determined at the beginning of the financial year. The monitoring of forward cover is to be done on a fortnightly basis.</p>
FII Position Limits In Derivatives Contracts	<p>SEBI registered FIIs are allowed to trade in all exchange traded derivative contracts on the stock exchanges in India subject to the position limits as prescribed by SEBI from time to time. These have been listed out in Chapter 7.</p> <p>Clearing Corporation monitors the open positions of the FII/sub-accounts of the FII for each underlying security and index, against the position limits specified at the level of FII/sub-accounts of FII respectively, at the end of each trading day.</p>
Monitoring of investment position by RBI	<p>The Reserve Bank of India (RBI) monitors the investment position of FIIs in listed Indian Companies, reported by Custodian/designated AD banks on a daily basis, in Forms LEC (FII).</p> <p>Caution List</p> <p>When the total holdings of FIIs under the Scheme reach the limit of 2 percent below the sectoral cap, RBI issues a notice to all designated branches of AD Category – 1 banks cautioning that any further purchases of shares of the particular Indian company will require prior approval of RBI. RBI gives case-by case approvals to FIIs for purchase of shares of companies included in the Caution List. This is done on a first-come-first served basis.</p> <p>Ban List</p> <p>Once the shareholding by FIIs reaches the overall ceiling/sectoral cap/statutory limit, RBI places the company in the Ban List. Once a company is placed on the Ban List, no FII or NRI can purchase the shares of the company under the Portfolio Investment Scheme.</p>
Margin Requirements	<p>SEBI registered FIIs/sub-accounts are allowed to keep with the trading member/clearing member amount sufficient to cover the margins prescribed by the exchange/Clearing House and such amounts as may be considered to meet the immediate needs.</p>
Reporting of FII Investments	<p>An FII may invest in a particular share issue of an Indian Company either under the FDI scheme or the Portfolio Investment Scheme. The AD Category-I banks have to ensure that the FIIs who are purchasing the shares by debit to the Special Non-Resident Rupee Account report these details separately in the Form LEC (FII).</p>

Investment by FIIs under Portfolio Investment Scheme

RBI has given general permission to SEBI registered FIIs/sub-accounts to invest under the Portfolio Investment Scheme (PIS).

- Total holding of each FII/sub account under this scheme should not exceed 10% of the total paid up capital or 10% of the paid up value of each series of convertible debentures issued by the Indian company.
- Total holding of all the FIIs/sub-accounts put together should not exceed 24% of the paid up capital or paid up value of each series of convertible debentures. This limit of 24% can be increased to the sectoral cap / statutory limit as applicable to the Indian Company concerned, by passing a resolution of its Board of Directors followed by a special resolution to that effect by its General Body.

- A domestic asset management company or portfolio manager, who is registered with SEBI as an FII for managing the fund of a sub-account can make investments under the Scheme on behalf of:
 - i. A person resident outside India who is a citizen of a foreign state or
 - ii. A body corporate registered outside India.
- However, such investment should be made out of funds raised or collected or brought from outside through normal banking channel. Investments by such entities should not exceed 5% of the total paid up equity capital or 5% of the paid up value of each series of convertible debentures issued by an Indian company, and should also not exceed the overall ceiling specified for FIIs.

Market Outcome

The monthly trend in FII investments during 2009-10, as depicted in Table 7-1, shows that net FII investment remained positive for the entire fiscal year; in contrast to 2008-09 in which net FII inflows were negative for eight months. In March 2010, the net investment of US \$ 6,465 million by FIIs was the highest monthly net investment in 2009-10. The total net investment by FIIs in 2009-10 stood at US \$ 30,253 million and it continued to flourish in the first-half of 2010-11 at US \$ 19,250 million with September 2010 clicking net investment of a mammoth US \$ 7,100 million. After witnessing a tumultuous year of investment, these record FII investments have given a boost to the Indian markets during the last year and a half.

Table 7-1: Trends in FII Investment

Period	Purchases (₹ mn.)	Sales (₹ mn.)	Net Investment (₹ mn.)	Net Investment (US \$ mn.)	Cumulative Net Investment (US \$ mn.)
2000-01	740,506	641,164	99,342	2,159	13,532
2001-02	499,199	411,650	87,549	1,839	15,372
2002-03	470,601	443,710	26,891	566	15,937
2003-04	1,448,575	990,940	457,635	10,005	25,943
2004-05	2,169,530	1,710,730	458,800	9,363	36,294
2005-06	3,449,780	3,055,120	394,660	9,863	45,657
2006-07	5,205,090	4,896,680	308,410	6,821	52,478
2007-08	9,480,196	8,389,304	1,090,892	16,442	68,919
2008-09	6,145,810	6,603,920	-458,110	-9,837	59,082
Apr-09	497,150	407,160	89,990	1,791	60,872
May-09	812,660	638,610	174,060	3,577	64,449
Jun-09	760,730	711,740	48,980	1,059	65,508
Jul-09	802,120	670,300	131,820	2,727	68,235
Aug-09	606,740	561,510	45,230	945	69,179
Sep-09	789,520	583,790	205,730	4,263	73,442
Oct-09	833,530	673,800	159,730	3,428	76,870
Nov-09	636,330	574,520	61,810	1,330	78,200
Dec-09	573,940	486,830	87,110	1,873	80,073
Jan-10	788,120	703,990	84,130	1,849	81,922
Feb-10	511,270	467,640	43,620	946	82,868
Mar-10	852,290	557,920	294,370	6,465	89,333

Contd.



Contd.

Period	Purchases (₹ mn.)	Sales (₹ mn.)	Net Investment (₹ mn.)	Net Investment (US \$ mn.)	Cumulative Net Investment (US \$ mn.)
2009-10	8,464,400	7,037,810	1,426,580	30,253	89,333
Apr-10	743,740	619,810	123,930	2,783	92,116
May-10	715,690	785,550	-69,860	-1,505	90,611
Jun-10	689,760	577,270	112,490	2,424	93,035
Jul-10	806,710	559,470	247,240	5,285	98,320
Aug-10	753,960	607,100	146,860	3,163	1,01,483
Sep-10	928,370	601,690	326,680	7,100	1,08,583
(Apr-Sep 10)	4,638,230	3,750,890	887,340	19,250	1,08,584

Source: SEBI.

Note: This data pertains to all the activities undertaken by FIIs in Indian Securities Market, including trades in Secondary Market, Primary Market & activities involved in right bonus issues, private placement, merger & accisition etc.

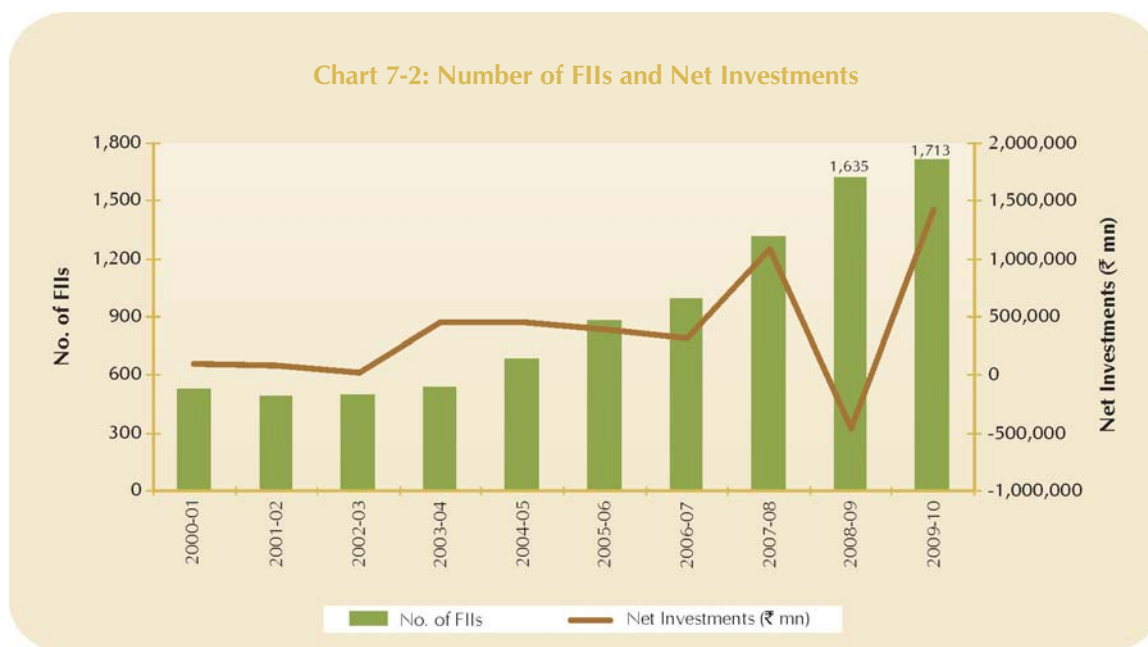
Number of Foreign Institutional Investors (FIIs)

The net addition in SEBI registered FIIs failed to keep up the momentum seen in 2007-08 and 2008-09 wherein there was addition of 322 and 316 FIIs respectively. There was a net addition of 78 SEBI registered FIIs in 2009-10 which took their total number to 1,713 at end March 2010 compared to that of 1,635 at the end of March 2009 (Table 7-2 and Chart 7-2).

Table 7-2: SEBI Registered FIIs in India

Year	FII at end of March	Net Additons of FIIs during the year
1992-93	0	0
1993-94	3	3
1994-95	156	153
1995-96	353	197
1996-97	439	86
1997-98	496	57
1998-99	450	-46
1999-00	506	56
2000-01	527	21
2001-02	490	-37
2002-03	502	12
2003-04	540	38
2004-05	685	145
2005-06	882	197
2006-07	997	115
2007-08	1,319	322
2008-09	1,635	316
2009-10	1,713	78

Source: SEBI



Foreign Institutional Investments- Equity and Debt

FIIs were allowed to invest in the Indian Capital Market from September 1992. Investments by them, however, were first made in January 1993. Till December 1998, investments were related to equity only as the Indian gilts market opened up for FII investment in April 1998. FIIs' investment in debt started from January 1999. Foreign Institutional Investors (FIIs) continued to invest large funds in the Indian securities market. For two consecutive years in 2004-05 and 2005-06, net investment in equity showed year-on-year increase of 10%.

Table 7-3: Net Investments by FIIs in Equity and Debt

(₹ million)

Year	FIIs	
	Net Investment in Equity	Net Investment in Debt
2001-02	80,670	6,850
2002-03	25,280	600
2003-04	399,600	58,050
2004-05	441,230	17,590
2005-06	488,010	-73,340
2006-07	252,360	56,050
2007-08	534,040	127,750
2008-09	-477,060	18,950
Apr-09	65,080	24,900
May-09	201,170	-27,110
Jun-09	38,300	10,680
Jul-09	110,660	21,150
Aug-09	49,030	-3,790

Contd.



Contd.

Year	FIIs	
	Net Investment in Equity	Net Investment in Debt
Sep-09	183,440	22,280
Oct-09	90,770	68,960
Nov-09	54,970	6,840
Dec-09	102,330	-15,220
Jan-10	-5,000	89,130
Feb-10	12,170	31,460
Mar-10	199,280	95,100
2009-10	1,102,200	324,380
Apr-10	93,610	30,320
May-10	-94,370	24,510
Jun-10	105,080	7,410
Jul-10	166,170	81,070
Aug-10	116,880	29,990
Sep-10	249,790	76,900
(Apr-Sep 10)	637,160	250,200

After experiencing a net outflow of ₹477,070 million in equity instruments in 2008-09, FIIs scaled record equity investment in 2009-10 which stood at ₹ 1,102,200 million. The momentum seems to be continuing in the first-half of 2010-11 with ₹ 637,160 million net FII investments in equities. (Table 7-3)

The net investments by FIIs in the debt segment also bounced back in 2009-10 with a staggering all-time high of ₹ 324,380 million compared to that of ₹ 18,950 in 2008-09. The impressive trend has continued during the April-September period of 2010 with net investments worth ₹ 250,200 million in debt.

Foreign Institutional Investments in Equity and Derivative

Equity Market Segment

The gross turnover of FIIs in equity market segment on the Indian stock exchanges (NSE + BSE) accounted for ₹ 12,750,197 million in 2009-10, a year-on-year growth of 10.62%. The total turnover of FIIs in equity market constituted 11.56% of the total turnover on BSE and NSE in 2009-10. (Table 7-4)

Table 7-4: FII Turnover in Equity Market Segment of NSE and BSE

Year	Buy Value (₹ million)	Sell Value (₹ million)	Gross Turnover of FIIs (₹ million)	Total Turnover on Exchanges (₹ million)	%age of FII turnover to Total Turnover on Exchanges
2006-07	4,550,232	4,595,466	9,145,698	57,946,240	15.78
2007-08	8,329,654	8,705,790	17,035,445	102,515,340	16.62
2008-09	5,396,976	6,129,275	11,526,252	77,037,880	14.96
2009-10	6,568,931	6,181,265	12,750,197	110,336,640	11.56
(April-September 2010)	3,482,340	3,107,302	6,589,643	47,110,760	13.99

Derivative Market Segment

The FII gross turnover in the F&O Segment of NSE during 2009-10 was ₹ 34,772,177 million which was 9.84% of the total derivatives market turnover of ₹ 353,273,291 million at NSE. The share of FIIs' gross turnover increased to 11.09% of the total turnover on NSE during the first-half of 2010-11. (Table 7-5)

Table 7-5: FII Turnover in F&O Market Segment of NSE

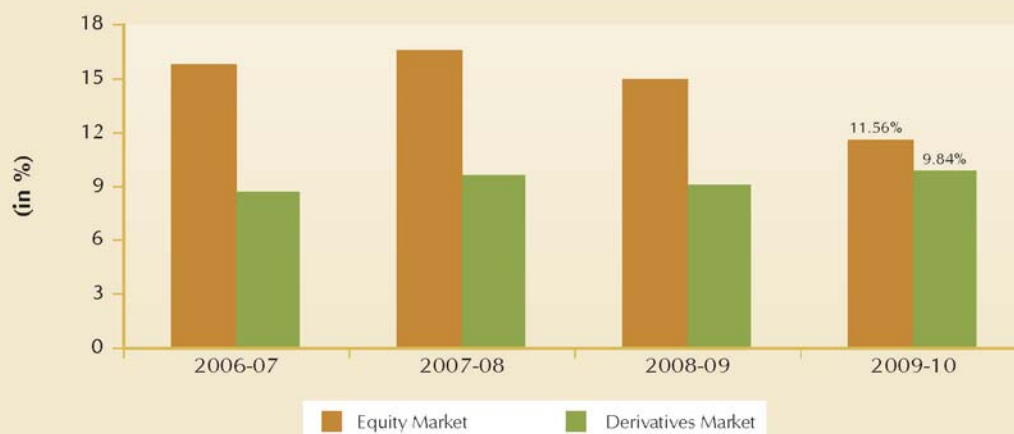
	Buy Value (₹ million)		Sell Value (₹ million)		Gross No. of contracts traded	Gross Turnover of FIIs	Total Turnover on NSE (₹ million)	%age of FII turnover to Total Turnover on Exchanges
	No. of contracts	Amount (₹mn)	No. of contracts	Amount (₹mn)	No. of contracts	Amount (₹mn)	Amount (₹mn)	
2006-07	20,215,981	6,484,665	19,659,868	6,360,392	39,875,849	12,845,058	47,125,420	8.73
2007-08	47,880,785	2,633,510	46,078,979	2,401,616	93,959,764	25,035,126	261,809,560	9.56
2008-09	58,338,152	10,165,351	55,464,681	9,680,224	113,802,833	19,845,575	220,209,640	9.01
2009-10	68,934,646	17,519,697	67,561,143	17,252,480	136,495,789	34,772,177	353,273,291	9.84
April-September 2010	51,967,875	14,206,145	48,875,597	13,414,249	100,843,472	27,620,394	249,034,883	11.09

Note:

Here the data for FII turnover is only the data of NSE which is reported to SEBI

Here data for total turnover on Exchange refers to NSE

Chart 7-3: Percentage of FII Turnover in Equity and Derivative Segments of Stock Exchanges



Note: Here, derivatives segment pertains to only NSE

Offshore Derivative Instruments (ODIs)

Offshore Derivative Instruments include Participatory Notes, Equity-Linked Notes, Capped Return Note, Investment Note and similar instruments issued by FIIs/Sub Accounts outside India against their underlying investments in India, listed or proposed to be listed on any stock exchange in India.



Participatory Notes (PNs)

Participatory Notes are the most common type of ODIs. PNs are instruments used by foreign funds not registered in the country for trading in the domestic market. They are a derivative instrument issued against an underlying security that permits the holder to share in the capital appreciation and /income from the underlying security.

As of March 2010, the total value of P-Notes with underlying Indian securities as a percentage of Assets Under Management (AUM) of FIIs decreased to 16.10% from 17.72% in March 2009. Table 7-6 shows the total value of participatory notes versus assets under management of FIIs from March 2004 onwards.

Table 7-6: Total Value of Participatory Notes (PNs) Vs Assets Under Management of FIIs

(in ₹ million)

Month	*Total Value of PNotes with Underlying Indian securities	#Assets Under Management of FIIs	A as % of B
	A	B	C
Mar-04	3,187,500	1,593,970	20.00
Mar-05	591,320	2,362,570	25.03
Mar-06	1,548,630	4,536,360	34.14
Mar-07	2,428,390	5,470,100	44.39
Mar-08	2,508,520	7,367,530	34.05
Mar-09	694,450	3,919,540	17.72
Apr-09	723,140	4,690,930	15.42
May-09	1,034,700	6,244,880	16.57
Jun-09	978,850	6,310,470	15.51
Jul-09	1,083,450	6,925,220	15.64
Aug-09	1,103,550	7,107,920	15.53
Sep-09	1,291,000	7,868,520	16.41
Oct-09	1,245,750	7,554,440	16.49
Nov-09	1,299,430	7,843,400	16.57
Dec-09	1,686,320	8,483,330	19.88
Jan-10	1,319,380	8,148,440	16.19
Feb-10	1,241,770	8,188,940	15.16
Mar-10	1,450,370	9,008,690	16.10
Apr-10	1,543,400	9,271,940	16.65
May-10	1,599,270	8,833,790	18.10
Jun-10	1,680,160	9,274,680	18.12
Jul-10	1,657,490	9,710,220	17.07
Aug-10	1,636,570	9,991,300	16.38
Sep-10	2,009,270	11,243,520	17.87

*Figures compiled based on reports submitted by PN issuing FIIs

#Figures compiled based on reports submitted by custodians

Share of FIIs in NSE Listed Companies

The FII ownership of shares in various sectors of NSE listed companies is depicted in table 7-7. At the end of March 2010, FIIs held the highest stake of 16.53% in the Finance sector followed by Banking and FMCG of 16.02% and 14.09% respectively. The total percentage of shares held by FIIs across different sectors was 9.58% of the total shares of the companies listed on NSE as at end March 2010 and stood at 10.39% at the end of September 2010.

Table 7-7: FII Share in different sectors of companies listed on NSE

Sectors	Percentage Share of Foreign institutional Investors at the end of				
	Mar-07	Mar-08	Mar-09	Mar-10	Sep-10
Banks	18.41	19.15	14.27	16.02	19.24
Engineering	11.45	10.63	7.34	8.28	9.24
Finance	18.18	17.44	13.01	16.53	22.63
FMCG	11.91	14.07	12.72	14.09	15.73
Information Technology	14.53	16.00	12.44	11.68	10.47
Infrastructure	7.15	8.86	7.31	8.90	8.75
Manufacturing	9.57	9.46	7.28	8.79	8.99
Media & Entertainment	15.20	11.71	11.42	7.06	7.82
Petrochemicals	5.83	4.73	4.77	6.08	6.35
Pharmaceuticals	11.17	10.69	7.88	8.78	9.16
Services	13.09	10.70	8.39	8.05	8.82
Telecommunication	11.17	9.12	6.85	8.64	8.73
Miscellaneous	8.19	9.30	8.39	8.10	10.35
Total stake of FIIs in all the Sectors	10.78	10.62	8.4	9.58	10.39

Source: NSE

FII Stock Market Indicators

The presence of FIIs in the Indian stock market can be gauged from various indicators like Market Capitalisation ratio (as a percentage of GDP and as a percentage of total M-Cap of NSE) and Value Traded ratio. (Table 7-8)

Table 7-8: FII Market Indicators

FII Market Indicators	2006-07	2007-08	2008-09	2009-10
Market Capitalisation Ratio	13.14%	15.08%	6.49%	12.68%
Value Traded Ratio (Traded Value / GDP)	11.08%	18.03%	10.32%	9.73%
Market Capitalisation of FIIs holding (in NSE Listed Companies) to Total Market Capitalisation of NSE	16.10%	14.66%	12.50%	13.82%

Source: NSE, Central Statistical Organisation

Note:

Value traded ratio of FIIs is computed using cash market turnover of FIIs on NSE + BSE divided by GDP

Market Capitalisation ratio of FIIs is computed using Market Capitalisation of FIIs on NSE divided by GDP

In the year 2009-10, value traded ratio of the FIIs (Traded value of FII / GDP) on NSE was 9.73%. The share of FIIs market capitalisation to the total market capitalization of NSE at end March 2010 was 13.82%. The market capitalization ratio, reflecting the ratio of market capitalization of FIIs to NSE and GDP, jumped to 12.68% in 2009-10 compared to 6.49% in 2008-09.

Foreign Venture Capital

Venture capital plays a vital role in the development and growth of innovative entrepreneurs. Venture capital financing started in India in 1988, with the formation of Technology Development and Information Company of India Ltd. (TDICI) promoted by ICICI and UTI Bank. At the same time, Gujarat Venture Fund Limited & Andhra Pradesh



Industrial Development Corporation in the early 90s was started by State level Financial Institutions. Thus, venture capital was initially the prerogative of development financial institutions. The mid 90's saw the rise of Foreign Venture Capital Funds which focused on development capital without any sectoral focus and was dependant more on opportunities. After the success, of these funds, there was emergence of a number of India-centric foreign VC firms.

In the absence of an organized venture capital industry, individual investors and development financial institutions have hitherto played the role of venture capitalists in India. Entrepreneurs have largely depended upon private placements, public offerings and lending by financial institutions.

In 1973, a committee on "Development of Small and Medium Enterprises" highlighted the need to foster venture capital as a source of funding new entrepreneurs and technology. Later, a study was undertaken by the World Bank to examine the possibility of developing venture capital in the private sector, based on which Government of India took a policy initiative and announced guidelines for venture capital funds (VCFs) in 1988. Thereafter, Government of India issued guidelines in September 1995 for overseas venture capital investment in India. Further, as a part of its mandate to regulate and to develop the Indian securities markets, SEBI under Sec 12 of SEBI Act 1992 framed SEBI (Venture Capital Funds) Regulations, 1996.

Pursuant to the regulatory framework, some domestic VCFs were registered with SEBI. Some overseas investment has also come through the Mauritius route.

The SEBI committee on Venture Capital was set up in July 1999 to identify the impediments and suggest suitable measures to facilitate the growth of VC activity in India. Also keeping in view the need for a global perspective, it was decided to associate Indian Entrepreneurs from Silicon Valley in the committee headed by KB Chandrasekhar. These guidelines were further amended in April 2000 with the objective of fuelling the growth of VC activities in India. Thereafter, based on recommendations of the K.B. Chandrasekhar Committee, which was set up by SEBI during the year 1999-2000, guidelines for Overseas Venture Capital Investment in India were withdrawn by the Government in September 2000, and SEBI was made the nodal regulator for VCFs to provide a uniform, hassle free, single window regulatory framework. SEBI also notified regulations for foreign venture capital investors. On the pattern of foreign institutional investors (FIIs), Foreign Venture Capital Investors (FVCIs) were also to be registered with SEBI.

The Advisory Committee on Venture Capital, set up under Chairmanship of Dr. Ashok Lahiri, submitted its report to SEBI in the year 2003. It helped SEBI in considering the amendments to the regulations that facilitated the further development of vibrant venture capital industry in India. Thus, the various changes in regulations for FVCIs led to the growth in the registrations FVCIs. Table 7-9 gives the count of FVCI registration from 2000-01 onwards. As of March 2010, the number of FVCIs registered with SEBI was 143.

Table 7-9: SEBI Registered FVCIs in India

Year	FVCI at end of March	Net Additons in FVCIs during the year
2000-01	1	
2001-02	2	1
2002-03	6	4
2003-04	9	3
2004-05	14	5
2005-06	39	25
2006-07	78	39
2007-08	97	19
2008-09	129	32
2009-10	143	14

Source: SEBI

Market Design for Foreign Venture Capital Investor (FVCI)

Foreign Venture Capital Investors	<p>Foreign Venture Capital Investor means an investor incorporated, established outside India is registered under SEBI (Foreign Venture Capital Investor) Regulations, 2000.</p> <p>A SEBI registered Foreign Venture Capital Investor (FVCI) with specific approval from RBI under FEMA Regulations can invest in Indian Venture Capital Undertaking (IVCU) or Indian Venture Capital Fund (IVCF) or in a Scheme floated by such IVCFs subject to the condition that the VCF should also be registered with SEBI.</p>
FVCI Investments	<p>A registered FVCI may through the SEBI apply to the RBI for permission to invest in Indian Venture Capital undertaking (IVCU) or in a VCF or in a scheme floated by such VCFs. Permission may be granted by RBI subject to such terms and conditions as necessary. The registered FVCIs permitted by RBI can purchase equity / equity linked instruments / debt / debt instruments, debentures of an IVCU or of a VCF through initial public offer or private placement in units of schemes / funds set up by a VCF. At the time of granting approval, the RBI permits the FVCI to open a Foreign Currency Account and/or a Rupee Account with a designated branch of an AD Category – I bank. Following are the permissible transactions:</p> <ol style="list-style-type: none"> (i) Crediting inward remittance received through normal banking channels or the sale proceeds (net of taxes) of investments. (ii) Making investment in accordance with the provisions stated by regulations (iii) Transferring funds from the foreign currency account of the FVCI to their own rupee account (iv) Remitting funds from the Foreign currency or rupee account subject to payment of applicable taxes. (v) Meeting local expenses of the FVCI.
Investment Conditions and Restrictions	<p>The Foreign Venture capital investor has to abide by the following conditions pertaining to investments made by it.</p> <ol style="list-style-type: none"> i. It has to disclose the investment strategy to SEBI. ii. It can invest its total funds committed in one venture capital fund. iii. FVCU should make investment as enumerated below: <ol style="list-style-type: none"> i) At least 66.67 percent of the investible funds should be invested in unlisted equity shares or equity linked instruments of venture capital undertakings. ii) Not more than 33.33 percent of the investible funds may be invested by way of <ul style="list-style-type: none"> • subscription to Initial Public Offer (IPO) of a Venture Capital Undertaken (VCU) whose shares are proposed to be listed. • debt or debt instrument of a VCU in which the FVCI has already made an investment by way of equity. • Preferential allotment of equity shares of a listed company subject to lock-in-period of one year. This condition should be achieved by FVCI by end of the life cycle. • It should disclose the duration of the life cycle of the fund. • Special Purpose Vehicles (SPVs) which are created by a venture capital fund for the purpose of facilitating or promoting investment in accordance with SEBI (FVCI) Regulations 2000. <p>The investment conditions and restrictions stipulated above should be achieved by the venture capital fund by the end of its life cycle.</p>



General Obligations and Responsibilities	Certain general obligations and responsibilities relating to maintenance of books and records, power to call for information by SEBI, appointment of designated bank etc. have been laid down on FVCIs by SEBI (Foreign Venture Capital Investor) Regulations, 2000.
Risk Management	AD Category – I banks can offer forward cover to FVCIs to the extent of total inward remittance. In case the FVCI has made any remittance by liquidating some investments, original cost of the investments has to be deducted from the eligible cover to arrive at the actual cover that can be offered.
Valuation of Investments	The purchase/sale of shares, debentures and units can be at a price that is mutually acceptable to the buyer and the seller.
Regulations for FVCI	The FVCIs are governed by SEBI (Foreign Venture Capital Investor) Regulations, 2000 and statutory provisions contained in Foreign Exchange Management (Transfer or issue of security by a person resident outside India) Regulations, 2000 particularly in Schedule 6.

Private Equity

In India, the evolution of PE investments can be traced back to the formation of VC Funds in India. PE has now entered the economic mainstream and this segment has particularly gained momentum over the past few years. The concepts of VC and PE are very recent in India as compared to other countries like USA, UK, Europe, Israel etc. where it has been in existence since many years.

Market Design for Private Equity

Private Equity Players	Private equity players are established investment bankers and typically invest into proven/established businesses. PE funds/players are among the largest sources of funding for enterprises that are relatively secure with an established track record, requiring significantly large funds for expansion and growth. As such, they take reasonably well-defined risks and their exit strategy is usually up to the stage when the company goes public or gets acquired at high value. PE funds are generally seen to attract huge amount of capital from investors, including pension funds, insurance funds, university foundations and individuals. PE investors can be domestic or foreign private equity firms. Domestic PE firms are either established as trusts, or set up as a company. All Private equity (PE) investments from outside the country are either classified as Foreign Institutional Investment (FII) for investments in listed companies or Foreign Direct Investment (FDI) for investment in unlisted companies. If a PE investment takes place in an unlisted firm, it falls under India's FDI rules. A PE fund can also buy into listed companies. However, in order to do such investments, the PE fund has to become a registered FII.
Transactions by Private Equity	After registration as an FII, there are two kinds of transactions that can be entered by a PE Firm. <ul style="list-style-type: none"> • PIPE (Private Investment in Public Equity) Deals: In this type of transaction, the company sells shares directly to the PE Fund. Under the FII category, the Private investment in public equity (PIPEs) are large transactions contracted between the PE Fund. • Ordinary secondary market transactions (where the PE fund buys shares on the secondary market). These are pure FII transactions. <p>However, these two cases are differentiated by capital control³.</p>
Exit strategies of PEs	There are various forms of exit from an investment by a private equity investor. These are: <ul style="list-style-type: none"> • Direct sale to investors seeking a shareholding in a firm acquired by the fund. The initial public offering (IPO) is a preferred exit option in developed PE markets. • Post-purchase listing of the company permitting sale of equity through the stock market. • Sale to another private equity firm, referred to as a secondary buyout. • Mergers and acquisitions. As the Indian economy's growth has kept a steady pace, industry-wide consolidations are an attractive route for a PE investor to make an exit.

³ The structure of PE is taken from 'Indian Financial Markets', Ajay Shah, Susan Thomas and Michael Gorham.Pg.46 and Pg.215.

Regulations for Private Equity Investors	<p>The important statutes that require compliances for private equity investment in India are the Companies Act, 1956, the Foreign Exchange Management Act, 2000 and the Securities and Exchange Board of India Act, 1992 along with the rules and regulation therein. For tax exemption purposes, guidelines are issued by the Central Board of Direct Taxes (CBDT). PIPE deals are also governed by the SEBI Initial Capital Disclosure Requirements (ICDR) Regulations 2009, which deals with the regulations relating to QIBs and Preferential Placement.</p> <p>Foreign Direct Investments</p> <p>Most PE funds make FDI under the automatic route, which does not require any prior approval. However, there are certain sectors such as broadcasting, courier services, print media etc, in which investment is allowed with the approval of Foreign Investment Promotion board (FIPB). Further, FDI is prohibited in few sectors like multi-brand retail trading, gambling and betting etc.</p> <p>RBI follows definition of FDI given by IMF wherein PE investments more than 10 percent are treated as FDI.</p> <p>Foreign institutional investors</p> <p>Foreign institutional investors (FIIs), including private equity funds so registered, investing in the public markets, have to comply with the SEBI (Foreign Institutional Investors) Regulations, 1995. These limit FII investment in an Indian company to 10 percent of the capital, and limit the aggregate investments of all FIIs and its sub-accounts to 24 percent, the latter limit being amenable to modification subject to sectoral limits.</p>
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Market Outcome for PE/VC Investments in India

Growth in PE/VC deals in India⁴

The scenario of PE/VC investments caught momentum in the late 1990s with the growth of Indian IT companies and with the simultaneous global dot-com boom. On the back of global IT boom, Indian IT sector was viewed as a prominent funding opportunity and consequently saw a lot of venture capital coming into the country.

The number of PE/VC investments in India continued to slide for the second consecutive year in 2009. In the year 2009, 260 deals worth US \$ 12.05 billion were struck compared to that of 312 and 405 deals in 2008 and 2007 respectively. Albeit the number of PE deals contracted in 2009, the value of all such PE deals saw a y-o-y growth of 13.79%. Till 2009, maximum number of PE deals was struck in the year 2007 with 405 deals worth US \$ 19.03 billion. (Table 7-10 and Chart 7-4)

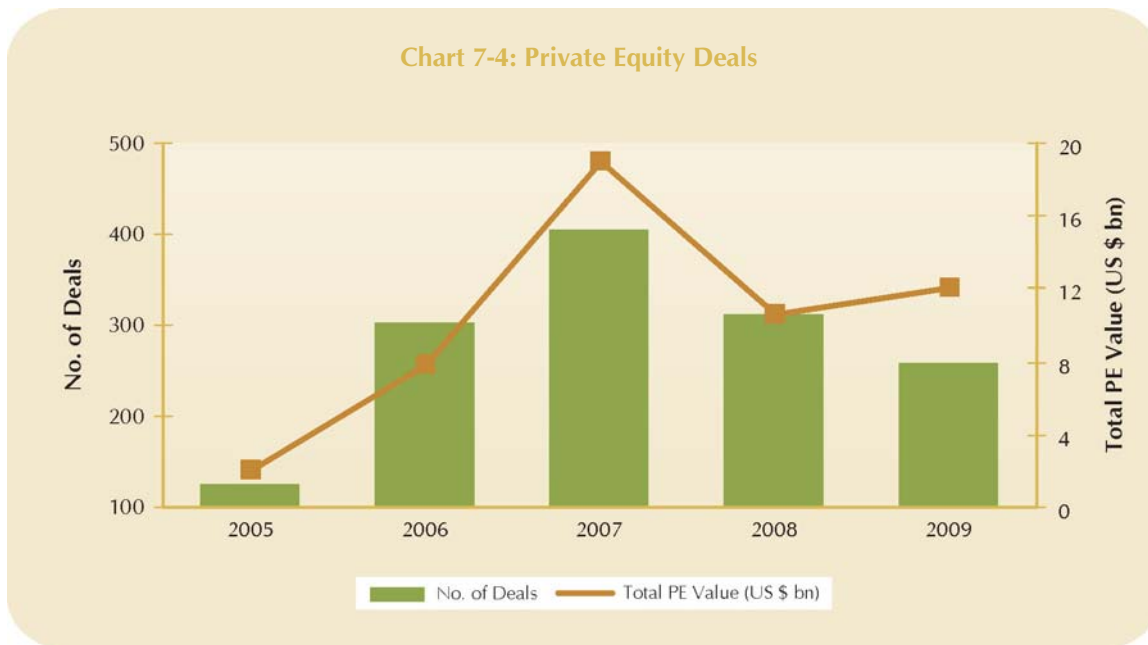
Table 7-10: Private Equity Deals in India

	No. of Deals	Total PE Value (US \$ bn)
2005	124	2.03
2006	302	7.86
2007	405	19.03
2008	312	10.59
2009	260	12.05

Source: Grant Thornton, Deal Tracker 2010

⁴ The market outcome of PE/VC investments is based on the data reported by Grant Thornton in Deal Tracker, 2009 which reports PE/VC deals together.





PE Fundraising/ Investments in BRIC countries

According to the data reported by Emerging Markets Private Equity Association (EMPEA), 2010 among the BRIC economies, China and India remained the most preferred destination for Private equity players in 2009. In the year 2009, the fundraising by private equity in China and India was US \$ 6,617 million and US \$ 3,999 million respectively. These two Asian countries, however, saw a decline in the PE fund raising by around 50% in 2009. The other two BRIC countries such as Brazil and Russia also experienced a significant cut in the PE fundraising during 2009⁵. (Table 7-11)

Table 7-11: Private Equity Fund Raising in BRIC Countries

(in US \$ mn)

Year	Brazil	Russia	India	China
2001	323	375	259	152
2002	270	100	142	105
2003	230	175	236	213
2004	480	200	706	311
2005	158	1,254	2,741	2,243
2006	2,098	222	2,884	4,279
2007	2,510	1,790	4,569	3,890
2008	3,589	880	7,710	14,461
2009	401	455	3,999	6,617

Source: Emerging Market Private Equity Association.

In 2009, all the BRIC countries saw a sharp decline in PE investments; Russia was worst hit with a year-on-year decline of 92%. China and India remained leading destinations for PE investments among the BRIC countries in 2009 notwithstanding the sharp y-o-y decline in such investment. (Table 7-12)

⁵ The data reported for India may not match here with the earlier section on 'Growth of PE/VC investments in India' because this data source is EMPEA and earlier data source is Grant Thornton which reports data for India only.

Table 7-12: Private Equity Investments in BRIC Countries

(in US \$ Mn)

Year	Brazil	Russia	India	China
2001	281	77	320	1,575
2002	261	127	40	126
2003	321	113	456	1,667
2004	120	240	1,272	1,389
2005	474	240	1,377	2,991
2006	1,342	402	5,687	8,200
2007	5,285	805	9,905	9,458
2008	3,020	2,647	7,483	8,994
2009	989	217	4,011	6,288

Source: Emerging Markets Private Equity Association.

ADRs and GDRs

Foreign investors may also invest in Indian companies through the purchase of American Depositary Receipts (ADRs) and Global Depositary Receipts (GDRs). Depositary receipts, whether ADRs or GDRs, are basically negotiable instruments denominated in U.S. dollars or another currency representing a publicly-traded issuer's local currency equity shares. They are created when the local currency shares of an Indian company, for example, are delivered to a depository bank's domestic custodian bank, against which the depository issues a depository receipt in U.S. dollars or another currency. Each depository receipt can represent one or more of the underlying shares. Indian companies are very familiar with the issuance of these instruments and have tapped the ADR/GDR market frequently to raise foreign capital. Because ADRs/GDRs represent the underlying shares of the issuing company, their value fluctuates along with the value of the underlying shares.

Foreign investors who wish to have their investment in an Indian company represented by a U.S. dollar denominated instrument can purchase ADRs/GDRs of the Indian issuer.

Non Resident Indians (NRIs) and Persons of Indian Origin (PIO)

Market Design

NRIs and PIO	<p>Non Resident Indian (NRI) means a person who has gone out of India or who stays outside India, in either case for or on taking up employment outside India, or for carrying on a business or vocation outside India, or for any other purpose, in such circumstances as would indicate his intention to stay outside India for an uncertain period. Simply, it means a person resident outside India who is a citizen of India or is a Person of Indian Origin.</p> <p>Person of Indian Origin means any person:</p> <ol style="list-style-type: none"> who at any time, held an Indian passport; or he/she or either of his/her parents or any of his /her grandparents was a citizen of India by virtue of the Constitution of India or the Citizenship Act, 1955(57 of 1955) or the person is a spouse of an Indian citizen or a person referred to in clause (a) or (b) above.
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<p>Rupee and Foreign Currency Accounts</p>	<p>1) Non-Resident (External) Rupee Accounts (NRE Accounts) NRIs and PIO, are eligible to open NRE Accounts. These are rupee denominated accounts. The balance in the account is freely repatriable.</p> <p>2) Ordinary Non-Resident Rupee Accounts (NRO Accounts) These are Rupee denominated non-repatriable accounts</p> <p>3) Foreign Currency Non Resident (Banks) Accounts (FCNR (B) Accounts) NRIs/PIO are permitted to open FCNR (B) Accounts in Canadian Dollars and Australian dollars also besides the existing provision of maintaining such accounts in US dollars, Japanese Yen, Sterling Pounds, Euro. The account may be opened only in the form of term deposit for any of the three maturity periods viz; (a) one year and above but less than two years (ii) two years and above but less than three years and (iii) three years only. Interest income is tax free in the hands of NRI until he maintains a non-resident status or a resident but not ordinarily resident status under the Indian tax laws. FCNR(B) accounts can also be utilized for local disbursements including payment for exports from India, repatriation of funds abroad and for making investments in India, as per foreign investment guidelines.</p>
<p>Portfolio Investments</p>	<p>Reserve Bank of India has granted general permission to NRIs/PIOs, for undertaking direct investments in Indian companies, under the Automatic Route, purchase of shares under Portfolio Investment Scheme, investment in companies and proprietorship/partnership concerns on non-repatriation basis and for remittances of current income. NRIs/PIOs do not have to seek specific permission for approved activities under these schemes.</p> <p>NRIs are permitted to make portfolio investment in shares/debentures (convertible and non-convertible) of Indian companies (except print media sector), with or without repatriation benefit provided the purchase is made through a stock exchange and also through designated branch of an authorised dealer. NRIs are required to designate only one branch authorised by RBI for this purpose. For NRIs to invest in Indian stock market, it is mandatory to have a PAN (Permanent Account Number) Card.</p> <p>NRIs are allowed to invest in shares of listed companies in recognised stock exchanges under the Portfolio Investment Scheme. NRIs can invest through designated Ads on repatriation and non-repatriation basis under the PIS route upto 5 percent of the paid up capital /paid up value of each series of debentures of listed Indian Companies. The aggregate paid-up value of shares / convertible debentures purchased by all NRIs cannot exceed 10 percent of the paid up capital of the company / paid up value of each series of debentures of the company. The aggregate ceilings of 10 percent can be raised to 24 percent, if the general body of the Indian company passes a special resolution to that effect.</p>
<p>Payment of Purchase of Shares / Convertible debentures</p>	<p>Payment of purchase of shares and/ or debentures on repatriation basis has to be made by way of inward remittance of foreign exchange through normal banking channels or out of funds held in NRE/FCNR (B) account maintained in India. If the shares are purchased on non-repatriation basis, the NRIs can also utilize their funds in NRO account in addition to above.</p>
<p>No Transferability of Shares purchase of stock exchanges is allowed</p>	<p>Shares purchased by NRIs on the stock exchange under PIS cannot be transferred by way of sale under private arrangement or by way of gift (except by NRIs to their relatives as defined in section 6 of the Companies Act 1956, or to a charitable trust duly registered under the laws in India) to a person resident in India or outside India without prior approval of the RBI.</p>

Investment Restrictions for NRIs/PIOs	Investments in shares or convertible debentures of an Indian Company engaged in following type of activities are not permitted. <ul style="list-style-type: none"> • Chit Fund or Nidhi Company • Agricultural or Plantation activities • Real Estate Business • Construction of farm houses or Dealing in Transfer of Development Rights (TDRs).
Investments Allowed to NRIs/PIOs	NRIs can invest in India as under: <ol style="list-style-type: none"> 1. Investment under Automatic Route with repatriation benefits 2. Investment with Government approval 3. Other investments with repatriation benefits 4. Investments upto 100% equity without repatriation benefits Other investments by NRIs without repatriation benefits
Investment by NRIs on Non-Repatriation Basis	NRIs intending to invest on non-repatriation basis should submit the application to a designated branch of an Authorised Dealer (AD). The AD will grant general permission to purchase shares/debentures to NRI subject to the condition that the payment for such investment is received through inward remittance or from the investor's NRE/FCNR/NRO Account. Investment on non-repatriation basis is allowed in the following instruments: <ul style="list-style-type: none"> • Government dated securities (other than bearer securities)/treasury bills. • Units of domestic mutual funds. • Units of Money Market Mutual Funds in India. • Non-convertible debentures of a company incorporated in India. • The capital of a firm or proprietary concern in India, not engaged in any agricultural or plantation activity or real estate business. • Deposits with a company registered under the Companies Act, 1956 including NBFC registered with RBI, or a body corporate created under an Act of Parliament or State Legislature, a proprietorship concern or a firm out of rupee funds which do not represent inward remittances or transfer from NRE/FCNR(B) Accounts into the NRO Account. • Commercial Paper issued by an Indian company. • Shares and convertible debentures of Indian companies other than under Portfolio Investment Scheme Securities acquired by NRIs under PI scheme on a non-repatriation basis can be sold without any permission on the floor of a stock exchange. Dividend and interest income is fully repatriable.
Investment on Repatriation basis	NRIs intending to invest with repatriation benefits should submit the application to the designated branch of AD. The AD will grant to NRI permission for purchase of shares/debentures subject to the conditions that - <ul style="list-style-type: none"> • The payment is received through an inward remittance in foreign exchange or by debit to the investor's NRE/FCNR account. • Investment made by any single NRI investor in equity/preference shares and convertible debentures of any listed Indian company does not exceed 5% of its total paid-up equity or preference capital or 5% of the total paid-up value of each series of convertible debentures issued by it. • NRIs take delivery of the shares/convertible debentures purchased and give delivery of the shares/convertible debentures sold under the Scheme. NRIs can freely sell securities acquired by them with repatriation benefits, without any permission, through a stock exchange. Dividend and interest income is also fully repatriable.



Investment in the units of domestic mutual funds on non-repatriation/repatriation basis	<p>Same procedure as indicated in paragraphs for Investment on Non-Repatriation Basis and Repatriation Basis above is applicable. However, approvals already granted for portfolio investment in shares/debentures of Indian companies will also be valid for purchase of units of domestic mutual funds.</p> <p>No investments can be made through foreign currency. All investments have to in Indian Rupees. A convenient way to invest would be through the NRE Accounts. Mutual Funds Scheme can be gifted to relatives in India by NRIs. If the investment is made on a repatriation basis, the net income or capital gains (after tax) arising out of investment are eligible for repatriation subject to some compliance. If the investment is made on a non-repatriation basis, only the net income, that is, dividend (after tax), arising out of investment is eligible for repatriation.</p> <p>Indexation benefit is made available to NRIs in case mutual fund units are held for more than twelve months.</p>
Investment in exchange trade derivative contracts	<p>NRIs are allowed to invest in Exchange Trade Derivative Contracts approved by SEBI from time to time of Rupee Funds held in India on non-repatriation basis subject to the limits prescribed by SEBI.</p> <p>Shares purchased by NRIs on the stock exchange under the Portfolio Investment Scheme cannot be transferred by way of sale under private arrangement or by way of gift to a person resident in India or outside India without prior approval of RBI.</p>
Monitoring of Investment Position by RBI	<p>Reserve Bank of India monitors the investment position of FIIs/NRIs in listed Indian companies reported by Custodian / designated AD banks on a daily basis.</p> <p>The concept of caution list/ban list is same as discussed under the market design for FIIs.</p>

NRI Investments

The NRI turnover data at NSE is depicted in table 7-13. NRI turnover at the cash market of NSE registered a year-on-year growth of 106% in 2009-10 and stood at ₹ 103,545 million. In the derivatives market of NSE, total NRI turnover stood at ₹ 42,645 million in 2009-10, a y-o-y growth of 41% over 2008-09.

Table 7-13: NRI Turnover at NSE

Year	Cash Market Gross Turnover (₹ mn)	Derivatives Market Gross Turnover (₹ mn)
2007-08	85,443.35	39,464.26
2008-09	50,161.38	30,190.46
2009-10	103,545.90	42,645.70

Source: NSE

Way Forward

PE has entered the economic mainstream and has gained a lot of momentum over the past few years. Though PE firms have shown their interest in India on the back of robust economic growth and financial opportunities in the country, there is further scope for enhanced investments by them. A main barrier to entry for PE's in India are complex regulatory issues relating to sector investment and ambiguities in the interpretation of tax codes as well as the regulatory costs. Moreover, what aggravates the problem is that there are multiple regulations with little harmonization of guidelines across government agencies and regulators; viz, SEBI, RBI, Central Board of Direct Taxes (CBDT) and Ministry of Company Affairs. The important statutes that require compliances for PE investment in India are the Companies Act, 1956, the Foreign Exchange Management Act, 2000 and the SEBI Act, 1992 along with the rules and regulation therein. For tax purposes, guidelines are issued by the CBDT. PIPE deals are also governed by the SEBI ICDR Regulations, which deals with the regulations relating to QIBs and Preferential Placement. Specifically, PE funds are covered under FVCI (Foreign Venture Capital Investor) regulations as there are no separate guidelines for PE funds. PE needs to be defined as a separate asset class with separate regulations/guidelines. The definition needs to appreciate that PE is long-term capital, unlike a hedge fund where main motives are short-term gains.

With a view to rationalizing the present arrangements relating to foreign portfolio investments by FIIs/ non-resident Indians (NRIs) and other foreign investments like foreign venture capital investor (FVCI) and private equity entities, the Government set up a working group under the Chairmanship of Shri U K Sinha to look at various types of foreign flows, which are taking advantage of arbitrage across the respective stand-alone regulations, and generate recommendations to the Government. The group submitted its report to the Finance Secretary on 30 July 2010. The group examined the structure of regulation and the ways in which practices, institutions, and procedures inflect and shape these policy decisions. It looked at foreign exchange law with regard to listed and unlisted equity, corporate and government securities, and derivatives as well as tax policy related to these matters. The group's report also offers, alongside economic policy contextualizing capital flows in relation to the Indian and global economies, close scrutiny of the structures and incentives created by the law in the main areas of the report's mandate: foreign exchange controls with regard to listed and unlisted equity, corporate and government securities regulation, and derivatives trading. The focus of the group has been to identify procedures and practices which can help avoid uncertainty, delay, or unequal treatment and to recommend measures which could simplify the portfolio investment environment, at the same time laying a strong emphasis on KYC norms. Some of the important recommendations of the Working Group is given in Box 7-1.

Box 7-1: Report of the Working Group on Foreign Investment

Some of the recommendations give by the Committee are as follows:

- Create a financial sector appellate tribunal, or extend the authority of the Securities Appellate Tribunal, to hear appeals on all aspects of capital flows management regulations
- Create a single window for registration and clearance of portfolio investment regulations that does not distinguish between investor classes.
 - (a) Qualified depository participants ("DPs"), with global presence through branch network and agency relationships would be legally responsible for enforcing OECD-standard KYC requirements;
 - (b) Such global DPs would have higher capital requirements and would need to pass a detailed "fitness test" administered by SEBI;
 - (c) FIIs, FVCIs and NRIs would be abolished as an investor class.
- Promulgate broader KYC requirements that meet OECD standards of best practices.
- Consistent with Lahiri Committee recommendations, in areas where there are no separate ceilings by an Act of Parliament, QFI investment ceilings should be reckoned over and above prescribed FDI sectoral caps.
- Extend the QFI model, our single window for clearance of portfolio investment regulations, to debt investments as well.
- Extend consumer protection guidelines for investment in foreign securities under the Liberalised Remittance Scheme to investments in debt securities.
- Exempt investment by Indian residents in derivatives trade abroad up to the US \$200,000 limit under the Liberalised Remittance Scheme from further regulation. Specifically the ban on taking margin payments should be restated to hold that, when taking margin payments, total liability should not exceed the LRS limit.
- The proposal of the Draft Direct Taxes Code to deem income of FIIs as income from capital gains should be broadened to cover all non-resident investors including private equity funds.
- Harmonize the regulation of futures, forwards and options. There should be a general policy preference to encourage greater trade in exchange-traded, as opposed to over-the-counter derivatives.



Knowledge Initiatives

Several initiatives have been taken over the last few years with a view to develop the skills of market intermediaries, educate the investors and promote high quality research in the securities market.

Quality Intermediation

In some of the developed and developing markets, there is a system of testing and certification for persons joining market intermediaries. This ensures that these personnel have a minimum required knowledge about the market and the existing regulations. The benefits of this system are widespread. While the intermediaries are assured of qualified staff, the employees get an opportunity to improve their career prospects. This in turn instills confidence in the investors to be associated with the securities market. The formal educational or training programme on securities markets is not adequate to cover their areas of operations. For instance, no academic course teaches how to maintain depository accounts or to sell mutual fund products, issue contract notes or clear and settle trades on a stock exchange. As a result, a need for certification was being increasingly felt by the regulators as well as by the securities industry.

NSE's Certification in Financial Markets (NCFM)

National Stock Exchange's Certification in Financial Markets (NCFM), is an online testing and certification process. The entire process from generation of question papers to testing, assessing, scores reporting and certifying is fully automated. It allows tremendous flexibility in terms of testing centres, dates and timing by providing easy accessibility and convenience to candidates as they can be tested at any time and from any location. The purpose is to test the practical knowledge and skills that are required to operate in the financial markets.

NCFM offers a comprehensive range of modules covering many different areas in finance. NCFM currently tests expertise in the modules mentioned below in Table 8-1.

NCFM introduced several new modules in 2010. On January 11, 2010 a module on 'Interest Rate Derivatives: A Beginner's Module' was introduced. This module aims at creating a better understanding of the concepts underlying the money market and giving insights into the operations related to the trading of interest rate derivatives. The 'Investment Analysis and Portfolio Management' module was launched on March 19, 2010 which aims at providing an overview of the various investment instruments in the financial markets with details on evaluating investment opportunities to satisfy risk-return objectives of investors. On May 25, 2010 a module on 'Commercial Banking in India: A Beginner's Module' was launched. This module aims at providing some basic insights into the policies and practices currently followed in the Indian banking system.

8-1: NCFM Module Test Details

Sr. No.	Name of Module	Fees (₹)	Test Duration (in minutes)	No. of Questions	Maximum Marks	Pass Marks (%)	Certificate Validity (in years)
1	Financial Markets: A Beginners' Module *	1500	120	60	100	50	5
2	Mutual Funds : A Beginners' Module	1500	120	60	100	50	5
3	Currency Derivatives: A Beginner's Module	1500	120	60	100	50	5
4	Equity Derivatives: A Beginner's Module	1500	120	60	100	50	5
5	Interest Rate Derivatives: A Beginner's Module	1500	120	60	100	50	5
6	Commercial Banking in India: A Beginner's Module	1500	120	60	100	50	5
7	Securities Market (Basic) Module	1500	105	60	100	60	5
8	Capital Market (Dealers) Module *	1500	105	60	100	50	5
9	Derivatives Market (Dealers) Module *	1500	120	60	100	60	3
10	FIMMDA-NSE Debt Market (Basic) Module	1500	120	60	100	60	5
11	Investment Analysis and Portfolio Management Module	1500	120	60	100	60	5
12	Certified Personal Financial Advisor (CPFA) Examination	4000	120	80	100	60	3
13	NSDL-Depository Operations Module	1500	75	60	100	60 #	5
14	Commodities Market Module	1800	120	60	100	50	3
15	Surveillance in Stock Exchanges Module	1500	120	50	100	60	5
16	Corporate Governance Module	1500	90	100	100	60	5
17	Compliance Officers (Brokers) Module	1500	120	60	100	60	5
18	Compliance Officers (Corporates) Module	1500	120	60	100	60	5
19	Information Security Auditors Module (Part-1)	2250	120	90	100	60	2
	Information Security Auditors Module (Part-2)	2250	120	90	100	60	
20	Options Trading Strategies Module	1500	120	60	100	60	5
21	FPSB India Exam 1 to 4**	2000 per exam	120	75	140	60	NA
22	Examination 5/Advanced Financial Planning **	5000	240	30	100	50	NA
23	Equity Research Module ##	1500	120	65	100	55	2
24	Issue Management Module ##	1500	120	80	100	55	2
25	Market Risk Module ##	1500	120	50	100	55	2
26	Financial Modeling Module ###	1000	150	50	75	50	NA

* Candidates have the option to take the tests in English, Gujarati or Hindi languages.

Candidates securing 80% or more marks in NSDL-Depository Operations Module ONLY will be certified as 'Trainers'.

** Following are the modules of Financial Planning Standards Board India (Certified Financial Planner Certification)

- FPSB India Exam 1 to 4 i.e. (i) Risk Analysis & Insurance Planning (ii) Retirement Planning & Employee Benefits (iii) Investment Planning and (iv) Tax Planning & Estate Planning

- Examination 5/Advanced Financial Planning

Modules of Finitatives Learning India Pvt. Ltd. (FLIP)

Module of IMS Proschool

The curriculum for each of the modules (except Modules of Financial Planning Standards Board India, Finitatives Learning India Pvt. Ltd. and IMS Proschool) is available on our website: www.nseindia.com > NCFM > Curriculum & Study Material.



NSE Certified Market Professional (NCMP)

NSE Certified Market Professional (NCMP) certificates are issued to those candidates who have cleared NCFM modules as prescribed by the exchange. This certification was launched on August 17, 2009 as per the below given eligibility criteria. This hierarchy of certifications is aimed at enabling the candidates to better demonstrate their domain knowledge relating to financial markets. Thus, a candidate clearing 3 – 4 modules would be given “NCMP Level 1” certificate and so on. Currently there are 14 modules qualifying for the NCMP certification which are available on the NSE website.

- NCMP Level 1: 3 – 4 modules
- NCMP Level 2: 5 – 6 modules
- NCMP Level 3: 7 – 8 modules
- NCMP Level 4: 9 or more modules

CBSE – NSE joint certification in Financial Markets

CBSE and NSE introduced a joint certification in Financial Markets for Std. XI and XII. The course, titled “Financial Markets Management (FMM)” had been introduced by CBSE for academic year 2007 - 2008. The course comprises of various subjects, such as Languages, Economics, Business Studies, Accounting for Business etc. Besides these, two financial market related subjects, “Introduction to Financial Markets – I” and “Introduction to Financial Markets – II” are taught in Std. XI and XII respectively. Students opting for the course are required to take the NCFM on-line tests in “Financial Markets: A Beginners Module” in Std. XI and both “Capital Markets (Dealers) Module and Derivatives Markets (Dealers) Module”, in Std. XII. The course is in its second year and over 1500 students are enrolled for the course. This is the first such attempt to introduce financial literacy in a formal way in schools.

The course has completed three years till 2009-10 during which period 92 schools have opted for CBSE – NSE certification and 1664 candidates have successfully qualified for the CBSE-NSE joint certification in Financial Markets.

NSE-Manipal Education Training Programs on Stock Markets

NSE has joined hands with Manipal Education, one of India’s premier educational institutions, to impart training with the aim of improving the participants’ understanding of how the stock markets function. These programs are designed to cater to people interested in a career in stock markets and other related financial services and also to those who wish to learn about the functioning of the securities markets. It provides relevant tools and techniques that give an in-depth understanding of the various facets of the stock market. Several training programs are currently being offered over multiple days in a month across various cities in India.

NSE Certified Capital Market Professional (NCCMP)

NSE, in collaboration with reputed colleges and institutes in India, has been offering a short-term course called NSE Certified Capital Market Professional (NCCMP) since August 2009, in the campuses of the respective colleges/institutes. The aim of the NCCMP Program is to develop skills and competency in securities markets. It is a 100 hours program, spanning over 3–4 months and covering theoretical and practical training in subjects related to capital markets. Successful candidates are awarded joint certification from NSE and the concerned college. NCCMP covers an array of subjects pertaining to the capital markets, such as equity markets, debt markets, derivatives, macroeconomics, technical analysis and fundamental analysis.

Basic Financial Literacy Course

NSE has joined hands with Maharashtra Knowledge Corporation Ltd. (MKCL) to launch a course in basic financial literacy. The aim of the course is to educate learners on simple concepts of personal finance. The course covers in a simple language topics such as income, taxation, expenditure, savings & investment avenues, borrowing, managing risk, budgeting etc. Participants would also learn about various financial institutions and in what ways they can benefit from

these institutions. The course helps participants to become aware of different products through which they can meet their financial needs and learn about the benefits of prudent financial behavior. The course comprises of 14 modules of approximately 60 minutes each. At the end of the course, there would be an online examination and successful candidates will be provided with an NSE-MKCL certification in basic financial literacy.

Research Initiative

Knowledge management is very important in today's competitive world. It acts as a tool which helps to acquire the cutting edge in a globalised financial market. The regulators and SROs have been actively promoting academicians and market participants to carry out research on the various segments of securities markets. During the year 2010 three research papers were completed under the NSE Research Initiative. While the completed papers are available on the NSE website, we present here non-technical abstracts of these papers.

1. Determinants and the Stability of Dividends in India

By Dr. Manoj Subhash Kamat and Dr. Manasvi Manoj Kamat

This paper improves on earlier research on stability and determinants of dividend policies by using a more advanced estimation methodology, a larger and more representative sample of panel data (PD), and different proxies for a longer time window 1971-2007. It is aimed to find whether the Indian private corporate sector follow stable cash dividend policies, whether dividends smoothen earnings in India, to estimate the implicit target payout ratio and speed of adjustment of dividends towards a long run target payout ratio.

We further test applicability of dividend stability hypothesis and add to the relatively limited literature on aspects of dividend decision by examining the dynamics of relationship between dividend payouts and a host of other explanatory variables. We estimate the basic static PD model, GMM-in-Levels {GMM (in-Lev)} model, and its other variations GMM-in-first-differences {GMM (in-Diff)} and GMM-in-Systems {GMM (in-Sys)} so to include other lag structures. This procedure shows us how much the size of the dividend determinants, the speed of adjustment coefficient and the one of the implicit target payout ratio varies across the different estimation techniques. In addition, it will also be useful to compare our results with those of Pooled OLS-estimation with alternate data definitions for checking the robustness of the results.

2. Forecasting of Indian Stock Market Index using Artificial Neural Network

By Manna Majumder and MD Anwar Hussian

This paper presents a computational approach for predicting the S&P CNX Nifty 50 Index. A neural network based model has been used in predicting the direction of the movement of the closing value of the index. The model presented in the paper also confirms that it can be used to predict price index value of the stock market. After studying the various features of the network model, an optimal model is proposed for the purpose of forecasting. The model has used the preprocessed data set of closing value of S&P CNX Nifty 50 Index. The data set encompassed the trading days from 1st January, 2000 to 31st December, 2009. In the paper, the model has been validated across 4 years of the trading days. Accuracy of the performance of the neural network is compared using various out of sample performance measures. The highest performance of the network in terms of accuracy in predicting the direction of the closing value of the index is reported at 89.65% and with an average accuracy of 69.72% over a period of 4 years.

3. Is it Heterogeneous Investor Beliefs or Private Information that Affects Prices and Trading Volume?

By Sugato Chakravarty and Rina Ray

A large fraction of the behavioral finance literature is based on a "disagreement" model, an important component of which is heterogeneous priors. Heterogeneous priors usually rely on some form of public information. While some investors may be especially skillful in "interpreting" public information and arriving at heterogeneous priors, public information can also trigger private signals. Once private information is introduced into the system, to effectively test such models of heterogeneous priors, the empiricist has to address the "joint behavior" of price and trading volume. In this paper we make such an attempt. Using a new dataset from India, we pit heterogeneous priors against private information to test



the explanatory power of such heterogeneous priors. Our measure of heterogeneous priors is based on abnormal order data submitted by institutions, high net worth individuals and retail investors for a sample of Indian IPOs. Our measure of private information is the probability of informed trade (PIN) commonly used in market microstructure literature and computed from high frequency transaction data. While we find that private information dominates heterogeneous priors in explaining trading volume, heterogeneous priors measure dominates imbalance in trading frequency or net buy, i.e. the difference between buy and sell trades. Further, heterogeneous priors affect prices significantly through this trading imbalance. The price impact of our heterogeneous belief measure could be interpreted either as a behavioral bias or as an information processing, and analyzing, cost.

Data Dissemination

NSE compiles, maintains and disseminates high quality data to market participants, researchers and policy-makers. This acts as a valuable input for formulating strategy, doing research and making policies. The data and info-vending services of National Stock Exchange (NSE) are provided through DotEx International Limited (DoteEx) which is a separate professional set-up dedicated solely for this purpose. DotEx provides NSE's market quotes and data for various market segments. DotEx currently provides the following five products: (i) *NSE's online Real Time Data Feed* is high speed streaming data providing Stock Exchange trade quotations and other related information pertaining to the trading on the Capital Market, Wholesale Debt Market, Futures and Options Segments, Securities Lending & Borrowing Market and Currency Derivatives Market Segment of NSE. NSE's real time data is provided in three levels i.e. level 1, level 2 and tick by tick; (ii) NSE's 5-minute, 2-minute and 1 minute Snapshot Data feed contains data pertaining to stock exchange trade quotations and other related information pertaining to the trading on various market segments of National Stock Exchange of India Limited; (iii) *NSE's End of Day data* contains the End of Day bhavcopy information along with security and trade details pertaining to the Capital Market, Wholesale Debt Market and Futures and Options Segments of National Stock Exchange of India Limited (iv) *Historical Data* is provided on DVDs/CDs. The historical data is available for the Capital Market Segment, Futures & Option Segment and Wholesale Debt Market Segment. Historical Data contains (a) Day wise bhavcopy for each trading day, (b) Circulars issued by NSE or NSCCL during the month, (c) masters containing information like symbols, series, ISINs etc., (d) snapshots of the limit order book at four time points in the day and (e) trades data containing details about every trade that took place; (v) *Corporate Data* contains data pertaining to company fundamentals, corporate announcements and shareholding pattern.

Investor Awareness and Education

NSE has been carrying out investor awareness and education seminars on a regular basis in various centres across the country. Informative brochures and booklets have been prepared for educating investors which are distributed free of cost at the seminars. 1000 Investor Awareness Programmes were conducted during the year 2010.

`Visit to NSE' Program

It has been the endeavor of NSE to spread knowledge about financial markets as widely as possible. As part of this endeavor, NSE has been organizing the 'Visit to NSE' Program, under which groups of students visit NSE to attend a 2-hour session. The session includes lecture on 'Overview of the Exchange', 'Capital Markets', 'Derivative Markets' and NSE's NCFM certification which not only expands their knowledge base, but also improves their career prospects. In this session, the students learn about stock exchange structure, its operations, products traded on it and so on. This program is conducted in the Mumbai office as well as the regional offices located at Delhi, Kolkata and Chennai.

Around 75 colleges have visited the Exchange till December 2010.

Investor awareness efforts for Currency Derivatives

National Stock Exchange of India Ltd is pioneer in the development of Indian securities market and various reforms including creation of a vibrant derivatives market. Over the years, NSE has taken many new initiatives to strengthen the securities industry. With evolving needs of the market, NSE has launched several new products and has attracted active

participation from various categories of market participants. Within two year of launching Currency Future in India, NSE has launched currency options on USD-INR currency pair on October 29, 2010.

Focused efforts have been made to enhance knowledge and understanding of both the new and existing product categories through various interactive sessions and training programs to NSE Members, Sub-brokers and Investors. A total of 675 programs have been conducted in 95 locations across the country partnering more than 160 members. These training and awareness programs included topics on Currency Derivatives, ETFs, Mutual Fund Service Systems, Interest Rate Futures and Investor Awareness programs focused on Exchange Traded products. The participants include corporate, importers- exporters, banks, individual clients, NSE members, their Branches and sub brokers.

