Chapter III

Financial Sector: Regulation and Developments

Following the global financial crisis, the revamped bank capital regime globally appears to have increased systemic resilience. In the global financial markets, transition to a post LIBOR world remains a work in progress. On the domestic front, the Reserve Bank initiated several policy measures to deepen the G-Sec and Repo markets. In the capital market, higher investment through SIPs in mutual funds remains a bright spot. The Securities and Exchange Board of India (SEBI) has taken several steps to further strengthen the surveillance and integrity of the derivatives, mutual funds and commodity derivatives markets besides enhancing disclosure and transparency standards for credit rating agencies.

The new insolvency and bankruptcy regime, which came into effect in 2016 has been providing a market driven, time-bound process for insolvency resolution of a corporate debtor, thereby helping financial institutions to clean up their balance sheets. Most importantly, it is aiding a paradigm shift in the extant credit culture and discipline.

Pension Fund Regulatory and Development Authority (PFRDA) continues to bring more and more citizens under the pension net. The regulator changed the investment guidelines for the National Pension System (NPS) to limit exposure to Equity Mutual Funds.

With the initiation of the process to identify Domestic Systemically Important Insurers (DSII), implementation of risk-based capital (RBC) & Operationalisation of CERT-Fin, Insurance Regulatory and Development Authority of India (IRDAI) is trying to strengthen the resilience of the Insurance sector.

Engagement with Fintech and Suptech is increasing. The challenge for the regulator is to balance efficiency with prudential measures to mitigate risks to be able to harness the opportunities offered by Fintech.

Section A International and domestic developments

I. Banks

a) International regulatory and market developments

3.1 The Bank for International Settlements (BIS), in its Annual Economic Report (AER) released in June 2018¹ noted that Basel III capital requirements fortify banks against the risks of failure. Its findings show that the likelihood of a bank suffering distress within a 2-year period falls as its Tier-1 risk-based capital ratio increases and goes down further if a high leverage-based Tier-1 capital ratio is also maintained. The report highlighted the complementary nature

of Tier-1 Capital ratio and the leverage ratio-based regulations.

3.2 The AER, however, notes two areas where it feels that more action is needed to increase resilience. The first concerns the link between resilience and regulatory reporting requirements leading to increasing risk of regulatory arbitrage. One such example relates to banks' 'window-dressing' around regulatory reporting dates. The second area of concern, relates to the 'outlook for bank profitability'. While significant progress has been made in terms of balance sheet and business model

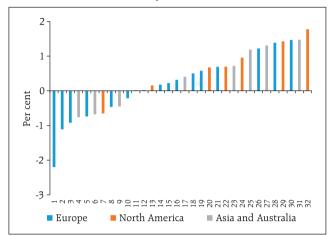
¹ Available at: https://www.bis.org/publ/arpdf/ar2018e.pdf

adjustments for banks, market valuations for many of them point to continued investor scepticism about their profitability prospects. Such scepticism about the valuation depresses market-based resilience measure such as the market leverage ratio or credit default swap spreads; in other words, investors penalise banks for poor profitability outlook, prompting them not to undermine the importance of maintaining short-term profit projections even if such outcomes are beneficial in the long run.

The AER also argues that constraints on 3.3 banks' internal models are required to prevent the 'gaming' of capital requirements and to make riskweighted asset (RWA) measures more comparable across the sector. A BCBS² study referred to in the report finds that such 'unwarranted' variability can be material. The study, which assumes a benchmark capital ratio of 10 per cent shows that two banks with identical banking book assets might report capital ratios that show a difference of up to 4 percentage points (Chart 3.1). Additionally, the study also finds that in many cases, internally modelled risk weights were substantially lower than those under the standardised approach – for corporate exposures, by up to more than 60 per cent (Chart 3.2) and such an observed wedge and associated capital relief are difficult to justify. Such gaming of capital requirements may also have implications for modelbased expected credit loss (ECL) estimation under the International Financial Reporting Standards (IFRS).

3.4 Central banks and financial market regulators have set in motion a drive to reform the interest rate benchmarks³. These benchmarks are referenced for a large volume and broad range of financial products and contracts including derivatives, loans and securities. The Financial Stability Board (FSB) has been monitoring progress on three work streams *viz.*,

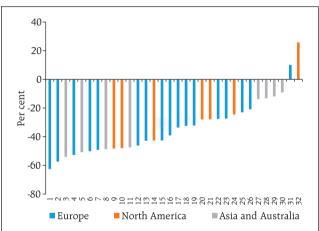
Chart 3.1: Variability in capital adequacy induced by use of internal risk models: 32 major financial institutions



Note: A change from the 10 per cent benchmark capital ratio if banks' own modelimplied (IRB) risk weights were adjusted to the median risk weight reported by all banks. Based on risk assessments by 32 major financial institutions of an identical (hypothetical) portfolio of sovereign, bank and corporate exposures; grossed up to the overall RWA level, holding all other RWA components stable.

Source: BIS Annual Economic Report, 2018

Chart 3.2: Comparison of risk weights based on internal models & Standardised Approach: 32 major financial institutions



Note: Percentage difference from standardised approach (SA) risk weights. Source: BIS Annual Economic Report, 2018

² Basel Committee on Banking Supervision

³ Available at: https://www.bis.org/review/r180523b.htm

- (1) strengthening the inter-bank offer rates (IBORs) by fixing them to a greater number of transactions, (2) identifying appropriate alternative risk-free rates and encouraging derivatives to be referenced to them instead of the IBORs and, (3) having robust fall-back provisions for the contracts referenced to IBORs to reduce financial instability if an IBOR is discontinued.
- 3.5 About USD 350 trillion worth of contracts across the globe are pegged to LIBOR which is the key interest rate benchmark for several major currencies. Many of the current contracts would extend beyond 2021 (it has been proposed that LIBOR would cease to exist beyond this). The transition to alternative reference rates will involve considerable efforts for users of LIBOR for amending the contracts and updating the systems. Yet, when it comes to such a significant reform, the authorities concerned are not retreating in the matured financial markets.
- 3.6 On its part, the Federal Reserve (US FED) recently started disseminating three new benchmark rates. One of these, the Secured Overnight Financing Rate (SOFR) is endorsed by the Federal Reserve Bank of New York as an alternative to US Dollar LIBOR (USD-LIBOR). For the British pound, the reformed Sterling Overnight Index Average (SONIA) has been acknowledged as the alternative risk-free rate. Europe is seeking to replace the current euro benchmarks - the Euro Overnight Index Average (EONIA) and the Euro Interbank Offered Rate (EURIBOR) and has proposed a Euro Short-Term Rate (ESTER) as the new risk-free rate. One issue, however, is that while most of the chosen risk-free rates are overnight rates, the LIBOR includes credit

- risk and is a term rate. Thus, the key challenge is agreeing to a standard methodology for calculating credit and term spreads that can be added to the risk-free rate to construct a fall-back for LIBOR. While the predominant replacement for LIBOR benchmarks are seen to be overnight secured rates, some market participants might prefer term rates as replacements. In any case, a transition may disrupt interest rate swap (IRS) market and valuations. At the same time, the introduction of higher capital charges for illiquid trades as per the forthcoming Fundamental Review of the Trading Book (FRTB)⁴ makes the transition to alternative risk-free rates an expensive task for banks as well.
- 3.7 India's position in priority as well as non-priority areas of Financial Stability Board (FSB) has improved compared to the last year as per the 2018 FSB Annual Report to G-20, due to the coordinated efforts of the government and financial sector regulators. The improvement in priority areas are particularly in "compensation", "transfer/bridge/run-off power for insurers", and "Over the Counter Derivatives Trade Reporting and Platform Trading". As per the latest status of "Implementation Monitoring Network Survey", India is shown as "Implementation completed in 20 out of 22 recommendations" of non-priority areas of FSB.
- 3.8 In other major developments, the impending Brexit will limit the access of EU households and corporates to financial services provided in the UK which may have implications for market liquidity and risk premia. Taking into consideration a 'Nodeal Brexit' scenario, EU financial institutions, counterparties and investors should be preparing for an appropriate action plan.

⁴ **Fundamental Review of the Trading Book or FRTB** –address Basel 2.5 issues such as capital arbitrage between banking and trading books, and internal risk transfers. It establishes a more objective boundary between the trading book and the banking book, thus eliminating capital arbitrage between the regulatory banking and trading books. FTRB changes the method used to determine market risk capital. Instead of VaR with a 99 per cent confidence level, it uses expected shortfall (ES) with a 97.5 per cent confidence for a better reflection of "tail risk" and capital adequacy during periods of significant financial market stress.]

b) Domestic regulatory and market developments

3.9 The recent developments with regard to IL&FS highlight the complexities that can be associated with financial conglomerate (FC) structures and their oversight (Box 3.1).

3.10 To manage the banking system's liquidity more efficiently, banks have been allowed an enhanced incremental carve out of 2 per cent taking the total carve-out from Statutory Liquidity Ratio (SLR) holdings to 13 per cent of their net demand

Box 3.1: Financial conglomerates - identification and oversight - A closer look

A financial conglomerate (FC) is a group of entities whose activities are in the financial sector. While this definition typically covers a wide swathe of firms of varying sizes, regulatory jurisdictions typically impose additional conditions so as to specifically focus on financial conglomerates whose activities have significant externalities to the financial system at large.

In Miller and Modigliani's classical world of frictionless markets and no information asymmetry, the capital structure of a firm is irrelevant as investors can attain their desired risk level through diversification based on their risk appetite. In such a world a firm is thus only rewarded for that part of its risks that are not diversifiable (that is systemic risk). Firms, however, do care about their risk profiles because the reality is different from the frictionless world assumed by Miller and Modigliani. Information flow, taxes, bankruptcy costs, information and incentive imperfections, economies of scope and diversification benefits (including access to *internal capital markets*⁵) provide motivations for a conglomerate structure.

As the IL&FS incident in the domestic financial markets illustrates, conglomerate structures also pose some clear risks: intra-group transactions create opportunities for regulatory arbitrage by bypassing regulations related to exposure norms and opportunities to mask leverage through double gearing and complex inter-group structures, leading to a possible spillover of risks to the financial system in times of business turmoil.

The FC oversight structure as it is currently practiced in India is explained further and the underlying reasons that allowed some of the FCs to fall through the gaps in oversight mechanism are enumerated below.

At present, the oversight of financial conglomerates is being carried out by an Inter Regulatory Forum for

monitoring Financial Conglomerates (IRF-FC), which is one of the four working groups set up under the aegis of the FSDC Sub-Committee (FSDC-SC). The Working Group is modelled under the lead regulator principle. The rest of this box examines (a) current procedures for identifying FCs (b) oversight structure of FCs; and (c) action triggers.

(a) Identification of FCs

In India, the Inter Regulatory Forum (IRF) adopted the following definition for identifying an FC under IRF oversight in 2013:

'A group would be identified as an FC on the basis of *its significant presence* in two or more market segments (Banking, Insurance, Securities, Non-Banking Finance and Pension Fund).'6

Accordingly, quantitative and objective criteria were laid out to identify *significant presence* in each of these market segments. Interestingly a group which has significant cross-sectoral activities but does not have a significant presence in at least two sectors as measured by the criteria is not covered by this definition. While significant presence in activities is a major contributor to an entity's systemic risk, it is not the only contributor.

Complex and camouflaged inter-group linkages through credit support and potency of spillover effects in times of turmoil (through banking sector linkages) are thus becoming important considerations for identifying FCs in the Indian context. In addition, it is also important to have an oversight of groups which are engaged in financial intermediation with significant spillover potential and yet have a significant part of their group revenue coming from non-financial businesses.

(Contd...)

⁵ Internal capital markets allocate capital to a financial conglomerate's various subsidiaries based on maximisation of potential expected returns. Access to such markets is also often taken into consideration for credit rating purposes.

⁶ Reform in the financial services industry: Strengthening Practices for a More Stable System, Institute for International Finance, December-2009

(b) Oversight of FCs

The Financial Conglomerate Returns (FINCON) submitted by the FCs on a quarterly basis capture the following information with respect to liquidity management:

- a) Intra-group transactions covering short term lending, placement of deposits, investments in bonds/debentures, Commercial Paper (CP), Certificate of Deposits (CDs), units of mutual funds, *etc.* within the group entities. This information is captured as an outstanding amount at the end of every quarter, as also the changes therein during the quarter. This helps in ascertaining the movement of funds within the group entities.
- b) A revised FINCON returns format due to be introduced aims to capture additional detailed information related to borrowings made by each group entity in an FC. Further, the bifurcation in terms of short-term borrowings (up to 1 year) and long-term borrowings (more than one year) will also be obtained. This will help in ascertaining the dependence of the FC's group entities on banks and short-term borrowings.

While the information set is fairly exhaustive, it is backward looking and may not capture emerging risks and vulnerabilities adequately. SEBI has recently overhauled the disclosures by Credit Rating Agencies (CRAs). The enhanced disclosures pertain to parent / group/government support, liquidity position (including forward looking measures for non-banks like unutilised credit lines and adequacy

of cash flows for servicing maturing debt obligation). Incorporation of such disclosures in the analysis as also periodic discussions with the rating agencies will significantly enrich the quality of the quarterly analysis.

(c) Action triggers

A risk sensitive FC oversight regime where the intrusiveness of oversight of FCs is proportionate to a combination of (a) the size of the entity, and (b) the likelihood of an adverse event, (say, over a one-year horizon) may make possible remedial measures more timely. Some of the suggestive trigger events for conducting an FC's assessment may be adverse rating action, unutilised credit lines falling below a certain threshold and bunching of maturing liabilities.

To conclude, while the current FC oversight undertaken by IRF-FC generally satisfies all the relevant guidelines of BIS on financial conglomerate supervision, there is possibly some scope to further fine-tune them to Indian conditions to identify relevant FCs, incorporate market-based feedback in FC assessment and have proportionate triggers for timely action.

References:

Basel Committee on Banking Supervision (2012): "Principles for the supervision of financial conglomerates", available at: https://www.bis.org/publ/joint29.htm.

Institute of International Finance (2009): "Reform in the financial services industry", available at:https://www.iif.com/system/files/iifreport_reformfinancialservicesindustry 1209.pdf.

and time liabilities (NDTL) with effect from October 1, 2018 under Facility to Avail Liquidity for Liquidity Coverage Ratio (FALLCR). This along with the 2 per cent carve-out available for Marginal Standing Facility (MSF) takes the total carve-out available to 15 per cent of NDTL.

3.11 To enable Non-Banking Financial Companies and Housing Finance Companies develop alternative funding channels, the Reserve Bank has allowed

banks to provide partial credit enhancement (PCE) to bonds issued by the systemically important non-deposit taking non-banking financial companies (NBFC-ND-SIs) registered with the Reserve Bank and Housing Finance Companies (HFCs) registered with the National Housing Bank, subject to certain prudential conditions.

3.12 To encourage NBFCs to securitise/assign their eligible assets, it has been decided to relax the

minimum holding period (MHP) requirement for originating NBFCs, with respect to loans of original maturity above 5 years, to receipt of repayment of six monthly instalments or two quarterly instalments (as applicable), subject to the NBFCs meeting the minimum retention requirement (MRR).

II. Securities market

Global

International Organisation of Securities 3.13 Commissions (IOSCO) issued a final report⁷ on "Retail over-the-counter (OTC) Leveraged Products" which discusses policy measures designed to address the risks posed by retail investors trading in overthe-counter (OTC) leveraged products generally and binary options specifically. Retail investors typically use these products to speculate on short-term price movements in a given financial underlying. The report includes three complementary toolkits containing measures aimed at increasing the protection of retail investors who are offered OTC leveraged products, often on a cross-border basis. The report covers the marketing and sale of rollingspot forex contracts, contracts for differences (CFDs) and binary options. The toolkits offer guidance on dealing with the risks posed by dealers selling these products, advice for educating investors about the risks of OTC leveraged products, and insight on approaches to enforcement, particularly against unlicensed firms offering these kinds of products.

3.14 FSB in its consultative document⁸ examined the effects of the G20 financial regulatory reforms on the incentives to centrally clear over-the-counter (OTC) derivatives. Centrally clearing standardised OTC derivatives is a pillar of the G20 Leaders' commitment to reform OTC derivatives markets in response to the global financial crisis. The report infers that the reforms, particularly capital requirements, clearing mandates and margin requirements for

non-centrally cleared derivatives are achieving their goals of promoting central clearing, especially for the most systemic market participants. Beyond the systemic core of the derivatives network of CCPs, dealers/clearing service providers and larger, more active clients, the incentives are less strong. Further, an analysis of quantitative and qualitative survey data and market outreach suggests that the treatment of initial margin in the leverage ratio can be a disincentive for banks to offer or expand client clearing services. The report identifies reform areas that are worth considering by the relevant standard-setting bodies (SSBs).

Domestic

3.15 To deepen the corporate bond market, SEBI⁹ has mandated that all listed entities (other than scheduled commercial banks) with an outstanding rating of AA and above and with an outstanding long term borrowing of ₹1 billion or above shall raise not less than 25 per cent of their incremental borrowings by way of issuance of debt securities from FY 2019-20.

III. Insurance market

Domestic

3.16 The number of lives covered by the Individual Health Insurance Business went up from 21 million in FY 2011-12 to 33 million in FY 2017-18. However, the share of the lives covered under individual health insurance to the lives covered under the total Health Insurance Business (group business + government sponsored schemes + individual business) decreased from 10 per cent in FY 2011-12 to 7 per cent in FY 2017-18. On the other hand, the average premium per person has increased from ₹2,377 in FY 2010-11 to ₹4,595 in FY 2017-18 which could be attributed to:

 increase in average age of individuals covered under health insurance.

 $^{^{7} \ \} Available \ at: \ http://www.iosco.org/publications/?subsection=public_reports$

⁸ Available at: http://www.fsb.org/2018/08/incentives-to-centrally-clear-over-the-counter-otc-derivatives/

⁹ Available at: https://www.sebi.gov.in/legal/circulars/nov-2018/fund-raising-by-issuance-of-debt-securities-by-large-entities 41071.html

ii. increase in premium owing to the innovative products offered by insurers having multiple benefits embedded in the products with relatively higher premium, and

iii. increase in sum insured.

3.17 In terms of claims experience, there is an improvement in insurance claims loss ratio (ICR) at 71 per cent in FY 2017-18. The high ICR coupled with an increase in average premium per person gives an indication that there are ample business opportunities in the market for insurance companies.

3.18 The Insurance Regulatory and Development Authority of India (IRDAI) has started framing draft guidelines for identification of Systemically Important Insurers (SII) for the domestic insurance sector (Domestic Systemically Important Insurers or DSII).

3.19 As per the existing regulations, the required solvency capital to be held by Indian insurers is based on a simple factor-based approach expressed as a percentage of reserves and sum at risk. Insurers are expected to maintain a 150 per cent margin over the insured liabilities. The Risk Based Capital (RBC) approach links the level of required capital with the risks inherent in the underlying business. It represents an amount of capital that a company should hold based on an assessment of risks to protect stakeholders against adverse developments. However, shifting to RBC may require more technical expertise and its related costs. IRDAI has constituted a committee to examine in detail the RBC mechanism and its implementation in Indian insurance market.

3.20 IRDAI issued a comprehensive Information and Cyber Security guidelines for the insurance sector in April 2017 after completing a consultative process with all connected stakeholders. These guidelines are applicable to all insurers. IRDAI is also conducting independent reviews of insurers to assess the status of their compliance with cyber security

guidelines. So far, reviews of 55 insures have been completed. Except seven non-life insurers and one life insurer, the rest complied with cyber security guidelines. These insurers have been advised to complete the pending tasks by end-December 2018. IRDAI is taking all necessary steps to ensure that these insurers fully comply with the cyber security guidelines.

IV. Pension funds

Domestic

3.21 The National Pension Scheme (NPS) and Atal Pension Yojana (APY) have both continued to progress in terms of total number of subscribers as well as assets under management (AUM) (Tables 3.1 and 3.2). PFRDA continues its work towards financial inclusion of the unorganised sector and the low income groups by expanding the coverage under APY. As on end-October 2018, 405 banks are registered under APY with the aim to bring more and more citizens under the pension net.

Table 3.1:Subscriber growth

Sector	October 2017 (million)	October 2018 (million)	
Central Government	1.88	1.98	
State Government	3.61	4.06	
Corporate	0.65	0.75	
All Citizen Model	0.53	0.76	
NPS Lite	4.41	4.38	
APY	6.97	12.13	
Total	18.05	24.06	

Source: PFRDA.

Table 3.2: AUM growth

Sector	October 2017 (₹ billion)	October 2018 (₹ billion)	
Central Government	789.62	950.52	
State Government	1040.86	1335.36	
Corporate	187.99	252.94	
All Citizen Model	42.34	68.48	
NPS Lite	29.28	31.20	
APY	29.70	52.88	
Total	2119.79	2691.38	

Source: PFRDA

Table 3.3: The corporate insolvency resolution processes (CIRP) - No. of Corporate Debtors

Quarter	Undergoing	Admitted		Closure by		
	resolution at the beginning of the quarter		Appeal/ Review	Approval of resolution plan	Commencement of liquidation	resolution at the end of each quarter
Jan-Mar, 2017	0	37	1	-	-	36
Apr-Jun, 2017	36	129	8	-	-	157
Jul-Sep, 2017	157	231	15	2	8	363
Oct-Dec, 2017	363	147	33	8	24	445
Jan-Mar, 2018	445	194	14	13	57	555
Apr-Jun, 2018	555	244	18	11	47	723
Jul-Sep, 2018	723	216	29	18	76	816
Total	NA	1198	118	52	212	816

Note: NA-Not applicable.

Source: IBBI.

V. The insolvency and bankruptcy regime

The Insolvency and Bankruptcy Code (Code) 2016 provides for the reorganisation and insolvency resolution of corporate persons, among others, in a time bound manner for maximising the value of assets of such persons to promote entrepreneurship, credit availability and balancing the interests of all stakeholders. It separates the commercial aspects of insolvency resolution from its judicial aspects and empowers the stakeholders of the corporate debtor (CD) and the Adjudicating Authority (AA) to decide matters expeditiously within their respective domains. It provides an incentive-compliant, market driven and a time-bound process for insolvency resolution of a CD. The Code critically depends on financial creditors for its success. As at the end of September 2018, 816 corporate debtors were undergoing the resolution process (Table 3.3).

3.23 About 48 per cent of the admitted corporate insolvency resolution processes are triggered by operational creditors (OC) and about 38 per cent by financial creditors (FC), mostly banks (Table 3.4).

3.24 Of the 1,198 corporates in the resolution process up to September 2018, 112 were closed on appeal or review, 52 resulted in a resolution and 212 yielded liquidations; this is broadly consistent with expectations under the Code in its initial days of implementation. The distribution of 212 corporate debtors ending in liquidation is given in Table 3.5.

Table 3.4 Initiation of corporate insolvency resolution process (CIRP)

Quarter	No. of F	Total		
	Financial Operational Corpora Creditor Creditor Debto			
Jan-Mar, 2017	8	7	22	37
Apr-Jun, 2017	37	58	34	129
Jul-Sep, 2017	92	100	39	231
Oct-Dec, 2017	64	69	14	147
Jan-Mar, 2018	84	88	22	194
Apr-Jun, 2018	98	128	18	244
Jul-Sep, 2018	77 126 1		13	216
Total	460	576	162	1198

Source: IBBI

Table 3.5: Distribution of corporate debtors ending in liquidation

State of Corporate Debtor at the Commencement of CIRP		No. of CIRPs initiated by			
		ос	CD	Total	
Either in BIFR or Non-functional or both	49	61	53	163	
Resolution Value ≤ Liquidation Value	57	71	54	182	
Resolution Value > Liquidation Value	11	4	15	30	

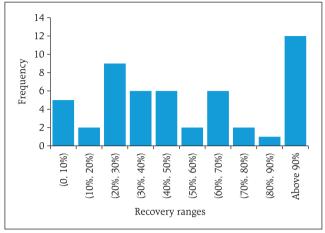
Source: IBBI

Till September 2018, NCLT 10 had resolved 50 3.25 cases involving admitted claims by FCs aggregating to ₹1249.77 billion. However, the median admitted claim was much lower at ₹0.85 billion and the third quartile of the admitted claim stood at ₹10.51 billion implying that so far significant efforts have been for resolving smaller claims. For claims beyond the third quartile threshold, the average recovery was at 46.66 per cent while the median recovery was 39.53 per cent implying higher recovery in some higher claim cases. For admitted claims by FCs below the third quartile, the average recovery was 36.37 per cent while the median recovery was higher at 53.88 per cent implying a somewhat lower recovery for the higher claims in this cohort. The frequency distribution of FCs recovery rates are given in Chart 3.3.

VI. Recent regulatory initiatives and their rationale

3.26 Some of the recent regulatory initiatives, along with the rationale thereof, are given in Table 3.6.

Chart 3.3: Recovery rates of financial claims at NCLT (upto September 2018)



Source: IBBL

Table 3.6: Important regulatory initiatives (June 2018 - November 2018)

Date	Measure	Rationale/purpose
1. The Reserve I	Bank of India	
June 15, 2018	Investment by Foreign Portfolio Investors (FPI) in Debt: FPIs were required to invest in Government bonds with a minimum residual maturity of three years. Henceforth, subject to certain conditions, FPIs are permitted to invest in specific categories of securities, without any minimum residual maturity requirement while investment in corporate bonds are being subjected to one-year residual maturity requirement.	To further facilitate FPIs' investment process in debt instruments in India.
July 25, 2018	RBI has revised norms on short sale in the secondary market for government securities. The revised norms allow any other regulated entity which has the approval of the respective regulators to be considered an eligible entity to undertake short sales. The maximum amount of a security (face value) that can be short sold is: Liquid securities 2per cent of the total outstanding stock of each security, or, ₹5 billion, whichever is higher, and other securities 1 per cent of the total outstanding stock of each security, or, ₹2.5 billion, whichever is higher.	To deepen the G-sec and Repo markets.

¹⁰ National Company Law Tribunal

Date	Measure	Rationale/purpose
August 16, 2018	It has been decided that with effect from August 20, 2018, LAF will also be extended to Scheduled State Co-operative Banks (StCBs) which are core banking solution (CBS) enabled and have CRAR of at least 9 per cent. Further, in order to provide an additional window for liquidity management over and above what is available under LAF, it has also been decided that (MSF) will be extended to Scheduled primary urban cooperative banks (UCBs) and Scheduled StCBs which are CBS enabled and have CRAR of at least 9 per cent.	To improve liquidity management in UCBs and StCBs.
September 19, 2018	RBI has relaxed external commercial borrowing (ECBs) norms. As per the revised norms, eligible ECB borrowers who are into manufacturing sector, will be able to raise ECB up to USD 50 million or its equivalent with minimum average maturity period of 1 year. It has also been decided to permit Indian banks to market Rupee denominated bonds (RDBs) overseas. Banks can participate as arrangers/underwriters/market makers/traders in RDBs issued overseas subject to applicable prudential norms.	To provide enhanced flexibility to corporates to choose their liability profile.
September 21, 2018	Co-origination of Loans by Banks and NBFCs for lending to Priority Sector: All scheduled commercial banks (excluding Regional Rural Banks and Small Finance Banks) may engage with Non-Banking Financial Companies - Non-Deposit taking - Systemically Important (NBFC-ND-Sis) to co-originate loans for the creation of priority sector assets. The bank can claim priority sector status without recourse to the NBFC. Minimum 20 per cent of the credit risk by way of direct exposure will be on NBFC's books till maturity and the balance will be on the bank's books.	To augment the flow of funds to Priority sector.
September 27, 2018	Basel III framework on Liquidity Standards: Banks have been allowed to use additional share of their Statutory Liquidity Reserves so as to meet Liquidity Coverage Ratio (LCR) requirement. Hence, the carve-out from SLR, under Facility to Avail Liquidity for Liquidity Coverage Ratio (FALLCR) will now be 13 per cent, taking the total carve out from SLR available to banks to 15 per cent of their NDTL.	To infuse more liquidity into the system.
September 27, 2018	UCBs with a good track record, minimum net worth of ₹500 million and maintaining Capital to Risk (Weighted) Assets Ratio of 9 per cent and above are eligible to apply for voluntary transition to small finance banks (SFB) under this scheme. Minimum net worth of the proposed SFB shall be ₹1 billion and minimum promoters' contribution shall be 26 per cent of the paid-up equity capital. Under its ontap scheme for voluntary transition, the promoters should submit applications along with requisite documents and information relating to the general body resolution by a two-thirds majority and authorising the board of directors to take steps for the transition. The general body resolution also has to identify and approve the promoters. The promoters shall furnish their business plans and project reports along with their applications. RBI would assess the 'fit and proper' status of the applicants to determine suitability.	To facilitate growth in the banking space.

Date	Measure	Rationale/purpose
November 2, 2018	Reserve Bank allowed banks to provide partial credit enhancement (PCE) to bonds issued by the systemically important non-deposit taking non-banking financial companies (NBFC-ND-SIs) registered with the Reserve Bank of India and Housing Finance Companies (HFCs) registered with National Housing Bank, subject to certain conditions.	To improve liquidity flow to NBFCs and HFCs. banks extending PCE to the bonds will enhance bonds' credit rating, enabling the companies to access funds from the bond market on improved terms.
November 26, 2018	External Commercial Borrowing (ECBs) mandatory hedging provision was reduced to 70 per cent from 100 per cent by Reserve Bank for eligible borrowers raising ECBs under Track I, having an average maturity between 3 and 5 years. ECBs falling within the scope but raised earlier will be required to mandatorily roll over their existing hedge(s) only to the extent of 70 per cent of outstanding ECBs exposure.	To provide greater flixibility for managing exchange rate risks.
November 29, 2018	The Reserve Bank relaxed norms for non-banking financial companies (NBFCs) to securitise their loan books. NBFCs can now securitise loans of more than five-year maturity after holding those for six months on their books. Minimum Retention Requirement (MRR) for such securitisation transactions shall be 20 per cent of the book value of the loans being securitised.	To allow additional access to funding for the NBFC sector.
2.The Securities	and Exchange Board of India (SEBI)	
June 11, 2018	Disclosure by Exchanges related to Deliverable Supply and Position Limits Calculation for Agricultural Commodity Derivatives.	In order to provide necessary information to the stakeholders the Exchanges are directed to prominently disseminate on their websites the details of five year average deliverable supply, current year deliverable supply, source of data, categorisation of the commodity, position limits <i>etc.</i> for each of the commodity traded on their exchange, as per the given format.
July 5, 2018	Review of Adjustment of corporate actions for Stock Options.	Based on the recommendations of Secondary Market Advisory Committee (SMAC), the mechanism of dividend adjustment for stock options was revised.
July 12, 2018	Discontinuation of acceptance of cash by Stock Brokers.	In view of the various non-cash modes of electronic payments, Stock Brokers are directed not to accept cash from their clients either directly or by way of cash deposit to the bank account of stock broker.
August 03, 2018	Role of Sub-Broker (SB) <i>vis-à-vis</i> Authorised Person (AP).	There is no difference in the operative role of a Sub-Broker and that of an Authorised Person.SEBI Board in its meeting held on June 21, 2018 decided to discontinue with Sub-Broker as an intermediary to be registered with SEBI.
August 10, 2018	Enhanced monitoring of Qualified Registrars to an Issue and Share Transfer Agents: Qualified RTAs (QRTAs) are directed to comply with enhanced monitoring requirements, through adoption and implementation of internal policy framework; and periodic reporting on key risk areas, data security measures, business continuity etc.	To further strengthen the risk management system for Market Infrastructure Institutions (MIIs).
August 16, 2018	In streamlining the process of public issue of Debt Securities, non-convertible redeemable preference shares(NCRPS), Debt Securities by Municipalities and securitised debt instruments (SDI), SEBI has cut the timeline for listing of such securities to six days, from 12 days at present.	To make issuance of debt securities NCRPS and SDI simpler and cost-effective.

Date	Measure	Rationale/purpose
August 16, 2018	E book mechanism (EBP) for issuance of securities on private placement basis: Additional facilities <i>viz.</i> closed bidding, multiple yield allotment, pay-in through escrow account bank account of issuer are provided by regulator.	To further rationalise and ease the process of issuance of securities on EBP platform.
August 24, 2018	Extension of Trading hours of Securities Lending and Borrowing (SLB) Segment.	With a view to facilitate physical settlement of equity derivatives contracts.
September 1, 2018	Additional Surveillance Measures (ASM).	Along with the existing pre-emptive Surveillance measures there are now Additional Surveillance Measures (ASM) on securities with surveillance concerns <i>viz.</i> price variation, volatility <i>etc.</i> to alert and advise investors to be extra cautious and advise market participants to act diligently while dealing in these securities.
September 11, 2018	Amendment to Securities and Exchange Board of India (Credit Rating Agencies) Regulations, 1999.	As per the amendment CRAs are not allowed to carry out any activity other than the rating of securities offered by way of public or rights issue. However, CRAs may undertake rating of financial instruments under the respective guidelines of a financial sector regulator or any authority as may be specified by the Board.
September 19, 2018	Amendment to SEBI (Credit Rating Agencies) Regulations, 1999 and modification to SEBI Circular dated May 30, 2018: It has been decided that cases of requests by an issuer for review of the rating(s) provided to its instrument(s) shall be reviewed by a rating committee of the CRA that shall consist of majority of members that are different from those in the Rating Committee of the CRA that assigned the earlier rating. Also, at least one-third of members of the Committee should be independent.	To enhance disclosure and transparency norms for credit rating agencies.
September 19, 2018	Interoperability among Clearing Corporations - Amendments to Securities Contracts (Regulation) (Stock Exchanges and Clearing Corporations) Regulations, 2012.	The proposal of 'Interoperability' seeks to address the current suboptimal utilisation of margin and capital resources in the securities market, by linking the Clearing Corporations (CCPs) and allowing market participants to consolidate their clearing and settlement function at a single CCP, irrespective of the stock exchange on which the trade is executed.
September 19, 2018	Know Your Client requirements for Foreign Portfolio Investors (FPIs).	FPIs are required to comply with the given Know Your Client (KYC) requirements <i>viz.</i> Identification and verification of Beneficial Owners – For Category II & III FPIs, Periodic KYC review, Exempted documents to be provided during investigations/ enquiry. Data security <i>etc.</i>
October 09, 2018	Participation of Eligible Foreign Entities (EFEs) in the commodity derivatives market.	To enable Foreign Entities having actual exposure to Indian commodity markets, to hedge their price risk in the Indian Commodity derivatives market.
October 22, 2018	Total Expense Ratio (TER) and Performance Disclosure for Mutual funds: It has been decided that asset management companies have to adopt full trail model of commission in all schemes without payment of any upfront commission. A framework for increased transparency in TER (total expense ratio) and a framework for performance disclosure of the schemes have also been implemented for MF schemes. Additionally, incentives for B-30 cities is modified and is to be based on inflows from retail investors. The slabs for base TER are also revised to achieve reduced cost for end investors.	To bring transparency in expenses, reduce portfolio churning and mis-selling in mutual fund (MF) schemes

Date	Measure	Rationale/purpose
3. The Pension	Fund Regulatory and Development Authority (PFRDA)	
August 20, 2018	Change in Investment Guidelines for NPS Schemes w.r.t investment in Equity Mutual Fund by Pension Funds: it has been decided to put a limit of 5 per cent on investment in Equity Mutual Funds in a manner that the aggregate portfolio invested in such mutual funds shall not be in excess of 5 per cent of the total portfolio of the fund at any point in time and the fresh investment in such mutual funds shall not be in excess of 5 per cent of the fresh accretions invested in the year.	In order to limit investments by Pension Funds into Equity Mutual Funds and promote active fund management practice.
4. The Insolver	ncy and Bankruptcy Board of India (IBBI)	
July 4, 2018	Amendments to the IBBI (Insolvency Resolution Process for Corporate Persons) Regulations 2016. ¹¹	The revised norms provide clarity on procedural requirements for various classes of creditors, details about timelines to be followed by resolution professionals and procedure for withdrawal of insolvency application.
August 10, 2018	Direction by circular to resolution professional to mention in the notice about representation in Committee of Creditors (CoC).	This relates to representation of Financial Creditors as members of the CoC,
August 17, 2018	 The Insolvency and Bankruptcy Code (Second Amendment) Act, 2018. Some important provisions include: providing relief to home buyers by recognising their status as financial creditors, laying down a strict procedure for withdrawing a case after its admission under IBC 2016. It would be permissible only with the approval of the Committee of Creditors with 90 per cent of the voting share, permissible before publication of notice inviting Expressions of Interest (EoI). voting threshold brought down to 66 per cent from 75 per cent for all major decisions such as approval of resolution plan, extension of CIRP period, etc. and 51% for routine decisions to ensure that the CD continues as going concern. providing for a minimum one-year grace period for the successful resolution applicant to fulfill various statutory obligations required under different laws. 	To balance the interests of various stakeholders, especially the home buyers and Micro, Small and Medium Enterprises (MSMEs), promoting resolution over liquidation of corporate debtor by lowering the voting threshold of CoC and streamlining provisions relating to eligibility of resolution applicants.
October 5, 2018	Amendments to the IBBI (Insolvency Resolution Process for Corporate Persons) Regulations 2016.	The amendment now requires the resolution professional to circulate the minutes of the meeting by electronic means to authorised representative(s) also. The Regulations will enable a financial creditor in a class, who could not vote on a matter before the meeting, to vote after minutes of the meeting are circulated.
October 11, 2018	Amendment to (a) the Insolvency and Bankruptcy Board of India (Insolvency Professional Agencies) Regulations, 2016, (b) the Insolvency and Bankruptcy Board of India (Model Bye-Laws and Governing Board of Insolvency Professional Agencies) Regulations, 2016, and (c) the Insolvency and Bankruptcy Board of India (Information Utilities) Regulations, 2017.	The amendment relates to a few procedural issues with regards to insolvency proceedings.

 $^{^{11} \}quad \text{The details of the issues addressed in the amendment are available at $https://ibbi.gov.in/webadmin/pdf/whatsnew/2018/Oct/CIRPpercent20Amendment-5.10.2018_2018-10-05percent2023:21:24.pdf.}$

Date	Measure	Rationale/purpose
October 22, 2018	Amendment to the IBBI (Liquidation Process) Regulations 2016.	The amendments, <i>inter-alia</i> , enable a liquidator to sell the business of the corporate debtor as a going concern. The amendments also provide that the valuation of the assets or business sold may be considered as that under the IBBI (Insolvency Resolution Process for Corporate Persons) Regulations, 2016 or the IBBI (Fast Track Insolvency Resolution Process for Corporate Persons) Regulations, 2017, as the case may be.
October 22, 2018	Insolvency and Bankruptcy Board of India (Mechanism for Issuing Regulations) Regulations, 2018.	The regulations provide for the manner in which regulations may be framed by IBBI providing, inter-alia, for effective engagement with the stakeholders, for making regulations.

Section B Other developments, market practices and supervisory concerns

I. The Financial Stability and Development Council

3.27 Since the publication of the last FSR in June 2018, the Financial Stability and Development Council (FSDC) held one meeting on October 30, 2018 under the chairmanship of the Finance Minister where issues related to the state of the economy, strengthening cyber security in the financial sector including progress made in the setting up of a Computer Emergency Response Team in the Financial Sector (CERT-Fin), issues and challenges of crypto assets/currency, market developments and financial stability implications of the use of RegTech and SupTech by financial firms and regulatory and supervisory authorities,

and implementing the recommendations of the Sumit Bose Committee Report on measures, such as, promoting an appropriate disclosure regime for financial distribution costs were discussed. The Council also discussed at length the issue of real interest rates and the current liquidity situation including segmental liquidity position.

II. Fund flows: FPIs and Mutual Funds

3.28 The Mutual Fund (MF) industry is experiencing some volatility due to certain market developments. During April-September 2018, there was a net inflow of ₹458 billion as compared to a net inflow of ₹2,020 billion in April-September 2017. (Table 3.7).

Table 3.7: Trends in flow of funds (₹ billion)

Month/Year	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17
Gross Mobilisation	16372.2	16594.55	15523.72	18005.82	16252.21	18356.59
Redemption	14865.17	17001.66	15689.64	17370.78	15635.2	18522.64
Assets at the end of the period	19263.02	19039.75	18962.91	19969.05	20592.89	20403.01
Net Inflow/ Outflow	1507.03	-407.11	-165.93	635.05	617.01	-166.05
Month/Year	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
Gross Mobilisation	17183.28	19384.27	20684.5	22014.06	19797.79	16929.8
Redemption	15809.00	19884.28	20219.75	22340.34	18051.3	19231.39
Assets at the end of the period	23255.05	22595.78	22864.01	23055.38	25204.3	22044.23
Net Inflow/ Outflow	1374.28	-500.01	464.75	-326.28	1746.49	-2301.59

Source: SEBI.

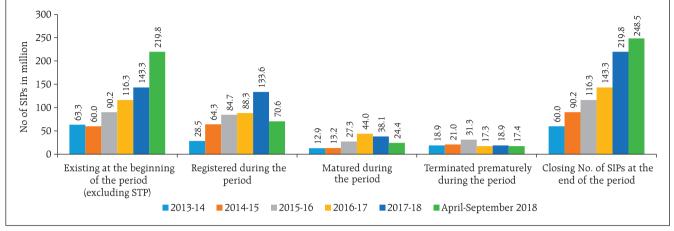


Chart 3.4: Growth in the number of SIPs (No. in million)

Source: SEBI.

3.29 Notwithstanding the ebbs and flows in aggregate mobilisation of MFs, the Systematic Investment Plans (SIPs) remain a favoured choice for the investors (Chart 3.4). The net folio increase during April-September 2018 over 2017-18 was 2.88 million. Investments through SIPs in mutual funds

appear to be relatively more stable from the point of view of sustainability of fund inflows.

3.30 Given the significant churn in MF flows, management of liquidity by MFs assume importance (Box 3.2).

Box. 3.2 Framework for Liquidity Risk Management by MFs

Mutual funds are redeemable on daily basis, which, under normal circumstances see orderly redemptions. However, under stressed market conditions, a fund must be ready to meet the redemption obligations to its unit-holders. In this context, liquidity management is very important for mutual funds and there must be adequate policies and procedures to meet investor redemption requests. SEBI has put in place various policy tools to mitigate / resolve liquidity issues in MF schemes:

- 1. Exit load: A fee calculated as a percentage of net asset value (NAV) is charged from an investor when units are redeemed within the period specified in the scheme's offer document. This measure reduces the likelihood of withdrawals by investors from the mutual fund schemes within the specified period.
- 2. For better asset-liability match: Close ended debt schemes can invest only in such securities which mature on or before the date of the maturity of the scheme. Further, Liquid funds can invest only in instruments of up to 91-day maturity and Money Market Mutual

- Fund (MMMF) schemes can invest only in money market instruments with maturity less than one year.
- 3. Listing of close ended / interval schemes:
 To provide investors with an exit option and to give fund managers certainty in managing funds till the closing date, the regulatory framework was amended by mandating the listing of close ended and interval schemes.
- 4. Portfolio diversification norms: Investment limits are being placed on securities issued by a single issuer, sector exposure limit, group level limit and also limits on investments in listed securities issued by associate / group companies.
- 5. 20-25 rule: To reduce investors' concentration, SEBI guidelines mandate that each scheme needs to have a minimum of 20 investors and no single investor shall account for more than 25 per cent of the corpus of the scheme. This reduces the likelihood of huge redemptions of a scheme's units by a single/ few investors

(Contd...)

holding a substantial proportion of the scheme's asset.

- 6. Adopting the principles of Fair Valuation:

 To ensure fair treatment to all investors, the overarching and overriding principles of fair valuation have been adopted as per which the valuation of investments shall be reflective of the realisable value of the securities/assets. Adopting such principal of fair valuation takes away the incentive from investors to redeem prior to other investors, thereby reducing the redemption pressure and 'run' on the scheme.
- 7. Mutual funds have also been provided with a period of 10 days, from date of redemption request, to provide redemption proceeds to investors.
- 8. Stress testing by AMCs: To evaluate potential vulnerabilities and take corrective actions thereof, stress testing has been made mandatory for all Liquid Fund and MMMF Schemes. The stress test is required to be carried out by the AMC at least on a monthly basis and should test the impact of interest rate risk, credit risk and liquidity and redemption risk, among others deemed necessary, on the NAV of the concerned schemes.
- 9. Limits on investment in illiquid assets: To limit investments in illiquid assets, aggregate value of any scheme's investments in 'illiquid securities', which are defined as non-traded, thinly traded and unlisted equity shares, should not exceed 15 per cent of the total assets of the scheme and any illiquid securities held above 15 per cent of the total assets will be assigned zero value.
- 10. Borrowing by MFs: To meet temporary liquidity requirements of the Mutual Funds for the purpose of repurchase, redemption of units or payment of interest or dividend to the unit-holders, MFs have been permitted to borrow to the extent of 20 per cent of the net asset of the scheme and the duration of such a borrowing shall not exceed a period of 6 months.
- **11. Restrictions on redemptions**: In order to protect the interest of the investors, SEBI vide its circular dated May 31, 2016 has provided

- guidelines on restrictions on redemptions. The following should be observed before imposing restrictions on redemptions:
- a. Restrictions may be imposed when there are circumstances leading to a systemic crisis or event that severely constricts market liquidity or the efficient functioning of markets such as:
 - i. Liquidity issues when the market at large becomes illiquid affecting almost all securities rather than any issuer specific security. Further, restriction on redemption due to illiquidity of a specific security in the portfolio of a scheme due to a poor investment decision, is not allowed.
 - ii. Market failures, exchange closures when markets are affected by unexpected events which impact the functioning of exchanges or the regular course of transactions.
 - iii. Operational issues when exceptional circumstances are caused by force majeure, unpredictable operational problems and technical failures (for example a black out).
- b. Restrictions on redemptions can be imposed for a specified period of time not exceeding 10 working days in any 90 days period.
- c. Any imposition of restrictions requires specific approval of board of AMCs and Trustees and SEBI should be informed immediately about this.
- d. When restrictions on redemptions are imposed, the following procedure shall be applied:
 - i. All redemption requests up to ₹0.20 million will not be subject to such restriction.
 - ii. Where redemption requests are above ₹0.20 million, AMCs shall redeem the first ₹0.20 million without such restriction and remaining part over and above ₹0.20 million shall be subject to such restriction.

This information should be disclosed prominently and extensively in the scheme related documents.

III. Trends in capital raised – debt and equity – emerging issues

a. Credit ratings and framework for their role and accountability

A. Trend in rating movements

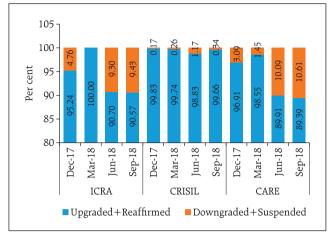
3.31 An analysis of the credit ratings of debt issues of listed companies by major Credit Rating Agencies (CRAs) in India shows that there was a surge in the share of downgraded/ suspended companies of two rating agencies during the June and September 2018 quarters (Chart 3.5).

B. Further strengthening of the CRA framework

3.32 In order to further strengthen the rating framework, SEBI, in May 2018, issued guidelines with respect to the process for review of ratings. Pursuant to the circular, based on the representations received from the market participants, further modifications were made to the framework. It was decided that requests by an issuer for review of the rating(s) provided to its instrument(s) will be reviewed by a rating committee of the CRA that will consist of majority of whose members are different from those in the Rating Committee that assigned the earlier rating, and at least one-third of the members will be independent. Further, to make the disclosures more relevant. CRAs were directed to disclose all the ratings which were not accepted by an issuer, on their website, for a period of 12 months from the date of such ratings being disclosed as a nonaccepted rating.

3.33 In June 2018 SEBI directed that CRAs may withdraw a rating subject to CRA having (i) rated the instrument continuously for 5 years or 50 per cent of the tenure of the instrument, whichever is higher and (ii) received an undertaking from the issuer that a rating is available on that instrument. Further, at the time of withdrawal, the CRA shall assign a rating to such instrument and issue

Chart 3.5: Per cent of debt issues of listed companies in terms of rating action



Source: SEBI

a press release regarding the rating. Vide SEBI (Credit Rating Agencies) (Amendment) Regulations, 2018, notified on May 30, 2018, SEBI put in place various criteria on enhanced net worth of the CRA, minimum shareholding of the promoter with lock-in requirement, restrictions on cross-holdings among CRAs and restrictions on carrying out any activity other than the rating of securities offered by way of public or rights issue with certain carve-outs.

3.34 SEBI also overhauled the disclosures by CRAs recently. The enhanced disclosures pertain to parent / group/government support, liquidity position (including forward looking measures for non-banks like unutilised credit lines and adequacy of cash flows for servicing maturing debt obligation, *etc.*). The enhanced disclosure regime significantly enhances the information content of the rating.

C. Primary market issuance trends in FY 2018-19

3.35 During April-September 2018, ₹274.45 billion was raised through 12 public issues in bond market. More than ₹2 trillion was also raised through private placement of corporate bonds during the same period (Chart 3.6). The major issuers of corporate bonds were body corporates and NBFCs accounting for more than 50 per cent of the outstanding corporate

bonds as on September 2018 (Chart 3.7a) whereas body corporates and mutual funds were the major subscribers of the same (Chart 3.7b). With regard to equity capital ₹149.70 billion has been raised during April-October 2018 (Chart 3.6).

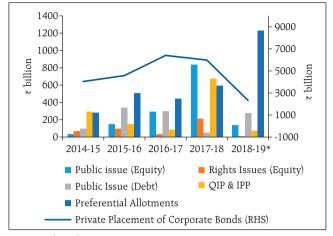
IV. Commodity Derivatives

(a) Risk Management and Surveillance of **Commodity Derivative Markets**

SEBI took over the regulation of commodity derivatives market from September 28, 2015. To streamline and ensure the smooth functioning of commodities futures markets, SEBI has put in place a comprehensive risk management and surveillance framework for National Commodity Derivative Exchanges in October 2015 and prescribed additional risk management norms for commodity National Exchanges in September 2016.

In 2014, SEBI had issued norms related to the Core Settlement Guarantee Fund, default waterfall, stress testing, back testing etc. for recognised Clearing Corporations. These norms have been made applicable to Clearing Corporations clearing commodity derivatives transactions as well. Inter-alia, Minimum Required Corpus of Core Settlement Guarantee Fund (MRC) for the

Chart 3.6: Capital raised in the Primary market



Note: *April-October 2018. Source: SEBI

commodity derivatives segment of any stock exchange has been stipulated at ₹100 million and modified standardised stress testing scenarios and methodology has been prescribed for carrying out daily stress testing for credit risk for commodity derivatives. Risk management framework and product design guidelines were issued for trading in options on commodity futures. At present, Multi Commodity Exchange of India Ltd. (MCX) is offering Options trading in Gold Futures, Crude oil futures, Copper futures, Silver Futures and Zinc futures. The

National Commodity & Derivatives Exchange Ltd.

a. Category of Issuers 0.16% 6.98% 31.02% 13 73% 20.30% 14.57%

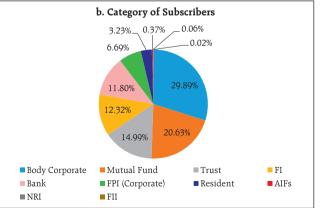
■ Financial Institution

■ PSU

■NBFCs

■HFCs

Chart 3.7: Category wise Issuers and Subscribers of corporate bonds



Note: As on September 18, 2018.

■Small Finance Bank

■ Body Corporate

Bank

Source: SEBI.

(NCDEX) is offering Options trading in Guar Seed futures, Guar Gum futures, Chana futures, Soybean futures and Refined Soy Oil futures.

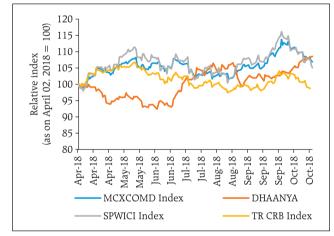
In addition, SEBI has been taking various measures to further strengthen the surveillance and integrity of commodity derivatives markets. Some of the important measures taken by SEBI during 2018-19 (up to October 24, 2018) includes: monthly surveillance meetings with commodity exchanges, surprise warehouse visits, visits to physical markets of commodities traded at the exchange, meeting various traders and value chain participants to take their feedback and collect surveillance inputs for further policy measures, inspections of commodity derivatives exchanges, imposition of special margins, Self-Trades Prevention check at permanent account number level by exchanges to restrict wash/ self-trades at exchanges platform, increased penalty (up to 100 per cent of the profit/loss booked) in case of reversal of trades, etc.

(b) Market developments

3.39 As on October 31, 2018, the benchmark indices, MCX COMDEX increased by 6.8 per cent and NCDEX Dhaanya increased by 10.3 per cent over March 31, 2018. During the same period, while the S&P World Commodity Index increased by 5.1 per cent, Thomson Reuters CRB Index decreased by 2.3 per cent (Chart 3.8).

3.40 The total turnover at all the commodity derivative exchanges (futures and options combined) saw a growth of 14.0 per cent during April 2018 - September 2018 as compared to previous six months *i.e.* October 2017 - March 2018 period. During the

Chart 3.8: Movement of Indian and International Commodity Indices¹²



Source: Bloomberg.

period, metal had a share of 38.7 per cent followed by Bullion (including diamond) which had a share of 31.6 per cent. Energy and Agriculture experienced a growth of 20.3 per cent and 9.4 per cent respectively. The total share in turnover of the non-agricultural

¹² The MCX India Commodity Index is a composite Index based on the traded futures prices at MCX comprising a basket of contracts of bullion, base metal, energy and agri commodities.

The NCDEX Dhaanya is a value weighted index, based on the prices of the 10 most liquid commodity futures traded on the NCDEX platform.

The S&P World Commodity Index is an investable commodity index of futures contracts traded on exchanges outside the U.S comprising Energy, Agricultural products, Industrial and precious metals.

Thomson Reuters/Core Commodity CRB Index is based on Exchange Traded Futures representing 19 commodities, grouped by liquidity into 4 groups viz. Energy, Agriculture, Livestock and Metals.

derivatives was 90.6 per cent during the period while agri-derivatives contributed a share of 9.4 per cent (Chart 3.9).

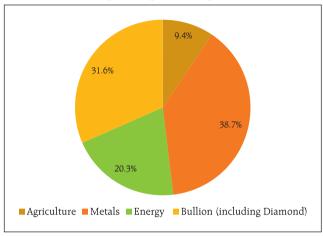
(c) Unified Stock Exchanges

The Union budget for FY 2017-18, proposed that the commodities and securities derivatives markets will be further integrated by integrating participants. brokers. and operational frameworks. This budget announcement was implemented by SEBI in two phases. In Phase-I, integration at the intermediary level and in Phase II a single exchange to operate various segments such as equity, equity derivatives, commodity derivatives, currency derivatives, interest rate futures and debt were enabled. This integration of exchanges with universal trading facilities across securities and commodity derivatives aims at bringing synergy in the functioning of securities and commodities market.

3.42 This is beneficial from the point of view of investors, market participants and the regulator as there are many commonalities between the two markets in terms of trading and settlement mechanism, risk management and redressal of investor grievances. Brokers will also benefit as transaction costs are expected to come down due to competition between exchanges. Further, having a single firm/company for both the markets will result in a single margin account.

3.43 Investors have to pay less and can trade in both equity and commodities through one trading account. In the current scenario traders who are active in both equity and commodity markets have to transfer money to two broker firms/companies, one for equity trading and other for commodities trading. This is a constraint as money transfers between the two markets may be time consuming, requires more working capital and are costly (transfer charges). This

Chart 3.9: Product segment-wise share in All India Derivatives Turnover (Futures & Options) (April 2018 - September 2018)



Source: SEBI.

may also result in a loss of opportunity especially in a volatile market. The new move will help in expanding the commodity derivatives market while availing the benefits of already developed equity markets.

V. Fintech

The recent EBA (European Banking Authority) Report¹³ on FinTech strives to provide a balanced analysis of potential prudential risks and opportunities that may arise due to FinTech. It analyses this on the basis of seven major FinTech use cases: biometric authentication using fingerprint recognition, robo-advisory as a way of investment advice, big data and machine learning in credit scoring, use of a distributed ledger technology and smart contracts for trade finance, distributed ledger technology as a means to streamline customer due diligence processes, mobile wallet with the use of near-field communication and outsourcing the core banking/payment system to the public cloud. The EBA report acknowledges the increased operational risk on the part of incumbent institutions because of lack of adequate expertise and cyber-security issues among others. However, it also emphasises a number of opportunities in terms of efficiency gains, cost reduction and improved customer experience.

¹³ Available at: https://www.eba.europa.eu/-/eba-assesses-risks-and-opportunities-from-fintech-and-its-impact-on-incumbents-business-models

3.45 BIS in its report¹⁴ analysed the early user experience of Suptech (supervisory technology) (Box 3.3).

Box 3.3: Riding on Suptech

Suptech is the use of innovative technology by supervisory agencies to support supervision. Presently data collection method used by supervisors includes periodic data templates which might have missing data points or overlapping data. The reporting template offers less flexibility to supervisors for differentiated analysis. Suptech helps to digitise reporting and regulatory processes, resulting in efficient and proactive monitoring of risk and compliance by financial institutions. It could facilitate risk and compliance monitoring to evolve into a predictive process from a backward-looking process.

A number of supervisory agencies are already using innovative ways to effectively implement a risk-based approach to supervision. The most common initiative taking root in various countries is regulatory 'sandbox' which is a controlled environment created by financial authority for regulated or unregulated institutions to test innovations for certain period and according to certain rules.

Some of the potential and actual applications of Suptech adapted from FSI Insights report is summarised below:

Suptech applications for real-time monitoring: Real-time monitoring of the Australian primary and secondary capital markets is done by the Australian Securities and Investments Commission (ASIC). The system provides real-time data feeds from all equity and equity derivative transactions and generates real-time alerts, enabling identification of anomalies within markets.

Data analytics: Many supervisory agencies use Suptech for data validation, data-cleaning and data checks. For example, the Bank of Italy (BoI) uses structured and unstructured data for detecting antimoney laundering (AML). The Netherlands Bank (DNB) transforms data output into logical indicators, for example traffic lights and dashboards. Mexico's National Banking and Securities Commission uses cloud computing to process large volumes of data. Several supervisory agencies use chatbots to provide virtual

assistance to supervised entities and for answering consumer complaints.

Market surveillance and supervision: The Financial Conduct Authority of UK (FCA) uses supervised machine learning (ML) tools to analyse millions of equity market transactions and detect signals of market manipulation. Suptech applications in misconduct analysis emphasises on AML, financing of terrorism, fraud detection and mis-selling. Suptech application in macroprudential supervision can be found for credit risk evaluation, liquidity risk detection, identification of macro-financial risks, and policy evaluations. Supervisory agencies have started using ML algorithms which merge different data sources to produce forecasts of loan defaults. The DNB is working on a neural network framework to detect anomalies, that is unusual liquidity flows, in payment data derived from a real-time gross settlement system.

Identification of macro-financial risks: DNB uses transactions processed in TARGET2¹⁵ and other financial market infrastructures (FMIs) for forecasting risk indicators.

Challenges in developing Suptech applications: Increased operational risk, computational and human resource constraints and lack of transparency in some of the data analytics applications are some of the critical issues that have been observed. Hence, human intervention through supervisory expertise is still crucial in the supervisory process, mainly in investigating the results of the analyses and deciding on a course of action.

References:

Bank for International Settlements (2018): "Innovative technology in financial supervision (suptech) - the experience of early users", available at: https://www.bis.org/fsi/publ/insights9.htm.

Reserve Bank of India (2017): "Report of the Working Group on FinTech and Digital Banking", available at https://rbidocs.rbi.org.in/rdocs/PublicationReport/Pdfs/WGFR68AA1890D7334D8F8F72CC2399A27F4A.PDF

¹⁴ Available at: https://www.bis.org/fsi/publ/insights9.htm

¹⁵ Target 2 is the settlement system for euro payment flows between banks in euro area.

VI. Cyber security and data protection

(A) Cyber security preparedness in banks – The Indian scenario

3.46 Over the years, resilience to cyber threats has emerged as a major area of concern in the Indian financial sector, more specifically in the context of banking operations involving critical payment system infrastructure. Over the past few years, several foundational milestones have been accomplished in the area of cyber security in banks ensuring that, the odd attack notwithstanding, the Indian banking system is adequately prepared to deal with a significant majority of cyber threats. Some of the measures taken and the safeguards implemented are:

- i. Bank boards (or board-level committees as the case may be) have been encouraged to assign due importance and demonstrate their commitment to cyber security by suitably equipping themselves with sufficient expertise to provide strategic directions; deliberating on cyber security in discussions related to design and implementation of new systems/major changes in existing systems; strengthening the CISO's office both in terms of a cyber security budget, resources and by periodically reviewing the status of the bank's cyber security posture.
- ii. The baseline expectations from banks in the area of cyber security were outlined in a comprehensive cyber security framework circulated by the Reserve Bank in June 2016. The banks are required to, *inter alia*, strictly enforce cyber hygiene in their environments (including in third-parties wherever applicable) with respect to password controls; port opening/ closing; network access controls; inventorying of IT assets and ensuring that these are updated with latest patches; instituting appropriate metrics and measures to assess the effectiveness

of cyber security-related controls including the functioning of Security Operations Centres: ensuring application and database integrity and confidentiality of sensitive data; and periodically verifying the robustness of the banks' IT infrastructure by conducting Vulnerability Assessment/Penetration Testing, code reviews, etc. The progress made by banks in the implementation of the measures outlined in the Cyber Security Framework and other regulatory instructions/ advisories is periodically assessed by the CSITE Cell through on-site examinations both comprehensive and thematic/focused - and through offsite submissions by banks, communicating compliance with specific control measures.

- iii. Basedoninputs received from market intelligence and government agencies, advisories and alerts are issued to banks, to avoid exploitation of the same vulnerabilities. This ensures that detection and response efforts of one entity feed into the prevention and detection efforts of the others thereby raising the security level of the entire banking system. Further, periodic returns are collected and reviewed to assess the cyber hygiene of the banks on an ongoing basis.
- iv. The Reserve Bank and other agencies (like CERT-In and IDRBT) conduct periodic cyber drills for banks to evaluate their detection, response and recovery policies and procedures; and to ensure that they are adequate to contain and remediate breaches and get back to normal operations at the earliest.

3.47 The banking industry as a target of choice for cyber-attacks in India is and will be vulnerable to novel and evolving threats. Recent cyber-attacks have, through their sophistication, necessitated banks to undertake extensive surveillance of their systems and networks on a continuous basis for effective timely threat intelligence. The sheer diversity and

increasing complexity of cyber threats has brought about a realisation that a determined, focused and coordinated effort from multiple stakeholders will lead the way to a cyber-threat-resilient banking system.

- 3.48 The regulators are consistently engaged in supervising their relevant intermediaries on the progress of implementation and robustness of cyber security frameworks. Cyber Security/System audits of the intermediaries are being conducted regularly by competent auditors and the same is being reported to the concerned regulators. Some salient features of the general guidelines issued by various regulators include:
- Identification of Critical Information Infrastructure (CIIs) and getting them notified in coordination with National Critical Information Infrastructure Protection Centre (NCIIPC).
- ii. Adoption of Board approved cyber security policy.
- iii. Identification by intermediaries of critical IT assets and documentation of risks associated with such assets.
- iv. Reporting of all the cyber incidents to the Indian Computer Emergency Response Team (CERT-In)
- v. Periodic reassessment of Information & Cyber Security status.

- vi. Conducting the Vulnerability Assessment and Penetration Test (VA/PT) for all public-accessible applications.
- vii. Appointment of Chief Information Security Officer (CISO) who will be responsible for designing and enforcing information security (IS) policy.
- 3.49 SEBI issued detailed guidelines to Market Infrastructure Institutions (MIIs) to set-up their respective Cyber Security Operation Centre (C-SOC) and oversee their operations round the clock by dedicated security analysts. The Cyber Resilience framework has also been extended to Stock Brokers/Depository Participants. Smaller intermediaries can utilise the services of the Market SOC which is proposed to be set up by MIIs for dedicated cyber security solutions. IRDAI has mandated insurers to establish the SOC at the insurer level for monitoring of network security.

(B) Banking frauds

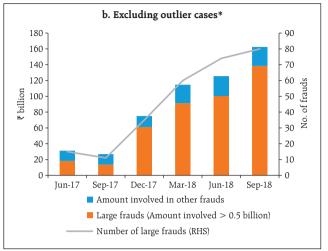
3.50 Operational risks in the banking sector have assumed significance of late, calling for reforms in governance and Board oversight structures and overhaul of the extant risk culture in banks (see box 3.4). Table 3.8 provides the number and the amount involved in frauds of ₹0.1 million and above reported

Table 3.8: Frauds reported	l during the	last 5 FYs and	H1:2018-19	(amount involv	red > = ₹0.1 million
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FY	Frauds of ₹ 0.1 mi	llion and above (A)	Out of A, Credit	related frauds (B)	Per cent of B in A	
	No of Frauds	Amount Involved (₹ million)	No of Frauds	Amount Involved (₹ million)	No of Frauds	Amount Involved
2013-14	4306	101708	1990	84121	46.21	82.71
2014-15	4639	194551	2251	171222	48.52	88.01
2015-16	4693	186988	2125	173681	45.28	92.88
2016-17	5076	239339	2322	205614	45.74	85.91
2017-18	5917	411677	2526	225590	42.69	54.8
H1:2018-19	3416	304202	1792	287505	52.5	94.51

a. Including outlier cases* 300 ลก 250 60 50 40 · of frauds 200 uoillion ₹ billion 30 N 100 20 50 10 Jun-17 Dec-17 Mar-18 Sep-17 Amount involved in other frauds ■ Large frauds (Amount involved > 0.5 billion) Number of large frauds (RHS)

Chart 3.10: Frauds reported in the banking sector (amount involved >= ₹0.1 million)



Note: * Outlier cases include cases where amount involved > ₹10 billion. **Source:** RBI supervisory returns and staff calculations.

by the banks and FIs during last 5 financial years and in the first half of the FY 2018-19.

3.51 In recent quarters, increasing incidences of frauds reported is accompanied by a marked rise in the number of large frauds (amount $\geq \ref{0.5}$ billion (Chart 3.10). The incidence of frauds is analysed here, for the past 6 quarters both with all the

reported data and after excluding the outlier cases (amount involved > 710 billion¹⁶).

- 3.52 In terms of the relative share of frauds, PSBs continue to dominate (Chart 3.11).
- 3.53 Frauds in loans and advances continued to dominate in both PSBs and PVBs, although recent trends point to increasing vulnerabilities in off-

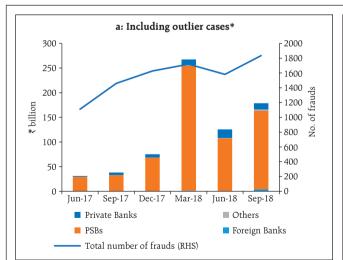
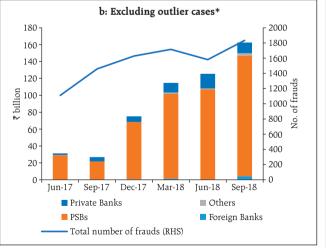


Chart 3.11: Relative share of bank groups in overall fraud amount reported (amount involved > = ₹0.1 million)



Note: * Outlier cases include cases where amount involved > ₹10 billion. Source: RBI supervisory returns and staff calculations.

 $^{^{16}}$ The threshold was chosen as the 99.9 percentile based on data of the past 6 quarters , June 2017-Sept 2018

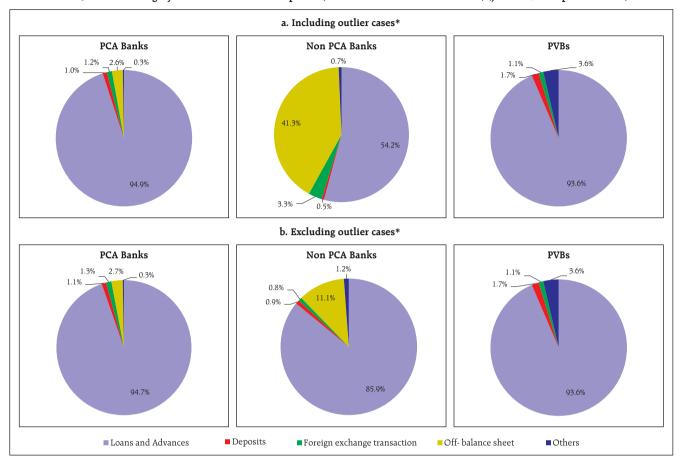


Chart 3.12: Fraud category share in overall frauds reported (amount involved >= ₹0.1 million) (June 2017 to September 2018)

Note: * Outlier cases include cases where amount involved > ₹10 billion. Source: RBI supervisory returns and staff calculations.

balance sheet exposures especially of non-PCA PSBs (Chart 3.12).

3.54 While loans, particularly working capital loans in PSB frauds dominated (Chart 3.13a), as highlighted in the June 2018 FSR, a similar analysis

for PVBs indicates that higher fraud incidences relate to term loans (Chart 3.13c).

3.55 Given the relatively high susceptibility of PSBs to operational risk, the relative capitalisation of such banks with regards to operational risk

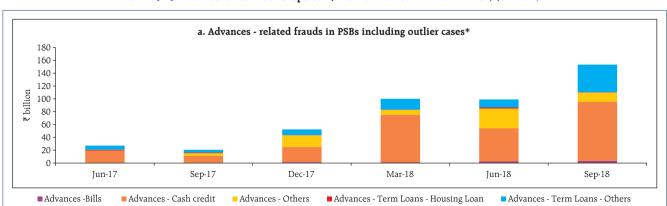


Chart 3.13: Advance related frauds reported (amount involved > = ₹0.1 million) (Contd....)

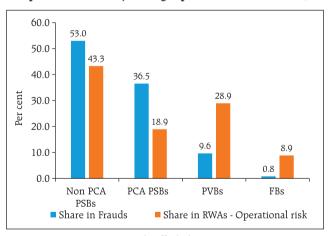
b. Advances - related frauds in PSBs excluding outlier cases* 160 140 120 u 100 80 € 60 60 40 20 Jun-17 Sep-17 Dec-17 Mar-18 Jun-18 Sep-18 c. Advances - related frauds in PVBs 16 14 12 10 8 6 Jun-18 Dec-17 Mar-18 Jun-17 Sep-17 Sep-18 Advances - Others ■ Advances - Term Loans - Housing Loan Advances - Term Loans - Others Advances -Bills Advances - Cash credit

Chart 3.13: Advance related frauds (Concld.)

Note: * Outlier cases include cases where amount involved > ₹10 billion. Source: RBI supervisory returns and staff calculations.

becomes relevant. Chart 3.14 shows the relative share of different bank-groups in frauds (a proxy for realised operational risk) as also their relative share in Operational Risk RWA (i.e., capital dedicated to operational risk). As can be seen in the chart, illustratively, PCA-PSBs contributed to about 36.5 per cent of total frauds over the past four years, but their relative share in total RWAs for Operational risk is much lower at 18.9 per cent. A more judicious alignment of realised operational risk with allocated capital, specifically with regards to PCA-PSBs, is desirable. Additionally, as mentioned in the 17th edition of FSR (June 2018) a ringside assessment of efficacy of audit framework (both internal and external), the internal governance framework, with regard to accountability and credit screening/ oversight is required specifically for PSBs to address the issues arising out of "operational risk" embedded in credit risk.

Chart 3.14: Relative share in frauds reported and risk weighted assets for Operational Risk of major bank groups (FY 2014-15 to FY 2017-18)



Source: RBI supervisory returns and staff calculations.

3.56 In light of the growing incidence of large frauds through off-balance sheet instruments, usage of cross validation of off-balance sheet exposures across banks assume importance. Additionally, the predominance of frauds among PSBs point to

possible inadequacy of risk mitigation processes. The assessment and inculcation of appropriate Risk Culture in an organisational milieu assumes importance in this regard. Box 3.4 explores some salient features relating to Risk Culture.

Box 3.4: Risk Culture

According to financial historian Peter L. Bernstein, 'The word 'risk' derives from the early Italian *risicare*, which means 'to dare'. In this sense, risk is a choice rather than a fate. The actions we dare to take, which depend on how free we are to make choices, are what the story of risk is all about.' Bernstein was trying to explain risk in a larger context, in his book 'Against the Gods; The remarkable story of Risk'.

The Institute of International Finance (IIF) defines risk culture as "the norms and traditions of behaviour of individuals and of groups within an organisation that determine the way in which they identify, understand, discuss, and act on the risks the organisation confronts and the risks it takes". Risk has a well-defined set of expectations that are quantitative. But culture has an element of "you know it when you see it" embedded within which makes it time, person as well as organisation specific and hence difficult to measure. Therefore, new mechanisms and techniques are required to be put in place to ensure that risk culture is embedded in decisions, and there needs to be more intensive scrutiny within firms of wider factors driving behaviour.

The issue is particularly relevant in the context of behavioural research results by Jennifer Lerner and Philip Tetlock that people are motivated to think in a critical manner only when held accountable by others. Hence, if organisation culture promotes accountable decision making, employees are less likely to be biased towards confirmatory evidence.

Hence, while risk culture is influenced by the overall culture, it is also influenced by behavioural elements, incentive structures, accountability framework in firms as also risk awareness and controls. Jackson (2014) notes

that in order to understand the range of elements that come into play regarding risk culture, it is instructive to look at failures of it across a broad range of categories:

- i) Lack of focus on known but unlikely risks
- ii) Trade-offs leading to too much risk
- iii) Failure of senior management to uncover risks
- iv) Risk reduction not seen as a priority by employees
- v) Individual risky behaviour

Assessing risk culture

The challenge facing an assessment of risk culture primarily emanates from the fact that such an assessment is required to be separated from broader, existing programmes focusing on culture and values in a typical multicultural international financial institution. While both risk culture assessment programmes and programmes related to culture and values attempt to set expectations about staff attitudes and behaviour, the scope of risk culture is more specific; in this case, the attitudes and behaviour relate specifically to risk management.

While the top executive committee including the board, which is generally charged with responsibilities relating to conduct primarily relies on various surveys to assess actual risk culture and its impact on control and governance, it has been pointed out in the literature that one-off surveys may not be able to capture the mutation of attitude to risk and compliance. Hence, there should be ongoing dashboards and indicators on the issue.

Creating an appropriate risk culture

Creating an appropriate environment of risk culture implies embedding a wide variety of elements

(Contd...)

within it. Some of the critical elements are 17:

- 1. Risk appetite The common failures of risk culture emanate from the fact that losses or damage to reputation, if assessed appropriately, ex-ante, would not have been found acceptable. Yet, the current definition in vogue for risk appetite does not often lead to a practical assessment of risk-return trade off. To fill this role, risk appetite has to have real bite in terms of clear metrics that can be controlled against and monitored. While this alone may not be enough to deliver a strong risk culture, such measurable metrics provide a framework against which decisions can be tested and controls can be assessed.
- Values and behaviours In general, employees will behave in a way that they perceive the organisation expects them to. Yet, by following the expected behaviour, the required values and culture may not necessarily emerge since such a behaviour should also fit with the business model.

Incentives-

- a. Performance management systems and risk-based remuneration may go a long way in aligning risks with rewards. Deferred remuneration, as also remuneration structures that have no upside if profits are higher but have a downside if profits fall on certain trigger points are being considered in some European regimes to promote risk-based remuneration.
- b. Wider non-pecuniary incentives play an equally important role in risk culture. The promotion of risk and compliance officials in the internal hierarchy as well as intangible incentives such as 'status' play an important role in promoting risk

compliant behaviour.

- c. Accountability as to who is responsible for a failure in risk culture whether it is the business line or the risk management is not always transparently determined in organisations. There is an incentive led logic to ensure that the accountability for risk failure should rest with the line that creates it.
- 4. Risk transparency-Such transparency has both an internal and an external feature. Internal transparency enables the management to react and keep risks within the risk appetite while external transparency enables external stakeholders to understand the risk culture and react appropriately.

Since a wide range of elements influence risk culture, programmes that are just focused to influence risk culture are less likely to succeed. Issues like a risk appetite consistent with business targets, behaviour and a wider role for incentives stand out. Cultural traits such as openness, ability to speak up — more importantly the safety nets to ensure early acceptance and acknowledgement of mistakes and learning from them foster psychological safety and are said to nurture healthier cultures and tend to be better at addressing wrongdoing and avoiding dysfunctional behaviour in an organisation. A good organisational culture not just ensures that good people don't do bad things, it enables good people to do better things.

References:

Peter L. Bernstein (1996): "Against the Gods: The Remarkable Story of Risk", John Wiley & Sons

Patricia Jackson (2014): "Risk Culture and Effective Risk Governance", available at https://riskbooks.com/risk-culture-and-effective-risk-governance

Financial Conduct Authority UK (2018): "Transforming Culture in Financial Services", available at: https://www.fca.org.uk/publication/discussion/dp18-02.pdf.

¹⁷ Adapted from "Risk Culture and Effective Risk Governance"- Edited by Patricia Jackson, Risk Books, September, 2014. https://www.fca.org.uk/publications/discussion-papers/dp18-2-transforming-culture-financial-services.

(C) Outsourcing in financial services

3.57 The Reserve Bank had conducted a thematic study on operations of the service centres/business process outsourcing subsidiaries of major foreign banks. The study revealed that outsourcing agencies/group entities were working as per mandate given to them and no such concerns were observed which may expose banks to reputation risk.

3.58 Some of the concerns/risks observed were:

- The employees in the outsourced agency had the same access rights, both read/write, to the bank's CBS. Further, it was also observed that user control related activities such as password resetting, access rights to bank's applications and change request, were handled by the outsourced agency.
- Banks' Service Level Agreements (SLAs) with their outsourced agencies did not recognise the Reserve Bank's right to inspect the service provider of the banks and their books and accounts by one or more officers or employees or other persons.
- People risk was elevated on account of a significant amount of cost being incurred on outsourced services.

The deficiencies observed were taken up with the respective banks for rectification.

(D) Storage of payment system data

3.59 To ensure better monitoring it is important to have unconstrained supervisory access to data stored with system/service providers in the payment ecosystem. Acknowledging this need and the growth of digital payments sector in India, the Reserve bank issued directives on storage of payment system data recently. The notification directs all digital payment system providers to ensure that all the data relating to payment systems operated by them are only stored in India. This data should include full end-

to-end transaction details / information collected / carried / processed as part of the message / payment instruction. For the foreign leg of the transaction, if any, the data can also be stored in the foreign country, if required. Payment system providers are required to do an audit through CERT-IN empanelled auditors by and a compliance report is to be submitted to the Reserve Bank by the end of 2018.

VII. Supervision and enforcement

During the period July 01, 2017 to June 30, 2018 the Enforcement Department undertook enforcement action against 14 banks (including a payment bank and a small finance bank) and imposed an aggregate penalty of ₹1,024 million. From July 01, 2018 to October 31, 2018, enforcement action was undertaken against seven banks (including a payments bank and a cooperative bank) and an aggregate penalty of ₹142 million was imposed for non-compliance with/contravention of directions on fraud classification and reporting, discipline to be maintained while opening current accounts and reporting to the CRILC platform and RBS; violations of directions/ guidelines issued by the Reserve Bank on know your customer (KYC) norms, Income Recognition & Asset Classification (IRAC) norms; delay in resolution of ATM related grievances; violation of all-inclusive directions and non-compliance with specific direction prohibiting opening of new accounts. Enforcement of regulations pertaining to cooperative banks and non-banking financial companies too has been brought under the Department with effect from October 03, 2018.

VIII. Other developments

3.61 An extensive database of credit information for India that is accessible to all stakeholders helps in enhancing efficiency of the credit market, increase financial inclusion, improve ease of doing business, and help control delinquencies and hence is financial stability inducing. In this regard, the

Reserve Bank has initiated steps to set up a wide-based digital Public Credit Registry (PCR) to capture details of all borrowers, including wilful defaulters and also the pending legal suits in order to check financial delinquencies. The PCR will also include data from entities like SEBI, the corporate affairs ministry, Goods and Service Tax Network (GSTN) and the Insolvency and Bankruptcy Board of India (IBBI) to enable the banks and financial institutions to get a 360-degree profile of existing and prospective borrowers on a real-time basis.

3.62 Steps have also been taken to strengthen the financial and regulatory framework in Gujarat International Finance Tec (GIFT) City so as to develop appropriate prudential standards and facilitate orderly development of financial infrastructure.