# First Bi-monthly Monetary Policy Statement, 2018-19 Resolution of the Monetary Policy Committee (MPC) Reserve Bank of India \*

On the basis of an assessment of the current and evolving macroeconomic situation<sup>1</sup> at its meeting today, the Monetary Policy Committee (MPC) decided to:

 keep the policy repo rate under the liquidity adjustment facility (LAF) unchanged at 6.0 per cent.

Consequently, the reverse repo rate under the LAF remains at 5.75 per cent, and the marginal standing facility (MSF) rate and the Bank Rate at 6.25 per cent.

The decision of the MPC is consistent with the neutral stance of monetary policy in consonance with the objective of achieving the medium-term target for consumer price index (CPI) inflation of 4 per cent within a band of +/-2 per cent, while supporting growth. The main considerations underlying the decision are set out in the statement below.

#### Assessment

2. Since the MPC's last meeting in February 2018, global economic activity has gathered further momentum, both in advanced and emerging market economies, though financial market volatility and potential trade wars pose a threat to the outlook. Among advanced economies (AEs), the US economy, which ended 2017 on a slightly weak note, appeared to have bounced back in Q1:2018; the unemployment rate remains low with hiring around multi-month highs. In the Euro Area, economic activity remained buoyant, although consumer spending and factory

activity slowed down due to the strengthening of the euro, but a consistently falling unemployment rate and elevated consumer confidence continued to underpin the strength of the economy. The Japanese economy registered eight straight quarters of growth till Q4:2017; available data for 2018 point to a slower start to the year with weak machinery orders and an easing manufacturing Purchasing Manager's Index (PMI) in February-March.

3. Economic activity remained robust in emerging market economies (EMEs) in Q1:2018. The Chinese economy started the year on a strong note; retail sales picked up pace indicating robust consumption, while industrial production also registered a strong increase in Q1:2018 on improved mining and manufacturing activity. In Brazil, economic activity is gaining momentum, driven by higher commodity prices. The Russian economy continued to recover in Q1; industrial production expanded in January-February, after two months of contraction, while exports grew at a robust pace. In South Africa, leading indicators, *viz.*, the manufacturing PMI and business confidence, improved in Q1.

World trade volume growth is expected to have 4. been robust in Q1, as gauged from the data on container trade throughput, air freight and export orders. Crude oil prices have become volatile in the recent period. After softening in February from multi-year highs on increased production in the US, crude prices hardened in the second half of March, driven by rebalancing of supply by OPEC and Russia, and drawdown of US inventories. Metal prices have come under selling pressure, with copper touching a three-month low in March on uncertainty stemming from global trade protectionism and US monetary policy. Gold prices, which touched a two-month low in March, have recently witnessed some uptick on fears of intensification of a trade war. Inflation remains below target in many key AEs and EMEs.

5. Financial markets turned volatile in February-March, triggered by uncertainty regarding the pace of

<sup>\*</sup> Released on April 05, 2018.

<sup>&</sup>lt;sup>1</sup> From this resolution onwards, growth in gross domestic product (GDP) will be used as the headline measure of economic activity.

normalisation of US monetary policy, and concerns surrounding global trade. Equity markets globally have shed most of the gains of the previous quarter in a heavy sell off in February-March, caused by optimistic US job reports and the US imposition of new tariffs on Chinese goods. Yields in the US traded sideways on weaker than expected inflation pressures and the anticipated rate hike by the Fed. Yields in other major AEs have fallen, while among EMEs, they have remained divergent on country-specific factors. In currency markets, the US dollar, which recovered somewhat in early March on an optimistic outlook of the economy, shed most of its gains in the latter part of the month on a less hawkish stance of the Fed and on anxieties surrounding a possible trade war. Among other major currencies, the euro continued to appreciate on an improving growth outlook for the region. Most EME currencies have retreated in the wake of the recent market volatility and the improving US economic outlook, though investors continued to discriminate on country-specific factors.

Turning to the domestic economy, the Central 6. Statistics Office (CSO) released its second advance estimates for 2017-18 on February 28, revising India's real gross domestic product (GDP) growth marginally upward to 6.6 per cent from 6.5 per cent in the first advance estimates released on January 5. GDP growth in 2017-18 at 6.6 per cent was lower than 7.1 per cent in 2016-17 and the deceleration was broad-based, but each component revealed intra-year turning points. Private consumption growth – whose contribution to GDP growth in 2017-18 was 68 per cent - moderated in the second half. Goods and services tax (GST) implementation had an adverse, even if transient, effect on urban consumption through loss of output and employment in the labour-intensive unorganised sector. Government expenditure provided sustained support to aggregate demand, with a pick-up in pace in the second half. Gross fixed capital formation turned around in Q2 and accelerated in the second half – markedly so in Q3 – reflecting the first signs of a sustained expansion in capital goods production and a modest revival of construction activity. Net exports

dragged down aggregate demand in 2017-18 due to a surge in imports and deceleration in exports in Q3, the latter being driven in part by GST-related working capital disruptions.

For Q4, high frequency indicators point to a 7. further strengthening of demand conditions. Private consumption seems to be improving on the back of strong growth in domestic air passenger traffic and foreign tourist arrivals, rising sales growth of passenger vehicles and a strong upturn in the production of consumer durables. The growth in sales of two-wheelers and tractors reflects buoyant rural consumption. Capital goods production registered a 19-month high growth in January 2018, indicative of the likely traction in investment demand. Housing loans extended by banks have increased significantly, which is a positive for residential investment. External demand remains a weak link. Merchandise import growth has slowed because of gold imports; simultaneously export growth has also weakened.

Turning to the supply side at a disaggregated 8. sectoral level, the kharif foodgrains production for 2017-18 has been revised upward by 2.8 per cent in the second advance estimates released in February 2018 as compared with the first advance estimates released in September 2017. Total foodgrains production for 2017-18 is estimated at 277.5 million tonnes, up by 0.9 per cent from the level of 2016-17, with the production of rice, pulses and coarse cereals estimated to reach a record high. Wheat production is estimated to be lower than last year due to a decline in acreage and low soil moisture, but imports of 1.6 million tonnes and comfortable buffer stocks should cushion potential adverse effects. Horticulture production touched a new peak of 305.4 million tonnes in 2017-18, up by 1.6 per cent from last year.

9. For the year 2017-18 as a whole, the CSO estimates that value added in industry decelerated in relation to the previous year: in terms of quarterly performance, however, expansion set in by Q2 and was built upon in Q3 and Q4. This was mainly driven by the rebound

in manufacturing. The manufacturing PMI remained in an expansionary mode for the eighth consecutive month in March, although there was some moderation in O4. Assessment of overall business sentiment for manufacturing also improved in Q4 as reflected in the Reserve Bank's Industrial Outlook Survey, driven by increasing output and new orders. Growth of value added in the services sector accelerated through the year, driven by trade, hotels, transport and communication and a significant pick-up in construction activity. Other high frequency indicators of services sector activity such as domestic air passenger traffic, international freight traffic, port traffic and commercial vehicles sales also expanded at a fair pace. The services PMI moved out of contraction and stabilised in March on a renewed increase in new business and strengthening expectations.

10. Retail inflation, measured by the year-on-year change in the CPI, fell from a high of 5.1 per cent in January to 4.4 per cent in February due to a decline in inflation in food and fuel. Excluding the estimated impact of an increase in the house rent allowances (HRA) for central government employees under the 7<sup>th</sup> central pay commission (CPC), the headline inflation for February was at 4.1 per cent. Food inflation declined by 120 bps in February, pulled down by a sharp decline in vegetable prices, especially of onions and tomatoes, along with continuing deflation in pulses. The fall in prices was also observed in other food components such as eggs, sugar, meat and fish, oils, spices, cereals and milk.

11. In the fuel and light group, inflation in respect of liquefied petroleum gas declined in line with international price movements. Furthermore, the rate of increase in prices of firewood and chips, and dung cake moderated.

12. CPI inflation excluding food and fuel remained unchanged at 5.2 per cent for the third consecutive month in February, after rising from its trough in June 2017. Among its constituents, housing group inflation

rose significantly, reflecting the HRA increase for central government employees. Excluding the HRA impact, inflation in this group was estimated markedly lower at 4.4 per cent. Inflation in the transport and communication group increased in February on account of the rise in petroleum product prices and transportation fares. Inflation either eased or remained at a low level in February in other major sub-groups such as household goods and services, recreation and amusement, education, and personal care and effects.

13. Households' inflation expectations, measured by the March 2018 round of the Reserve Bank's survey of households, edged up for both three-month and oneyear ahead horizons. Manufacturing firms covered in the Reserve Bank's Industrial Outlook Survey reported input price pressures and an increase in selling prices in Q4:2017-18, which are expected to continue in Q1:2018-19. Manufacturing and services firms polled by PMI also showed a rise in input and output prices in Q4.

14. Liquidity in the system moved between surplus and deficit during February-March 2018. From a daily net average surplus of ₹272 billion during February 1-11, 2018, liquidity moved into deficit during February 12-March 1, reflecting a slowdown in government spending and large tax collections. After turning into surplus during March 2-15, the system moved into deficit again during March 16-22 mainly on account of quarterly advance tax outflows. Anticipating the seasonal tightening of liquidity at the end of March, the Reserve Bank conducted four additional longer tenor (24-31 days) variable rate repo operations aggregating ₹1 trillion, apart from the regular repo operations. In mid-March, additional liquidity of ₹1 trillion got released into the system through redemption of Treasury Bills issued under the Market Stabilisation Scheme (MSS) in April and May 2017. On the whole, the Reserve Bank injected ₹60 billion and ₹213 billion on a net daily average basis in February and March, respectively. The weighted average call rate (WACR) inched closer to the policy repo rate from 12 basis points below the policy rate in January to 7 bps in February, and 5 bps in March. 15. Merchandise export growth decelerated in January and February 2018, pulled down by a slowdown in exports of gems and jewellery, readymade garments and engineering goods. Import growth also moderated in February due to a decline in gold imports, lower growth in non-oil non-gold imports, and contraction in imports of transport equipment, vegetable oils and pulses. As import growth continued to exceed export growth in January-February, the trade deficit widened. The current account deficit increased in O3:2017-18, primarily on account of the higher trade deficit. Net foreign direct investment moderated in April-January 2017-18 vis-à-vis the level a year ago. Foreign portfolio investors made net purchases in 2017-18, despite net sales in the wake of a global sell-off in February. India's foreign exchange reserves were at US\$ 424.4 billion on March 30, 2018.

# Outlook

16. The Sixth bi-monthly resolution of 2017-18 in February projected CPI inflation at 5.1 per cent in Q4:2017-18; and in the range of 5.1-5.6 per cent in H1:2018-19 and 4.5-4.6 per cent in H2, including the HRA impact, with risks tilted to the upside. Actual inflation outcomes in January-February averaged 4.8 per cent, largely reflecting the sharp decline in vegetable prices and significant moderation in fuel group inflation. The available information suggests that vegetable prices continued to moderate in March as well. Accordingly, inflation in Q4:2017-18 is now projected at 4.5 per cent.

17. Several factors are likely to influence the inflation outlook. First, with the sharp moderation in food prices in February-March, the inflation trajectory in H1:2018-19 is expected to be lower than the projection in the February statement, despite a likely reversal in food prices in H1. Overall food inflation should remain under check on the assumption of a normal monsoon and effective supply management by the Government. Second, international crude oil prices have become volatile in the recent period, with a distinct hardening

bias in the second half of March, even as the increase in shale production was more than expected. This has adversely impacted the outlook for crude oil prices. Third, on current assessment, Indian domestic demand is expected to strengthen during the course of the year. Fourth, the statistical impact of an increase in HRA for central government employees under the 7<sup>th</sup> CPC will continue till mid-2018, and gradually dissipate thereafter.

18. Taking these factors into consideration, projected CPI inflation for 2018-19 is revised to 4.7-5.1 per cent in H1:2018-19 and 4.4 per cent in H2, including the HRA impact for central government employees, with risks tilted to the upside (Chart 1). Excluding the impact of HRA revisions, CPI inflation is projected at 4.4-4.7 per cent in H1:2018-19 and 4.4 per cent in H2.

19. Turning to the growth outlook, several factors are expected to accelerate the pace of economic activity in 2018-19. First, there are now clearer signs of revival in investment activity as reflected in the sustained expansion in capital goods production and still rising imports, *albeit* at a slower pace than in January. Second, global demand has been improving, which should encourage exports and boost fresh investment. On the





whole, GDP growth is projected to strengthen from 6.6 per cent in 2017-18 to 7.4 per cent in 2018-19 – in the range of 7.3-7.4 per cent in H1 and 7.3-7.6 per cent in H2 – with risks evenly balanced (Chart 2).<sup>2</sup>

20. The MPC notes that there are several uncertainties surrounding the baseline inflation path. First, the revised formula for MSP as announced in the Union Budget 2018-19 for kharif crops may have an impact on inflation, although the exact magnitude will be known only in the coming months. Second, the staggered impact of HRA revisions by various state governments may push headline inflation up. While the statistical impact of the HRA revisions will be looked through, there is a need to watch out for any second round effects. Third, in case there is any further fiscal slippage from the Union Budget estimates for 2018-19 or the medium-term path, it could adversely impact the outlook on inflation. There are also risks to inflation from fiscal slippages at the level of states on account of higher committed revenue expenditure. Fourth, should the monsoon turn deficient temporally and/or spatially, it may have a significant bearing on food inflation. Fifth, firms polled in the Reserve Bank's Industrial Outlook Survey expect input and output prices to rise, going forward. Sixth, recent volatility in crude prices has imparted considerable uncertainty to the near-term outlook.

21. Against the above backdrop, the MPC decided to keep the policy reporate on hold and continue with the neutral stance. The MPC reiterates its commitment to achieving the medium-term target for headline inflation of 4 per cent on a durable basis.

22. The MPC notes that growth has been recovering and the output gap is closing. This is also reflected in a pick-up in credit offtake in recent months. The large mobilisation of resources from the primary capital market should support investment activity further. While the domestic cyclical recovery is underway, the long-term growth potential is also expected to be reinforced by various structural reforms introduced in the recent past. On the downside, the deterioration in public finances risks crowding out private financing and investment. Furthermore, even as global growth and trade have been strengthening, rising trade protectionism and financial market volatility could derail the ongoing global recovery. In this unsettling global environment, it is especially important that domestic macroeconomic fundamentals are strengthened, deleveraging of distressed corporates and rebuilding of bank balance sheets persisted with, and the risk-sharing markets deepened.

23. Dr. Chetan Ghate, Dr. Pami Dua, Dr. Ravindra H. Dholakia, Dr. Viral V. Acharya and Dr. Urjit R. Patel voted in favour of the monetary policy decision. Dr. Michael Debabrata Patra voted for an increase in the policy rate of 25 basis points. The minutes of the MPC's meeting will be published by April 19, 2018.

The next meeting of the MPC is scheduled on June 5 and 6, 2018.

 $<sup>^2</sup>$  The implicit GDP growth projection in the 6<sup>th</sup> bi-monthly monetary policy statement was 7.4 per cent for 2018-19 – in the range of 7.4-7.5 per cent in H1 and 7.3-7.4 per cent in H2.

### Statement on Developmental and Regulatory Policies

This Statement sets out various developmental and regulatory policy measures for strengthening regulation and supervision; broadening and deepening financial markets; improving currency management; promoting financial inclusion and literacy; and, facilitating data management.

### I. Regulation and Supervision

# 1. Mandatory Loan Component in Working Capital Finance

With a view to promoting greater credit discipline among working capital borrowers, it is proposed to stipulate a minimum level of 'loan component' in fund based working capital finance for larger borrowers. Draft Guidelines are being issued for feedback in this regard.

## 2. Countercyclical Capital Buffer

The framework on countercyclical capital buffer (CCCB) was put in place by the Reserve Bank in terms of guidelines issued on February 5, 2015 wherein it was advised that the CCCB would be activated as and when the circumstances warranted, and that the decision would normally be pre-announced with a lead time of four quarters. The framework envisages the creditto-GDP gap as the main indicator, which may be used in conjunction with other supplementary indicators, viz., the Credit-Deposit (C-D) ratio for a moving period of three years (given its correlation with the credit-to-GDP gap and GNPA growth), industrial outlook (IO) assessment index (with due note of its correlation with GNPA growth), and interest coverage ratio (noting its correlation with the credit-to-GDP gap). Based on the review and empirical testing of CCCB indicators, it has been decided that it is not necessary to activate CCCB at this point in time.

# 3. Deferment of Indian Accounting Standards (Ind AS) implementation

Scheduled Commercial Banks (SCBs), excluding Regional Rural Banks (RRBs), were required to

implement Indian Accounting Standards (Ind AS) from April 1, 2018 vide our Circular dated February 11, 2016. However, necessary legislative amendments – to make the format of financial statements, prescribed in the Third Schedule to Banking Regulation Act 1949, compatible with accounts under Ind AS – are under consideration of the Government. In view of this, as also the level of preparedness of many banks, it has been decided to defer implementation of Ind AS by one year by when the necessary legislative changes are expected.

# 4. Storage of Payment System Data

In recent times, the payment ecosystem in India has expanded considerably with the emergence of new payment systems, players and platforms. Ensuring the safety and security of payment systems data by adoption of the best global standards and their continuous monitoring and surveillance is essential to reduce the risks from data breaches while maintaining a healthy pace of growth in digital payments.

It is observed that at present only certain payment system operators and their outsourcing partners store the payment system data either partly or completely in the country. In order to have unfettered access to all payment data for supervisory purposes, it has been decided that all payment system operators will ensure that data related to payment systems operated by them are stored only inside the country within a period of 6 months. Detailed instructions will be issued in this regard within one week.

## II. Financial Markets

# 5. Access for Non-residents into the IRS Market

Rupee Interest Rate Swap (IRS) market, while it is the most liquid among interest rate derivative markets, still lacks depth to enable large banks to manage risks. Thin participation and consequent absence of divergence of views result in pricing inefficiencies, which further discourages participation. At the same time, it is understood that there is an active market for Rupee interest rate swaps offshore. Also, Indian market has witnessed increasing participation from non-resident players like FPIs in debt. With a view to develop a deep IRS market that accommodates divergent participants, it is proposed to permit nonresidents access to the Rupee IRS market in India. Detailed draft regulation will be issued for public comments by end of May 2018.

### 6. Introduction of Rupee Swaptions

In December 2016, RBI introduced Rupee Interest Rate Options (IRO), following the recommendations of the P.G. Apte Working Group. Only plain vanilla Interest Rate Options were allowed initially. Subsequently, market participants including corporates have expressed the need for swaptions to effectively manage interest rate risk. Fixed Income Money Market and Derivatives Association of India (FIMMDA) has conveyed a similar request on behalf of its members. It is, therefore, proposed to permit interest rate swaptions in Rupees so as to enable better timing flexibility for those seeking to hedge interest rate risk. The directions will be issued by end of April 2018.

# 7. Review of Separate Trading of Registered Interest and Principal Securities (STRIPS) directions

The Reserve Bank introduced the Separate Trading of Registered Interest and Principal Securities (STRIPS) in Government Securities in April, 2010. After some initial interest, the product did not find much favour with the market. With a view to encouraging trading in STRIPS by making it more aligned with market requirements and to meet the diverse needs of the investors, it is proposed to review these guidelines. The revised directions will be issued by end of April 2018.

# 8. Legal Entity Identifier (LEI) for Non-individual Market Participants

The Legal Entity Identifier (LEI) code has been conceived as a key measure to improve the quality and accuracy of financial data systems for better risk management post the Global Financial Crisis. The LEI is a 20-character unique identity code assigned to entities who are parties to a financial transaction. RBI has already implemented the LEI code for all market participants in Over-the-Counter (OTC) derivative products in interest rate, currency and credit markets. It was also made applicable for large corporate borrowers. Continuing with this endeavour to improve transparency in financial markets, it is proposed to implement the LEI mechanism for all financial market transactions undertaken by non-individuals, in interest rate, currency or credit markets. Draft directions will be issued by end of April 2018.

# 9. Introduction of Single Master Form for Reporting of Foreign Direct Investment in India

Foreign Direct Investment in India, on a repatriable basis, is made by non-residents through eligible instruments such as Equity Shares, Compulsory Convertible Preference shares. Compulsorily Convertible Debentures, Share Warrants etc., issued by the investee company or by contributing to the capital of a Limited Liability Partnership (LLP). At present, the reporting of the above transactions resulting in foreign investment are in a disintegrated manner across various platforms/modes. The Reserve Bank plans to introduce an online reporting by June 30, 2018 via a Single Master Form which would subsume all reporting requirements, irrespective of the instrument through which the foreign investment is made.

#### 10. Reporting by Authorised Dealers

Currently, transactions under Liberalised Remittance Scheme (LRS) are being permitted by Authorised Dealer (AD) banks based on the declaration made by the remitter. As such, it is difficult for the AD banks to monitor/ensure that a remitter has not breached the prescribed limit by approaching multiple AD banks. With the objective of improved monitoring and ensuring compliance with the LRS ceilings, it has been decided to put in place a system for daily reporting of individual transactions by banks. This will, *inter alia*, enable the AD Banks to view the remittances already sent by an individual before allowing further remittance thus obviating the possibility of a remitter breaching the LRS limit by approaching multiple AD banks. Detailed instructions in this regard will be issued shortly.

# III. Currency Management

# 11. Norms for Cash-in-Transit (CIT) Industry and Promotion of Self-Regulatory Organisation by CIT Industry

In the Statement on Developmental and Regulatory Policies of February 7, 2018, the Reserve Bank had announced a time frame to implement the recommendations of the two high level inter-agency committees constituted by it to suggest measures for improvement of currency management, including security of movement of treasure. The Committees, *inter alia*, had recommended stipulation of minimum standards for cash logistics industry and promotion of a Self-Regulatory Organisation (SRO) for the industry.

Under the 'Guidelines on Managing Risks and Code i) of Conduct in Outsourcing of Financial Services' issued by the Reserve Bank in November 2006, cash management and logistics at the bank level has largely been outsourced to Cash-in-Transit (CIT) companies and Cash Replenishment Agencies (CRAs). There is, however, no regulation or supervision for this industry at present. With a view to promote healthy growth of the sector and mitigate risks associated with movement of currency through these agencies, Reserve Bank will require the banks to ensure that the CIT companies/CRAs engaged by them meet minimum prescribed standards. The instructions to the banks in this regard will be issued within a month.

ii) In order to ensure compliance with minimum standards for the CIT industry and other applicable laws, the Bank will encourage the cash management industry to promote a Self-Regulatory Organisation (SRO) for undertaking development work along with self-regulation of the industry, till such time that an appropriate legislative structure is put in place.

# 12. Central Bank Digital Currency

Rapid changes in the landscape of the payments industry along with factors such as emergence of private digital tokens and the rising costs of managing fiat paper/metallic money have led central banks around the world to explore the option of introducing fiat digital currencies. While many central banks are still engaged in the debate, an inter-departmental group has been constituted by the Reserve Bank to study and provide guidance on the desirability and feasibility to introduce a central bank digital currency. The Report will be submitted by end-June 2018.

# 13. Ring-fencing regulated entities from virtual currencies

Technological innovations, including those underlying virtual currencies, have the potential to improve the efficiency and inclusiveness of the financial system. However, Virtual Currencies (VCs), also variously referred to as crypto currencies and crypto assets, raise concerns of consumer protection, market integrity and money laundering, among others.

Reserve Bank has repeatedly cautioned users, holders and traders of virtual currencies, including Bitcoins, regarding various risks associated in dealing with such virtual currencies. In view of the associated risks, it has been decided that, with immediate effect, entities regulated by RBI shall not deal with or provide services to any individual or business entities dealing with or settling VCs. Regulated entities which already provide such services shall exit the relationship within a specified time. A circular in this regard is being issued separately.

#### IV. Financial Inclusion and Literacy

#### 14. Tailored Financial Literacy Content

A 'one size fits all' approach for imparting financial education to various target groups is sub-optimal. Financial education contents sought to be delivered to diverse target groups need to be customized to meet their typical target groups. The Reserve Bank is in the process of developing tailored financial literacy contents for five specified target groups' *viz.* Farmers, Small entrepreneurs, School children, Self Help Groups and Senior Citizens, that can be used by the trainers. The contents in the form of five booklets will be released within 15 days.

#### 15. Revamping of the Lead Bank Scheme

The Lead Bank Scheme was started to ensure economic development of the districts/states by establishing coordination between the banks and government agencies. The Scheme was last reviewed by a 'High Level Committee' under Smt Usha Thorat, erstwhile Deputy Governor of Reserve Bank of India, as the Chairperson in 2009. In view of several changes that have taken place in the financial sector over the years, Reserve Bank of India had constituted a 'Committee of Executive Directors' of the Bank to study the efficacy of the Scheme and suggest measures for its improvement. The Committee has since submitted its recommendations and it has been decided to realign the Lead Bank Scheme based on the recommendations to make it more relevant. Instructions on the revised scheme would be issued to the banks within 15 days.

#### V. Data Management

## 16. Creation of RBI Data Sciences Lab

It is critical for a full-service Central Bank, such as the RBI. with diverse responsibilities –inflation management, currency management, debt management, reserves management, banking regulation and supervision, financial inclusion, financial market intelligence and analysis, and overall financial stability - to employ relevant data and apply the right filters for improving its forecasting, nowcasting, surveillance and early-warning detection abilities that all aid policy formulation. In the backdrop of ongoing explosion in information gathering, computing capability and analytical toolkits, policy making benefits not only from data collected through regulatory returns and surveys but also from large volumes of structured and unstructured real-time information sourced from consumer interactions in the digital world. Accordingly, it has been decided to gainfully harness the power of Big Data analytics by setting up a Data Sciences Lab within the RBI that will comprise experts and budding analysts, internal as well as lateral, who are trained inter alia in Computer Science, Data Analytics, Statistics, Economics, Econometrics and/ or Finance. It is envisaged that the unit will become operational by December 2018.