

# **Half Yearly Report on Management of Foreign Exchange Reserves**

**October-March 2016-17**



**Reserve Bank of India**

**Department of External Investments and  
Operations (DEIO)**

**Central Office, Mumbai**

# Report on Management of Foreign Exchange Reserves

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# Developments during the Half Year ended March 2017

## I.1 Introduction

The Reserve Bank of India publishes half-yearly reports on management of foreign exchange reserves for bringing about more transparency and enhancing the level of disclosure. These reports are prepared half yearly with reference to the position as at end-March and end-September each year. The present report (28<sup>th</sup> in the series) is with reference to the position as at end-March 2017.

The report is divided into two parts: **Part I** contains the developments regarding movement of foreign exchange reserves, information on the external liabilities vis-à-vis the reserves and adequacy of reserves, *etc.*, during the half-year under review. Objectives of reserve management, statutory provisions, risk management practices, information on transparency and disclosure practices followed by the RBI with regard to reserve management are covered in **Part II**.

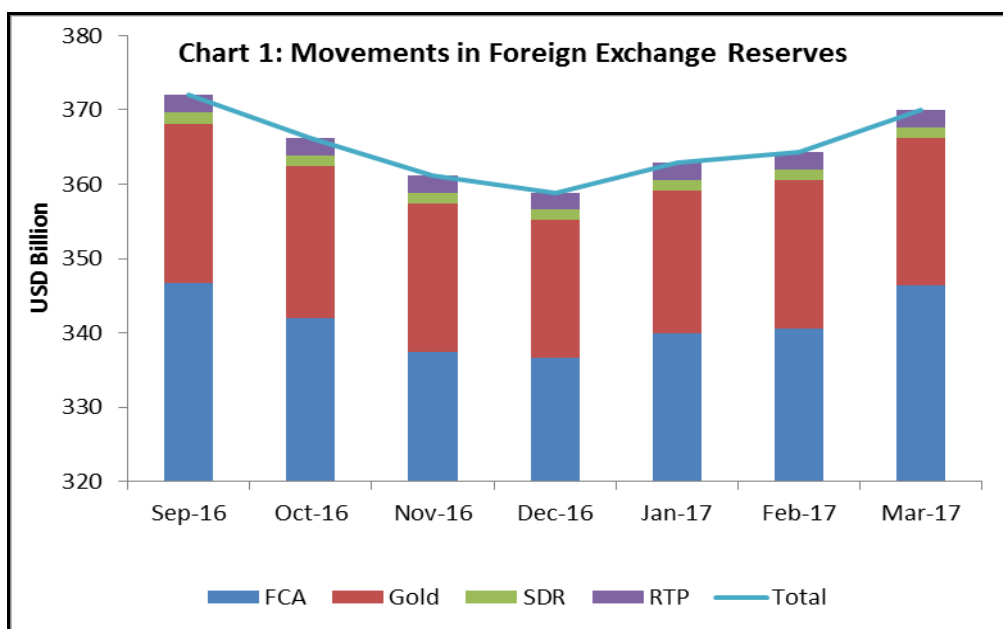
## I.2 Movement of Foreign Exchange Reserves

### I.2.1 Review of Growth of Foreign Exchange Reserves

The foreign exchange reserves stood at USD 372.0 billion as at end-September 2016. During the half year under review, reserves decreased to USD 366.2 billion as at end-October 2016, and to USD 361.1 billion as at end-November 2016. Reserves further declined to USD 358.9 billion as at end-December 2016. Subsequent months witnessed an increase in the reserves, which stood at USD 362.9 billion as at end-January 2017, USD 364.2 billion as at end-February 2017, and USD 369.9 billion as at end of March 2017 (Table 1 and Chart 1).

Although both US dollar and Euro are intervention currencies and the Foreign Currency Assets (FCA) are maintained in major currencies, the foreign exchange reserves are denominated and expressed in US dollar only. Movements in the FCA occur mainly on account of purchases and sales of foreign exchange by the RBI, income arising out of the deployment of the foreign exchange reserves, external aid receipts of the Central Government and changes on account of revaluation of the assets.

<b>Table 1 : Movement in Foreign Exchange Reserves</b>					
(USD Million)					
<b>Month End</b>	<b>FCA</b>	<b>Gold</b>	<b>SDR</b>	<b>RTP</b>	<b>Forex Reserves</b>
September-16	346711	21406	1487	2386	371990
			(1066)		
October-16	341945	20461	1462	2345	366212
			(1066)		
November-16	337382	19983	1442	2314	361121
			(1065)		
December-16	336583	18584	1432	2299	358898
			(1066)		
January-17	339932	19248	1448	2324	362953
			(1065)		
February-17	340586	19914	1443	2316	364259
			(1066)		
March-17	346319	19869	1447	2321	369955
			(1066)		
<b>Notes:</b>					
(i) FCA (Foreign Currency Assets): FCA are maintained as a multi-currency portfolio comprising major currencies, such as, US dollar, Euro, Pound sterling, Japanese yen, etc. and are valued in terms of US dollars.					
(ii) FCA excludes (a) investment in bonds issued by IIFC (UK) (b) SDR holdings of Reserve Bank, which is included under SDR and (c) amount lent to Maldives under SAARC Swap Arrangement.					
(iii) SDR (Special Drawing Rights): (Values in SDR have been indicated in parentheses.)					
(iv) RTP refers to the Reserve Tranche Position in the IMF.					
(v) Difference, if any, is due to rounding off.					



## I.2.2 Sources of Accretion to Foreign Exchange Reserves

Table 2 provides details of sources of variation in foreign exchange reserves during April 2016 to March 2017 vis-à-vis the corresponding period of the previous year. On balance of payments (BoP) basis (*i.e.*, excluding valuation effects), the foreign exchange reserves increased by USD 21.6 billion during 2016-17 as compared with an increase of USD 17.9 billion during the same period previous year. The valuation loss, mainly reflecting the appreciation of the US dollar against major currencies, amounted to USD 11.8 billion during 2016-17 as against a gain of USD 0.6 billion during the same period of the preceding year.

(USD billion)			
	Items	2015-16 Apr-Mar	2016-17 Apr-Mar
I.	Current Account Balance	-22.2	-15.3
II.	Capital Account (net) (a to f)	40.1	36.8
a.	Foreign Investment	31.9	43.2
(i)	Foreign Direct Investment	36.0	35.6
(ii)	Portfolio Investment,	-4.1	7.6
	[(of which)]		
	FII	-4.0	7.8
	ADR/GDR	0.4	0.0
b.	Banking Capital, (of which)	10.6	-16.6
	[(of which)]		

	NRI Deposits	16.1	-12.4
c.	Short term credit	-1.6	6.5
d.	External Assistance	1.5	2.0
e.	External Commercial Borrowings	-4.5	-6.1
f.	Other items in capital account	2.2	7.9
<b>III.</b>	<b>Valuation change</b>	<b>0.6</b>	<b>-11.8</b>
	<b>Total (I+II+III) @</b> Increase in reserves (+) / Decrease in reserves (-)	<b>18.5</b>	<b>9.8</b>
<p>*: Based on old format of BoP.  @: Difference, if any, is due to rounding off.  Note: 'Other items in capital account' apart from 'Errors and Omissions' include SDR allocations, leads and lags in exports, funds held abroad, advances received pending issue of shares under FDI and transactions of capital receipts not included elsewhere.</p>			

### I.3 Forward Outstanding

The net forward assets (receivables) of the Reserve Bank in domestic foreign exchange market stood at USD 10,835 million as at the end of March 2017.

### I.4 External Liabilities vis-à-vis Foreign Exchange Reserves

India's International Investment Position (IIP), which is a summary record of the stock of country's external financial assets and liabilities as at end-March 2017, is furnished in Table 3.

<b>Table 3: International Investment Position of India</b>			
(USD Billion)			
<b>Item</b>		<b>End-Sep 2016 (PR)</b>	<b>End-March 2017 (P)</b>
A. Total External Assets		566.9	565.8
1.	Direct Investment	140.6	148.2
2.	Portfolio Investment	2.3	2.6
3.	Other Investment	52.0	45.0
4.	Foreign Exchange Reserves	372.0	370.0
B. Total External Liabilities		933.8	958.7
1.	Direct Investment	311.7	342.7
2.	Portfolio Investment	232.1	238.7
3.	Other Investment	390	377.3
C.	Net IIP (A-B)@	(-) 366.9	(-) 392.9
P: Provisional, PR: Partially Revised; @ Difference, if any, is due to rounding off.			

The net IIP as at end-March 2017 was negative at USD 392.9 billion, implying that our external liabilities are more than external assets. The net IIP as at end-March 2016 and end- September 2016 was USD (-) 359.5 billion and USD (-) 366.9 billion respectively<sup>1</sup>.

### **I.5 Adequacy of Reserves**

At the end of March 2017, the import cover decreased to 11.3 months from 12.0 months at end-September 2016. The ratio of short-term debt to foreign exchange reserves, which was 21.8 per cent at end-September 2016, increased to 23.8 per cent at end-March 2017. The ratio of volatile capital flows (defined to include cumulative portfolio inflows and outstanding short-term debt) to reserves increased from 85.8 per cent at end-September 2016 to 88.1 per cent at end-March 2017.

### **I.6. Management of Gold Reserves**

The Reserve Bank holds 557.77 tonnes of gold; of which, 265.49 tonnes are held overseas in safe custody with the Bank of England and the Bank for International Settlements (BIS). Gold as a share of the total foreign exchange reserves in value terms (USD) stood at about 5.37 per cent as at end-March, 2017.

### **I.7 Investment Pattern and Earnings of the Foreign Currency Assets**

The foreign currency assets comprise multi-currency assets that are held in multi-asset portfolios as per the existing norms, which are similar to the best international practices followed in this regard. As at end-March 2017 out of the total foreign currency assets of USD 346.32 billion, USD 212.9 billion was invested in securities, USD 107.22 billion was deposited with other central banks, the BIS and the International Monetary Fund (IMF) and remaining USD 26.2 billion comprised deposits with overseas branches of commercial banks (Table 4).

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<sup>1</sup> Partially revised figures and may not tally with figures published in the previous reports.

<b>Table 4 : Deployment Pattern of Foreign Currency Assets</b>		
	(USD Million)	
	<b>As at end of Sep 2016</b>	<b>As at end of Mar 2017</b>
Foreign Currency Assets (FCA) *	346,711	346,319
(a) Securities	228,986	212,891
	(66.1)	(61.5)
(b) Deposits with other central banks, BIS & IMF	95,724	107,226
	(27.6)	(31.0)
(c) Deposits with overseas branches of commercial banks	22,001	26,202
	(6.3)	(7.5)
* FCA excludes (a) investment in bonds issued by IIFC (UK) (b) SDR holdings of Reserve Bank which is included under SDR and (c) amount lent to Maldives under SAARC Swap Arrangement.		
<b>Note:</b> Figures in parenthesis indicate percentage to total FCA.		

## **I.8 Other Related Aspects**

### **I.8.1 Financial Transaction Plan (FTP) of the IMF**

During the half year under review, there were (a) nil purchase transaction and (b) One repurchase transaction amounting to USD 214.37 million.

### **I.8.2 Investments under New Arrangements to Borrow (NAB) and Note Purchase Agreement (NPA) with IMF**

The IMF's amended and expanded New Arrangements to Borrow (NAB) became effective on March 11, 2011. India had committed to provide resources up to SDR 8,740.82 million to the IMF under this arrangement. Consequent to the payment of quota increase to IMF under the Fourteenth General Review of Quotas in February 2016, India's commitment under NAB has been reduced to SDR 4,440.91 million in February 2016. RBI has subscribed to Notes equivalent to SDR 618.70 million under NAB till end - March, 2017, as part of GoI's Contribution.

In terms of the Note Purchase Agreement (NPA) 2012, entered into between RBI and IMF, RBI has agreed to invest an amount equivalent to USD 10 billion in SDR denominated Notes issued by IMF.



### **I.8.3 SAARC Swap Arrangement between India and Sri Lanka**

During second half of 2016-17, Sri Lanka availed USD 400 million which it repaid on March 29, 2017.

### **I.8.4 SAARC Swap Arrangement between India and Maldives**

Maldives had availed USD 100 million on December 28, 2016 for three months, which has been rolled over for three months on March 29, 2017.

### **I.8.5 Investment in bonds issued by IIFC (UK)**

The Reserve Bank has the mandate to invest up to USD 5 billion, in the bonds issued by the India Infrastructure Finance Company (UK) Limited. As at end-March 2017 the amount invested in such bonds stood at USD 2,100 million.

## **Part-II**

### **Objectives of Reserve Management, Legal Framework, Risk Management Practices, Transparency and Disclosure**

#### **II.1. Objectives of Reserve Management**

The guiding objectives of foreign exchange reserve management in India are similar to those of many central banks in the world. The demands placed on the foreign exchange reserves may vary widely depending upon a variety of factors including the exchange rate regime adopted by the country, the extent of openness of the economy, the size of the external sector in a country's GDP and the nature of markets operating in the country. While safety and liquidity constitute the twin objectives of reserve management in India, return optimisation is kept in view within this framework.

#### **II.2. Legal Framework and Policies**

The Reserve Bank of India Act, 1934 provides the overarching legal framework for deployment of reserves in different foreign currency assets and gold within the broad parameters of currencies, instruments, issuers and counterparties. The essential legal framework for reserve management is provided in sub-sections 17 (6A), 17(12), 17(12A), 17(13) and 33 (6) of the above Act. In brief, the law broadly permits the following investment categories:

- a) deposits with other central banks and the Bank for International Settlements (BIS);
- b) deposits with overseas branches of commercial banks;

- c) debt instruments representing sovereign/sovereign-guaranteed liability with residual maturity for the debt papers not exceeding 10 years;
- d) other instruments / institutions as approved by the Central Board of the Reserve Bank in accordance with the provisions of the Act; and
- e) dealing in certain types of derivatives.

### **II.3 Risk Management**

The broad strategy for reserve management including currency composition and investment policy is decided in consultation with the Government of India. The risk management functions are aimed at ensuring development of sound governance structure in line with the best international practices, improved accountability, a culture of risk awareness across all operations, efficient allocation of resources and development of in-house skills and expertise. The risks attendant on deployment of reserves, viz., credit risk, market risk, liquidity risk and operational risk and the systems employed to manage these risks are detailed in the following paragraphs.

#### **II.3.1 Credit Risk**

The Reserve Bank is sensitive to the credit risk it faces on the investment of foreign exchange reserves in the international markets. The Reserve Bank's investments in bonds/treasury bills represent debt obligations of highly rated sovereigns, central banks and supranational entities. Further, deposits are placed with central banks, the BIS and overseas branches of commercial banks. RBI has framed requisite guidelines for selection of issuers/ counterparties with a view to enhancing the safety and liquidity aspects of the reserves. The Reserve Bank continues to apply stringent criteria for selection of counterparties. Credit exposure vis-à-vis sanctioned limit in respect of approved counterparties is monitored continuously. Developments regarding counterparties are constantly under watch. The basic objective of such an on-going exercise is to assess whether any counterparty's credit quality is under potential threat.

#### **II.3.2 Market Risk**

Market risk for a multi-currency portfolio represents the potential change in valuations that result from movements in financial market prices, for example, changes in interest rates, foreign exchange rates, equity prices and commodity prices. The major sources of market risk for central banks are currency risk, interest rate risk and movement in gold prices. Gains/losses on valuation of FCA and gold due to movements in the exchange rates and/or price of gold are booked under a balance sheet head named the Currency and Gold Revaluation Account (CGRA). The balances in CGRA provide a buffer against exchange rate/gold price fluctuations which in recent times have shown sharp volatility. Foreign dated securities are valued at market prices prevailing on the last business day of each month and the appreciation/depreciation arising therefrom is

transferred to the Investment Revaluation Account (IRA). The balance in IRA is meant to provide cushion against changes in the security prices over the holding period.

### **II.3.2.1 Currency Risk**

Currency risk arises due to movements in the exchange rates. Decisions are taken on the long-term exposure to different currencies, depending on the likely movements in exchange rates and other considerations in the medium and long-term (e.g., maintenance of major portion of reserves in the intervention currency, benefit of diversification, etc.). The decision making procedure is supported by reviews of the strategy on a regular basis.

### **II.3.2.2 Interest Rate Risk**

The crucial aspect of the management of interest rate risk is to protect the value of the investments as much as possible from adverse impact of interest rate movements. The interest rate sensitivity of the portfolio is identified in terms of the benchmark duration and the permitted deviation from the benchmark.

### **II.3.2.3 Liquidity Risk**

Liquidity risk involves the risk of not being able to sell an instrument or close a position when required without facing significant costs. The reserves need to have a high level of liquidity at all times in order to be able to meet any unforeseen and emergency needs. Any adverse development has to be met with reserves and, hence, the need for a highly liquid portfolio is a necessary constraint in the investment strategy. The choice of instruments determines the liquidity of the portfolio. For example, in some markets, treasury securities could be liquidated in large volumes without much distortion of the price in the market and, thus, can be considered as liquid. Except fixed deposits with the BIS, overseas branches of commercial banks and central banks and securities issued by supranationals, almost all other types of investments are highly liquid instruments which could be converted into cash at short notice. The Reserve Bank closely monitors the portion of the reserves, which could be converted into cash at a very short notice, to meet any unforeseen/ emergency needs.

### **II.3.3 Operational Risk and Control System**

In tune with the global trend, close attention is paid to strengthen the operational risk control arrangements. Key operational procedures are documented. Internally, there is total separation of the front office and the back office functions and the internal control systems ensure several checks at the stages of deal capture, deal processing and settlement. The deal processing and settlement system, including generation of payment instructions, is also subject to internal control guidelines based on the principle of one-point data entry. There is a system of concurrent audit for monitoring compliance in respect of all the internal control guidelines. Further,

reconciliation of accounts is done regularly. In addition to internal annual inspection, the accounts are audited by external statutory auditors. There is a comprehensive reporting mechanism covering significant areas of activity/ operations relating to reserve management. These are provided to the senior management periodically, viz., on daily, weekly, monthly, quarterly, half-yearly and yearly intervals, depending on the type and sensitivity of information. The Reserve Bank uses SWIFT as the messaging platform to settle its trades and send financial messages to its counterparties, banks with whom nostro accounts are maintained, custodians of securities and other business partners. All international best practices with respect to usage of SWIFT are ensured. Further, additional security measures in this regard have also been put in place.

#### **II.4 Transparency and Disclosures**

The Reserve Bank has been making available in the public domain data relating to foreign exchange reserves, its operations in foreign exchange market, position of the country's external assets and liabilities and earnings from deployment of foreign currency assets and gold through periodic press releases of its Weekly Statistical Supplements, Monthly Bulletins, Annual Reports, etc. The Reserve Bank's approach with regard to transparency and disclosure closely follows international best practices in this regard. The Reserve Bank is among the 61 central banks across the globe which has adopted the Special Data Dissemination Standards (SDDS) template of the IMF for publication of the detailed data on foreign exchange reserves. Such data are made available on monthly basis on the Reserve Bank's website.