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# Financial Institutions and Markets

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## Call Money Market

# Call Money Market

- **Call money market** is that part of the national money market where the day-to-day surplus funds, mostly of banks, are traded in.
- Mostly the call money market helps the banks to borrow the money without collateral from other banks to maintain the cash reserve ratio (CRR) with RBI.
- The loans made in this market are of a short-term nature, their maturity varying between one day to a fortnight.

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# Call Money Market in US

- **Federal Funds Market**
  - A federal funds transaction is defined "as any transaction between banks involving the purchase (borrowing) or sale (lending) of banks' deposits at Federal Reserve Banks for one business day at a specified rate of interest." The purpose of transactions in this market is to adjust the reserves of banks; and the supply of funds to the market arises out of the reserves of banks with the central banking system.
- **Call Money Market Proper**
  - The call loan market in the US performs a different and specific function. The call loans "represent short-term loans by banks to security brokers and dealers for the purpose of financing their customers' purchases of common stock

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# Call Money Market in UK

- **Clearing Banks' Loans to Discount Houses**
  - Commercial banks give loans to discount houses on the call basis. These loans are normally repayable when demanded. They are mostly secured loans, being secured against treasury bills or other bills of exchange as collateral.
- **Inter-bank Call Market**
  - This is a market for lendings and borrowings between Scottish banks, merchant banks, British overseas banks, and foreign banks-all outside the clearing banks which are the major commercial banks in the UK.

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# Call Money Market in India

- That part of national money market where the day-to-day surplus funds, mostly of banks are traded in
- Banks borrow from other banks in order to meet a sudden demand for funds, large payments, large remittances, and to maintain cash or liquidity with the RBI.

 Major Participants in the call money market:

- Scheduled Commercial Banks
- Non-Scheduled Commercial Banks
- Foreign Banks
- State, District and Urban Co-operative Banks
- Discount and Finance House of India(DFHI)
- Securities Trading Corporation of India(STCI)

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# Call Money Market in India Cont…

- As on June 13, 2014 the standalone and bank primary dealers, which are existing in India are as follows: ICICI Securities Primary Dealership Limited, Morgan Stanley India Primary Dealer Pvt. Ltd., Nomura Fixed Income Securities Pvt. Ltd., SBI DFHI Ltd., STCI Primary Dealer Limited, Goldman Sachs (India) Capital Markets Pvt. Ltd., Bank of America, Bank Of Baroda, Canara Bank, Citibank N.A, Corporation Bank, HDFC Bank Ltd., Hongkong and Shanghai Banking Corpn. Ltd.(HSBC), J P Morgan Chase Bank N.A, Mumbai Branch, Kotak Mahindra Bank Ltd., Standard Chartered Bank, Axis Bank Ltd., IDBI Bank Limited, and Deutsche Bank AG.
- Non-bank institutions (other than PDs) are not permitted in the call/notice money market.

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# Call Money Market in India Cont…

- All the money market transactions should be reported on the electronic platform called the Negotiated Dealing System (NDS). These transactions take place in the OTC market and are required to be reported on FIMMDA platform within 15 minutes of the trade for dissemination of information.

| *Participants* | *Borrowing* | *Lending* |
|---|---|---|
| Scheduled commercial banks | On a fortnightly average basis, borrowing outstanding should not exceed 100 percent of capital funds (i.e. sum of Tier I and Tier II capital) of latest audited balance sheet. However, banks are allowed to borrow a maximum of 125 percent of their capital funds on any day, during a fortnight. | On a fortnightly average basis, lending outstanding should not exceed 25 percent of their capital funds. However, banks are allowed to lend a maximum of 50 percent of their capital funds on any day, during a fortnight. |
| Co-operative banks | Outstanding borrowings of State Co-operative banks/district central co-operative banks/urban co-operative banks in call/notice money market, on a daily basis should not exceed 2.0 percent of their aggregate deposits as at end March of the previous financial year. | No limit. |
| PDs | PDs are allowed to borrow, on average in a reporting fortnight, up to 225 percent of their net owned funds (NOF) as at end-March of the previous financial year. | PDs are allowed to lend in call/notice money market, on average in a reporting fortnight, up to 25 percent of their NOF. |

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# Call Money Market in India Cont…

- The seasonal nature of the call money market would be reflected in two indicators: (i) a decline in money at call and short notice should be greater in the slack season than in the busy season of a given year; (ii) an increase in money at call and short notice should be greater in the busy season than in the slack season.
- The need for call money borrowings is the highest around March every year which may be due to withdrawals of deposits in March to meet year-end tax payments and withdrawals of funds by financial institutions to meet their statutory obligations.

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# Variations in Demand and Supply of Call Loans

- The supply of call loans
  - Increase in deposits
- Demand for Call Loans
  - Buoyancy of the stock market
  - Increase in the demand for loans for industrial and commercial purposes
  - Liquidation of government securities
  - Subscriptions to government loans
  - Seasonal demand
  - RBI policy measure

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## Call Money Market-II

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# Call Rates

- The rate of interest paid on call loans is known as the call rate. The call rate is highly variable from day to day, and often from hour to hour. It is very sensitive to changes in demand for and supply of call loans.
- The call rate has been freely determined by the market forces since 1989.
- Mostly the call rate in India is defined as **interbank call rate**.

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# Reasons for Call Rate Volatility

- Requirement for CRR needs create excess demand for liquidity in call money market
- Over extended credit position of Banks
- Occasional market disruptions
- Heavy withdrawal by Institutional investors
- Liquidity crisis in money market
- Sluggish demand in bank deposit with heavy pressure for non-food credit in the banking sector crating asset liability mismatch
- Causality in foreign exchange market and call money market
- Structural deficiencies in the Banking Sector

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# Measures to Reduce Call Rate Volatility

- Intervention by the DFHI, has increased
- More funds have been channelized by the RBI through the DFHI
- Funds are channelized by certain financial institutions with surplus funds
- Penalties on CRR shortfalls are softened
- Liquidity adjustment facility was introduced from June 2000 onwards to manage short-term liquidity under different financial market conditions and to maintain stability in the money market
- Interbank liabilities were freed from reserve requirements in 1997.

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# Mumbai Inter-Bank Bid Rate (MIBID) and Mumbai Inter-Bank Offer Rate (MIBOR)

- It is the interest rate at which banks can borrow funds, in marketable size, from other banks in the Indian interbank market.
- It is calculated daily by the National Stock Exchange of India (NSE).
- It is calculated on the basis of data collected from the panel of 30 banks and primary dealers. The panel has a mix of public sector banks including SBI, CBI; private sector banks including Axis Bank Ltd, HDFC Bank Ltd; foreign banks including Citibank NA and Deutsche Bank; and primary dealers including ICICI Securities Ltd and PNB Gilts Ltd.

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# London Inter-Bank Offer Rate (LIBOR)

- It is an interest rate at which banks can borrow funds in marketable size from other banks in the London interbank market.
- The LIBOR is fixed on a daily basis by the British Bankers' Association (BBA).
- LIBOR formally measures the cost of this inter-bank lending and setting out the average rate banks pay to borrow from one another.

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# Term Money Market and Repo Market

- In term money market where the tenor of the transactions is from 15 days to one year.
- Repo or ready forward contact is an instrument for borrowing funds by selling securities with an agreement to repurchase the said securities on a mutually agreed future date at an agreed price which includes interest for the funds borrowed.
- The reverse of the repo transaction is called ‘reverse repo’ which is lending of funds against buying of securities with an agreement to resell the said securities on a mutually agreed future date at an agreed price which includes interest for the funds lent.

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# Collateralised Borrowing and Lending Obligation (CBLO)

- CBLO is another money market instrument operated by the Clearing Corporation of India Ltd. (CCIL), for the benefit of the entities who have either no access to the interbank call money market or have restricted access in terms of ceiling on call borrowing and lending transactions.
- It was operationalised with effect from January 20, 2003
- CBLO is a discounted instrument available in electronic book entry form for the maturity period ranging from one day to ninety days (up to one year as per RBI guidelines).
- In order to enable the market participants to borrow and lend funds, CCIL provides the Dealing System through Indian Financial Network (INFINET), a closed user group to the Members of the Negotiated Dealing System (NDS)

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# Collateralised Borrowing and Lending Obligation (CBLO) Cont…

- It is an obligation by the borrower to return the money borrowed, at a specified future date
- Provides authority to the lender to receive money lent, at a specified future date with an option/privilege to transfer the authority to another person for value received
- It is underlying charge on securities held in custody (with CCIL) for the amount borrowed/lent.

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## Treasury Bills Market

# Nature of Treasury Bill

- A Particular type of Finance Bill or Promissory note put out by the Govt. of the country to meet the needs of supplementary short-term Finance
- Treasury bills are zero coupon securities and pay no interest.
- Issued at discount and redeemed at par

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# Characteristics

- High Liquidity Money Market Instrument
- Absence of Risk of Default
- Ready availability on Tap
- Assured Yield
- Low transaction Cost
- Eligibility for Inclusion in SLR
- Negligible Capital Depreciation

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# Types of Treasury Bills

- **Ordinary TBs**: Issued to the public and other financial institutions for meeting the short-term financial requirements of the Central Government
- **Ad-hoc TBs**: Issued in favour of the RBI only. They are not sold through tender or auction. They are purchased by the RBI and the RBI is authorised to issue currency notes against them. They aren't marketable in India.
- **91-Day, 182-Day and 364-Day Treasury Bills**
- **14-Day Treasury Bills**
- It is sold only to state governments, foreign central banks, and other specified bodies in order to provide them with an alternate arrangement in place of 91-day tap TBs for investment of their temporary cash surpluses

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# Investors and Sale of T-bills

- Banks, Primary Dealers, State Governments, Provident Funds, Financial Institutions, Insurance Companies, NBFCs, FIIs (as per prescribed norms), NRIs & OCBs can invest in T-Bills
- Treasury bills are available for a minimum amount of Rs.25,000 and in multiples of Rs. 25,000
- T- bills are sold through auction

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# Auction Process

- Auction is a process of calling of bids with an objective of arriving at the market price
- A **yield based auction** is generally conducted when a new Government security is issued.
- Investors bid in yield terms up to two decimal places (for example, 7.49 per cent, 8.21 per cent, etc.).
- Bids are arranged in ascending order and the cut-off yield is arrived at the yield corresponding to the notified amount of the auction.
- The cut-off yield is taken as the coupon rate for the security.
- Successful bidders are those who have bid at or below the cut-off yield. Bids which are higher than the cut-off yield are rejected.

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# Auction Process Cont…

- **A price based auction** is conducted when Government of India re-issues securities issued earlier.
- Bidders quote in terms of price per Rs.100 of face value of the security (e.g., Rs.102.00, Rs.101.00, Rs.100.00, Rs.99.00, etc., per Rs.100/-).
- Bids are arranged in descending order and the successful bidders are those who have bid at or above the cut-off price.
- Bids which are below the cut-off price are rejected.

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# Uniform Price Vs. Multiple Price based Auction

- In a **Uniform Price auction**, all the successful bidders are required to pay for the allotted quantity of securities at the same rate, i.e., at the auction cut-off rate, irrespective of the rate quoted by them
- **Multiple Price auction**, the successful bidders are required to pay for the allotted quantity of securities at the respective price / yield at which they have bid

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# Competitive Vs. Non-Competitive Bidding

- **Competitive bids**
  - Made by well informed investors such as banks, financial institutions, primary dealers, mutual funds, and insurance companies.
  - The minimum bid amount is Rs.10, 000 and in multiples of Rs.10, 000 thereafter.
  - Multiple bidding is also allowed, i.e., an investor may put in several bids at various price/ yield levels.
- **Non-competitive bidding**
  - Open to individuals, HUFs, RRBs, co-operative banks, firms, companies, corporate bodies, institutions, provident funds, and trusts.
  - Under the scheme, eligible investors apply for a certain amount of securities in an auction without mentioning a specific price / yield. Such bidders are allotted securities at the weighted average price / yield of the auction

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# Trading Platform

- T-bills auctions are held on ***the Negotiated Dealing System (NDS)***
- The 91 day T-bills are auctioned on every Wednesday.
- The Treasury bills of 182 days and 364 days tenure are auctioned on alternate Wednesdays.

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# Treasury Bill Rate

- Treasury bill rate is the rate of interest at which treasury bills are sold by the RBI.
- The effective return on treasury bills is the discount at which they are sold, and is based on the difference between the price at which they are sold and their redemption value.
- Yield of the T-bill

$$\text{Yield} = \frac{100 - P}{P} \times \frac{365}{D} \times 100$$

where $P$ = purchase price, $D$ = days to maturity

Day Count: For treasury bills, $D$ = (actual number of days to maturity/365)

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# T-Bill Yield Calculation Example:

**Example** Assuming that the price of a 91-day treasury bill at issue is ₹98.20, the yield on the same would be as follows:

$$\text{Yield} = \frac{100 - 98.20}{98.20} \times \frac{365}{91} \times 100 = 7.3521\%$$

After say, 41 days, if the same Treasury bill is trading at a price of ₹99, the yield would then be

$$\text{Yield} = \frac{100 - 99}{99} \times \frac{365}{50} \times 100 = 7.3737\%$$

Note that the remaining maturity of the treasury bill is 50 days (91 – 41).

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# Other Short-term Central Government Securities

- **Cash Management Bills (CMBs)**
  - Issued to meet the temporary mismatches in the cash flow of the Government
  - maturities less than 91 days
  - issued at a discount and redeemed at face value at maturity
  - tenure, notified amount and date of issue of the CMBs depends upon the temporary cash requirement of the Government
  - The settlement of the auction is on T+1 basis.
- **Ways and Means Advances (WMA)**
  - Issued to help the states to tide over temporary mismatches in the cash flow of their receipts and payments
  - Normal WMA are clean advances, special WMA are secured advances provided against the pledge of Government of India dated securities

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## Miscellaneous

## Short – Term Financial Market-I

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# What is Commercial Paper?

- CP is an unsecured money market instrument issued in the form of a promissory note by a corporation with high credit ratings to finance its short-term needs.
- CPS can be issued in a wide range of denominations, can be either discounted or interest-bearing, and usually have a limited or nonexistent secondary market.

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# Characteristics of CPs

- CPs can be **issued** on discount to face value basis or on a fixed interest basis.

 CPs are **unsecured**, **negotiable** by endorsement and normally have a buy-back facility

 CPs as a **source of short-term debt** regarded as **highly safe, simple, flexible,** and **quality liquid** instrument

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# CPs in India

- It was introduced in India in 1990 with a view to enabling highly rated corporate borrowers to diversify their sources of short-term borrowings and to provide an additional instrument to investors. Subsequently, primary dealers and all-India financial institutions were also permitted to issue CP to enable them to meet their short-term funding requirements for their operations
- Corporates, primary dealers (PDs) and the All-India Financial Institutions (FIs) are eligible to issue CP.

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# CPs in India

- The tangible net worth of the company, as per the latest audited balance sheet, is not less than Rs.4 crore
- CP can be issued in denominations of Rs.5 lakh or multiples thereof.
- The fund based working capital of the company should not be less than 4 crore
- Every issue of CP, including renewal, should be treated as a fresh issue.
- There is no lock in period for CPs

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# CPs in India

- CP can be issued for maturities between a minimum of 7 days and a maximum up to one year from the date of issue *( since October 2004)*.

- Individuals, banking companies, other corporate bodies (registered or incorporated in India) and unincorporated bodies, Non-Resident Indians (NRIs) and Foreign Institutional Investors (FIIs) etc. can invest in CPs.
- The total amount of CP proposed to be issued should be raised within a period of two weeks from the date on which the issuer opens the issue for subscription.

- Mandatory credit rating for issuance of Commercial Paper. The minimum credit rating shall be P-2 of CRISIL and A2 for ICRA.

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# CPs in India

- Only a scheduled bank can act as an IPA for issuance of CP.
- CPs are actively traded in the OTC market. Such transactions, however, are to be reported on the FIMMDA reporting platform within 15 minutes of the trade for dissemination of trade information to market participation thereby ensuring market transparency.
- When the CP is held in physical form, the holder of the CP shall present the instrument for payment to the issuer through the IPA.
- When the CP is held in demat form, the holder of the CP will have to get it redeemed through the depository and receive payment from the IPA.

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# Role and responsibilities of the Issuer

- Every issuer must appoint an IPA for issuance of CP.
- The issuer should disclose to the potential investors its financial position as per the standard market practice.
- After the exchange of deal confirmation between the investor and the issuer, issuing company shall issue physical certificates to the investor or arrange for crediting the CP to the investor's account with a depository.

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# Role and responsibilities of IPA

- IPA would ensure that issuer has the minimum credit rating as stipulated by the RBI and amount mobilised through issuance of CP is within the quantum indicated by CRA for the specified rating or as approved by its Board of Directors, whichever is lower.
- IPA has to verify all the documents submitted by the issuer viz., copy of board resolution, signatures of authorised executants (when CP in physical form) and issue a certificate that documents are in order. It should also certify that it has a valid agreement with the issuer
- Certified copies of original documents verified by the IPA should be held in the custody of IPA.

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# Role and responsibilities of Credit Rating Agency

- Code of Conduct prescribed by the SEBI for CRAs for undertaking rating of capital market instruments shall be applicable to them (CRAs) for rating CP.
- Further, the credit rating agencies have the discretion to determine the validity period of the rating depending upon its perception about the strength of the issuer. Accordingly, CRA shall at the time of rating, clearly indicate the date when the rating is due for review.
- While the CRAs can decide the validity period of credit rating, CRAs would have to closely monitor the rating assigned to issuers vis-a-vis their track record at regular intervals and would be required to make its revision in the ratings public through its publications and website

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# Factors affecting CP Market Development

- Credit quality of CP issuer
- Market liquidity
- Cost of other alternative assets
- Financial market infrastructure
- Working capital limit

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## Short – Term Financial Market-II

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# Certificate of Deposit (CD)

- CDs represent bank deposit accounts which are transferable from one party to another.
- Marketable nor negotiable short-term instruments in bearer from and are known as Negotiable Certificate of Deposit (NCDs)
- Liquidity and marketability as its hallmark
- CDs are issued by banks for attracting large corporate deposits rather mobilising individual savings
- The introduction of CDs in an economy has usually preceded the introduction of CPs

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# CDs in India

- In initial years (1980-1987) feasibility of CDs in India is subject to various constraints like lack of secondary money market, administered interest rates, lack of proper regulatory system

- Introduction of CDs in 1989 : recommendation of RBI working group on money market (Vaghul working group, 1987)

- Broad objective is to further widen the range of money market instruments and to give investors greater flexibility in the deployment of short term surplus funds

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# CDs in India Cont…

- CDs can be issued by (i) scheduled commercial banks {excluding Regional Rural Banks and Local Area Banks}; and select All-India Financial Institutions (FIs)
- Banks have the freedom to issue CDs depending on their funding requirements.
- Minimum amount of a CD should be Rs.1 lakh, i.e., the minimum deposit that could be accepted from a single subscriber should not be less than Rs.1 lakh, and in multiples of Rs. 1 lakh thereafter.
- CDs can be issued to individuals, corporations, companies (including banks and PDs), trusts, funds, associations, etc. Non-Resident Indians (NRIs) may also subscribe to CDs
- The maturity period of CDs issued by banks should not be less than 7 days and not more than one year, from the date of issue.
- The FIs can issue CDs for a period not less than 1 year and not exceeding 3 years from the date of issue.
- CDs may be issued at a discount on face value.

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# CDs in India Cont…

- All CDs were subject to cash reserve ratio (CRR) and statutory liquidity ratio (SLR) requirement , on the issue price of the CDs.

 Banks / FIs cannot grant loans against CDs and cannot buy-back their own CDs before maturity.

 CDs are freely transferable by endorsement and delivery

 RBI Guidelines for Issue of CDs with respect to The maturity period, Minimum Size of Issue and Denominations modified from time-to-time

 Mutual funds are allowed to invest in CDs with cretin limit stipulated by Securities Exchange Board of India (SEBI)

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# Commercial Bills

- It is used for financing a transaction in goods that takes some time to complete. It shows the liability to make the payment on a fixed date when goods are bought on credit.
- It is an asset which is "shiftable", and which carries a low degree of risk of loss
- Bills of exchange are known as Bankers' Acceptances in the US
- There is no single fixed maturity period for bills in general

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# Classification of Bills

- **Demand bill**
  - A bill in which no time for payment is specified
- **Usance or time bill**
  - It is payable at a specified later date
- **Inland bill**
  - Must (a) be drawn or made in India, and must be payable in India, or (b) be drawn upon any person resident in India
- **Foreign bill**
  - Drawn outside India and may be payable in and by a party outside India, or may be payable in India or drawn on a party resident in India, or (b) drawn in India and made payable outside India

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# Discount Market

- Banks borrow funds temporarily at the discount window of the Central Bank; they are permitted to borrow or are given the privilege of doing so from the Central Bank against certain types of eligible paper (collateral), such as the commercial bill or treasury bill, which the Central Bank stands ready to discount (to rediscount, strictly speaking) for the purpose of financial accommodation to banks.

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# Discount and Finance House of India

- It should be the sole depository of the surplus liquid funds of the banking system as well as the non-banking financial institutions.
- It should use surplus funds to even out the imbalances in liquidity in the banking system subject to the RBI guidelines.
- It should create ready market for commercial bills, treasury bills, and government/government-guaranteed securities by being ready to purchase from and sell to the banking system such securities.

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# Discount and Finance House of India Cont…

- Discount and Finance House of India Ltd. was set up by the RBI with the objective of deepening and activating the money market
- It became operative with effect from 25 April 1988. It was a joint stock company in form and is jointly owned by the RBI, public sector banks, and all-India financial institutions which have contributed its paid-up capital of Rs 200 crore (the authorised share capital of Rs 250 crore) in the proportion of 5:3:2
- Further in the year 2004 DFHI has been merged with SBI Guilt Ltd, a subsidiary of SBI and a new company has been formed which is known as SBI DFHI Ltd.
- Now it has been considered as a primary dealer and it has been created by RBI to support the book building process in Primary Auctions of Government securities and provide necessary depth and liquidity to the Secondary market in Government Securities.

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# Institutions Suppling Guarantees

- Commercial Banks
- Insurance Companies
- Deposit Insurance and Credit Guarantee Corporation (DICGC)
- Export Credit and Guarantee Corporation (ECGC)

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