

EXCHANGE RATES AND FOREX BUSINESS

CH – 1 MODULE A PART 5 BFM By Ashish Jain

7. Market Risk

Definition: Potential losses due to adverse movements in **market variables** (exchange rates, interest rates, equity prices). Inability to exit positions quickly can amplify losses.

7.1 Interest Rate Risk

- Changes in **market interest rates** can erode the value of rate-sensitive assets or liabilities (e.g., bonds).

7.2 Equity Price Risk

- **Volatility** in stock indices or individual share prices can reduce the fair value of equities held.

7.3 Currency Risk (Exchange Rate Risk)

- Also mentioned above. A decline in currency value reduces returns on foreign-currency assets.

8. Legal Risk

Definition: Risk arising from **non-enforceability** of a contract against a counterparty, **documentation errors**, ambiguous clauses, or **international legal variations**.

Example: A contract with a foreign entity might become unenforceable in their local court, or certain **onerous clauses** may be invalid under that jurisdiction's laws.

9. Systemic Risk 🌐

Definition: The **contagion** possibility where the **failure of a major bank** cascades into broader **financial crises**, affecting multiple institutions.

10. Country Risk 🌐

Definition: The counterparty's inability to perform contractual obligations due to **local government regulations, political unrest, or economic instability** in its country.





Example: If **sanctions** or sudden policy changes prevent a foreign company from remitting funds to Indian banks, country risk materializes.

11. Sovereign Risk ☐

Definition: A **subset** of country risk, where **state-owned entities** claim **sovereign immunity** from legal recourse or debt repayment. Some nations' laws uphold their sovereign status in a way that renders them effectively **immune to lawsuits**.

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SUMMARY TABLE

Risk Type	Key Aspect	Possible Impact
Operational Risk 	Human/system errors, poor controls	Losses from internal failures
Exchange Risk 	Currency fluctuations, mismatches in FX assets/liabilities	Loss in returns due to adverse exchange movements
Credit Risk 	Counterparty default before/at maturity	Loss if payment is not received as per agreement
Settlement Risk 	Timing differences in FX settlements across different time zones	One party delivers currency, but the other fails, leading to partial settlement
Liquidity Risk 	Inability to meet short-term funding needs	Forced borrowing at high rates or asset firesales
Gap/Interest Rate Risk 	Mismatched forward positions, changes in interest rate differentials	Negative impact on forward differentials, cash flows
Market Risk 	Adverse movements in exchange rates, interest rates, equities	Losses in trading or investment portfolios
Legal Risk 	Contract enforcement issues, documentation errors	Inability to recover claims due to legal complications
Systemic Risk 	Contagion effect if a major institution fails	Potential wide-scale financial crisis
Country Risk 	Political/economic instability, regulatory barriers	Counterparty prevented from honoring obligations
Sovereign Risk 	Sovereign entities claim legal immunity	No legal recourse for recoveries if a state entity defaults

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MANAGEMENT CONTROL IN DEALING ROOM OPERATIONS

A **comprehensive management control** over dealing room operations involves:

1. **Assessing risk exposures** (outlined previously)
2. **Implementing strategies** to manage these risks

Since most banks regard **foreign exchange (FX) dealing rooms** as **profit centers**, having a **robust risk management policy** helps them operate within **permitted loss limits**. Attaining profits requires:

- **Adequate risk appetite**
- A proper **risk–reward trade-off**

Note: The **details on these risks** and their **management** are covered in the **Risk Management** unit.

SPECIALIZED NATURE OF FOREX DEALING OPERATIONS

- FX dealing is a **highly specialized function**, requiring **well-trained personnel**.
- Typically, a dealing room has:
 - **Dealers** (Front Office)
 - **Back-Office Staff** (settlements, confirmations, and account entries)

The **Back Office** follows up on deals executed by dealers, ensuring **proper settlement**.

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Effective controls are critical since opportunities for **manipulation** (e.g., exchange rates, mismatches, “washing names”) can exist.

Clear Functional Separation

A key principle in dealing room operations is to **separate**:

1. **Dealing/Trading** (Front Office)
2. **Back-Office Accounting** (Processing & Control)
3. **Reconciliation** (Ensuring correct account balances)

IMPORTANCE FOR BANKS













- **Exchange profits** (from both **merchant transactions** and **trading operations**) contribute significantly to a bank's **bottom line**.
- Large banks (especially in major markets) invest heavily in:
 - **Multiple dealers**
 - **Sophisticated communication & IT systems**
 - **Specialized desks** (e.g., derivatives, currency futures, etc.) to **maximize profits**.

In **India**, many banks also maintain **large dealing rooms** catering to **various products** permitted by the **RBI** (Reserve Bank of India).

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RISK CONTAINMENT MEASURES

Measure	Explanation
1. Dealer Limits  	Each dealer must know their assigned limits (exposure, stop-loss, etc.) and operate strictly within them.
2. Counterparty Limits  	All deals with counterparties should stay within pre-approved credit and exposure limits.
3. Overall Position Control 	By day-end , the bank's total position must be within NOOPL1, AGL2, IGL3, etc.
4. Mismatch Monitoring 	Keep a close watch on maturity mismatches (e.g., forward vs. spot dates) and open currency positions .
5. Profit/Loss Evaluation  	Foreign exchange P&L must be regularly evaluated (periodically or more frequently).
6. Account Reconciliation  	- RBI accounts, Nostro and Vostro balances should be reconciled at least monthly . - Adjust discrepancies promptly.
7. Mirror Account Checks  	Regularly review mirror accounts —confirm with Nostro correspondents and provide Vostro confirmations to banks maintaining INR accounts.

DERIVATIVE PRODUCTS

What is a Derivative?

A **derivative** is a **financial instrument** whose **value** is derived from an **underlying asset** (e.g., commodity, equity, bond, or foreign currency position). Common derivatives include:

- **Futures**
- **Forward Contracts**

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- Options
- Swaps

These instruments serve **two distinct objectives**:

1. **Speculation** – taking a position **expecting a profit**.
2. **Hedging** – **reducing risks** associated with corporate cash flows or future exposures.

FOREIGN CURRENCY FUTURES

A **Foreign Currency Futures Contract** is an **exchange-traded** alternative to a forward contract.

It requires **future delivery** of a **standard amount** of foreign exchange at a **fixed time, place, and price**. Like other **futures contracts** (on commodities, metals, interest-bearing deposits, etc.), currency futures:

- Trade on **organized exchanges** (e.g., **Chicago Mercantile Exchange – CME**).
- Have prices linked to the **current spot/cash market** plus **forward volatility**.

Futures can be settled by **physical delivery** or **net settlement**.

Common practices include **open interest** and **offsetting** positions to manage exposure.

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Futures Contracts – Key Characteristics

1. Standardized Contract

- Traded only **on the exchange** with **fixed specifications** (quantity, maturity, lot size, etc.).

2. Price Discovery

- Based on **open outcry** or **electronic trading platforms**, driven by **demand and supply**.

3. Underlying Assets

- Sellers must identify the **quality** if it's a commodity.

4. Exchange-Traded

- Details of each element (USD, gold, equity index, etc.) are clearly defined.

5. Settlement Price

- Established via **pit trading** or **electronic** systems.

6. Clearing House Guarantee

- The **clearing house** becomes the **buyer to every seller** and **seller to every buyer**, ensuring performance.

7. Margin Requirements

- **Clearing houses** manage credit risk by **collecting margins** (initial and mark-to-market).

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FORWARD CONTRACTS ↔

A **forward contract** is a **negotiated agreement** between **two parties** to **fix an exchange rate** for foreign currency **in advance**. Unlike standardized futures, **forward contracts** are:

- **Tailor-made** for specific needs.
- **Over-the-counter (OTC)**, not exchange-traded.

They're typically used by **exporters** or **importers** to **hedge** future receivables/payables.

Example: An **Exporter** in India signs a **supply contract** on **1st November** with **90-day credit terms**, shipping goods on **5th November**. Payment of **USD 1,000,000** is due by **3rd February**. To avoid the **exchange fluctuation risk** on USD/INR, the exporter can enter a **forward contract** with their bank to lock in a **forward rate** for the USD receivable.

Forward Contracts – Key Characteristics

1. Agreement with a Bank

- Fixes **price** for a specified amount, **deliverable** on a future date.

2. Delivery Options

- Either **fixed date** or **option-based** (within a range of dates).

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3. Tenure

- Typically up to **one year** (can be longer for **LTFX** if underlying exposure extends).

4. Underlying Verification

- Requires **documentary evidence**.
- Maturity of the hedge **must not exceed** the underlying.

5. Credit Limits & Due Diligence

- Parties must have **credit lines** and pass **KYC/risk checks**.

6. Utilization & Maturity

- Contracts must be **utilized** or **canceled** on/before **maturity**.
- If **canceled**, **profit/loss** is settled accordingly.

7. After-Maturity Cancellations

- If canceled **after** maturity, the **bank recovers losses** but **no profit** is passed to the customer.

FORWARD vs. FUTURES CONTRACTS


Factor	Forward Contracts (OTC)	Futures Contracts (Exchange-Traded)
Contract Size	Flexible (any amount)	Standardized (set lot sizes)
Tenor (Maturity)	Up to 1 year (can extend)	Typically up to 1 year
Contract Parties	Customer & Bank directly	Customer & Exchange through a clearing house
Price Discovery	Bid/Ask quotes between parties	Open outcry or electronic trading

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Collateral/Margins	No explicit margin (credit line used)	Initial & Mark-to-market margins required
Settlement Process	Delivered/utilized/canceled on due date	Mostly offsetting or occasionally physical delivery
Market Hours	Flexible, 24 hours (as per parties' convenience)	Restricted to exchange operating hours
Counterparty	Direct contact (bank-customer)	Anonymous (through exchange intermediary)
Commission	No explicit commission, bank earns from spreads	Typically a single commission concept

SUMMARY TABLE

Topic	Key Points
Derivatives Definition	Value derived from underlying assets (currency, commodity, equity, etc.). Covers Futures, Forwards, Options, Swaps .
Futures Contracts 	- Exchange-traded , standardized - Settlement by physical delivery or net offset - Clearing house ensures performance - Margin required to manage risk
Forward Contracts ↔	- OTC (bank-client) - Flexible size , tailor-made - Used by exporters/importers for hedging future inflows/outflows - No formal margin , credit lines apply
Forwards vs. Futures 🤔	- Forwards : customized terms, no standard lot, direct bank-client - Futures : standardized lots, exchange-based, margin requirements

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Indian Context	- Small exporter in Surat uses forward - Large IT firm in
Example IN	Bengaluru might choose futures on NSE

LEARNING SESSIONS

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