

Lecture Title:

Cash Flows: Estimation & Diagramming

Instructor:

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Cash Inflows (Receipts): Estimation or Estimates

- 1. Revenues (from sales or contracts).
- 2. Operating cost reductions (resulting from an alternative).
- 3. Salvage value.
- 4. Construction & facility cost savings.
- 5. Receipt of loan capital.
- 6. Income tax savings.
- 7. Receipts from Stock and Bond sales.



Cash Outflows (Disbursements): Estimation or Estimates

- 1. First cost of assets.
- 2. Engineering design costs.
- 3. Operating costs (Annual & Incremental).
- 4. Periodic maintenance & rebuild costs.
- 5. Loan interest & Principal payments.
- 6. Major expected/unexpected upgrade costs.
- 7. Income taxes.



Background Information about Estimates (Departments/Sections of an Organization)

- 1. Accounting.
- 2. Finance.
- 3. Marketing.
- 4. Sales.
- 5. Engineering Design.
- 6. Manufacturing.
- 7. Production.
- 8. Field services.
- 9. Computer services.
- 10. etc.



General Information

NET CASH FLOW = Receipts - Disbursements = Cash Inflows - Cash Outflows

END OF PERIOD CONVENTION:

All cash flows are assumed to occur and calculated at the end of an Interest period.

Important: End of Period means End of Interest period not End of Calendar year.

CASH FLOW DIAGRAMMING:

- Very important tool when cash flow series is complex.
- A cash flow diagram starts at t = 0 followed by periodic increments/decrements
 or status quo.
- Positive Cash Flow (i.e. Cash Inflow) represented by a Vertical arrow pointing upwards.
- Negative Cash Flow (i.e. Cash Outflow) represented by a Vertical arrow pointing downwards.



Perspective (Nuqta-e-Nazar)

Important: For cash flows, the perspective must be determined prior to placing a sign (+ve or -ve) on each cash flow and diagramming it.

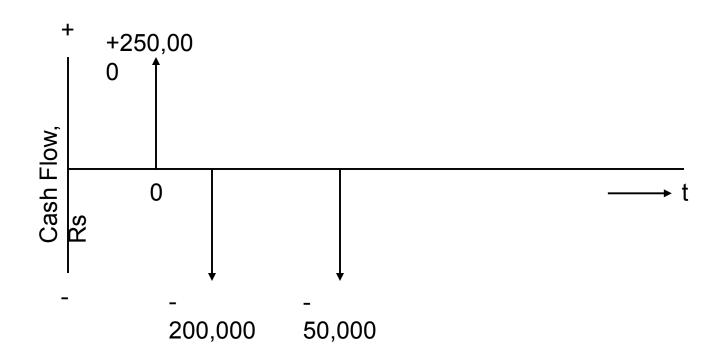
Example Scenario:

Lets suppose YOU borrow Rs.250,000/- for a used car purchase.
YOU use Rs.200,000/- on purchasing the car and use Rs.50,000/- on repainting it.

<u>Perspective</u>	Cash Flow, Rs
Bank	- 250,000
YOU as Borrower	+ 250,000
YOU as Purchaser	- 200,000
YOU as Paint Customer	- 50,000
Used Car dealer	+ 200,000
Painter	+ 50,000



Cash Flow Diagram from "YOU" Perspective



No specific mention of periods/interest rate/Future value





Thank You for listening

