

SFN STRATEGIC FINANCIAL MANAGEMENT

CA – FINAL

INTEREST RATE RISK MANAGEMENT

By GAURAY JAINN

(More than 10 years of Practical Experience in Trading Equity Currency & Commodity Derivatives in U.S. and Indian Markets)

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Interest Rate Risk Management

Study Session 9

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- A forward rate Agreement can be viewed as a forward contract to borrow/lend money at a certain rate at some future date.
- These Contracts settle in cash.
- The long position in an FRA is the party that would borrow the money. If the floating rate at contract expiration is above the rate specified in the forward agreement, the long position in the contract can be viewed as the right to borrow at below market rates & the long will receive a payment.



INTEREST RATE RISK MANAGEMENT

- If reference rate at the expiration date is below the contract rate, the short will receive a cash from the long.
- FRA helps borrower to eliminate interest rate risk associated with borrowing or investing funds.
- Adverse movement in the interest rates will not affect liability of the borrower.

Payment to the long at settlement is:

9.2



FRA ARBITRAGE

Step 1 : Calculation of Fair Forward Rate

6 Months Forward rate 3 months from now



<u>Step 2:</u> Decide from where we should borrow and where should we invest <u>Step 3:</u> Calculation of Arbitrage Profit



FRA Quotation: Suppose 3 × 9 FRA (Quoted by Bank)



LOS 2 : Currency SWAP



LOS 3 : Interest Rate Swap [Two Party]





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INTEREST RATE RISK MANAGEMENT

- Two parties exchange their interest rate obligation.
- The plain vanilla interest rate swap involves trading fixed interest rate payments for floating rate payments.
- The party who wants fixed-rate interest payments agrees to pay fixed-rate interest.
- The Counter party, who receives the fixed payments agrees to pay variable-rate interest/floating rate interest.
- The difference between the fixed rate payment and the floating rate payment is calculated and paid to the appropriate counterparty.
- Net interest is paid by the one who owes it.
- Swaps are zero-sum game. What one party gains, the other party losses.

The Net formulae for the Fixed-Rate payer, based on a 360-day year and a floating rate of LIBOR is:

(Net Fixed Rate Payment)_t = [Swap Fixed Rate – LIBOR t-1] $\left[\frac{\text{No.of Days}}{360}\right]$ [National Principal]

Note:

9.4

- If this number is positive, fixed-rate payer pays a net payment to the floating-rate party.
- If this number is negative, then the fixed-rate payer receives a net flow from the floating rate payer



If a firm borrows at floating rate, it is afraid of interest rate rising, to hedge against the same, it will buy an interest rate cap i.e. Long call at X=Cap rate

- It is a series/portfolio of interest rate Call option on interest rates.
- Each particular call option being called a CAPLET.
- Caps pay when rate rises above the cap rate.



Interest Rate Floor : (Minimum Rate For Investment @ Floating)

If a firm invest at floating rate, it is afraid of interest rate falling, to hedge against the same, it will buy an interest rate Floor i.e. Long put at X=Floor rate

- It is a series/portfolio of Interest rate put Option on interest rate. Such particular put option being called a FLOORLET
- Floor pays when rate falls below the Floor Rate.



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STRATEGIC FINANCIAL MANAGEMENT 9.5



Interest Rate Collar:

- It is a combination of a Cap and a Floor.
- Premium paid on one option would be compensated with the premium received on selling another option.
- If premium paid on caps is equal to the premium received on floor, then it would be called Zero Cost Collar.



- A floating rate borrower may buy a cap [C⁺] & simultaneously sells a floor i.e.[P⁻].Initial outflow will reduce.(C⁺=Long Call & P⁻=Short Put)
- Similarly, a floating rate investor may buy a Floor (P⁺) & simultaneously sell a Cap (C⁻). Initial outflow will reduce.(P⁺=Long Put & C⁻=Short Call)



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