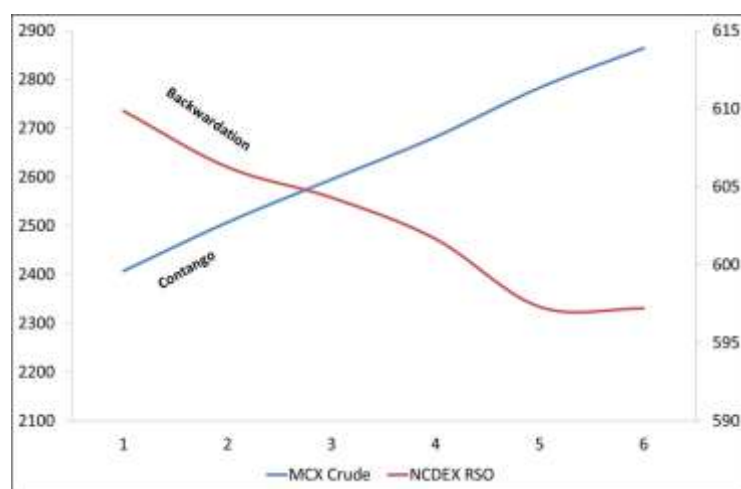


7-Jan-16

Indian commodity trading comprises of physical or spot trading and derivative trading which is largely in form of futures. The current price at which a particular commodity can be bought or sold at a specified time and place is termed as the spot price. In simple terms price of futures reflect the expected price of a commodity at a given point in time in future. While this explains the general market perception as to future price, there is more to it. The price of a futures contract is equal to the spot price plus the net cost incurred in carrying the commodity till the expiry date of the futures contract.

While trading commodity futures, few terms which are repeatedly heard include contango, backwardation, spread, and cost of carry, basis etc. The purpose of this note is to explain these concepts for the benefit of trading.



Contango and backwardation indicate market structure of a particular commodity. In contango structure, near month contract trades at a discount to farther month contracts. In backwardation, near month contract trades at a premium to farther month contracts. For example, at present crude futures are in steep contango. On other hand, Refined Soy Oil futures are in backwardation.

The market structure can shift from contango to backwardation and vice versa based on demand supply situation. If demand increases and supply is tight, near month contract rises more than farther month contract. However, if supply increases and demand remains weak, near month contract falls more than farther month contract.

Spread is a price difference between two futures contracts and also the price difference between spot price and a particular futures contract. For example, if MCX Crude January contract is trading at Rs.2407 per barrel and February contract is trading at Rs.2507 per barrel, spread between the two is said to be Rs.100 per barrel. Spread is sometimes also quoted in percentage terms. The Rs.100 spread between these two contracts comes to about 4.15%. This is the spread for one month and when it is annualized it come about 50%.

The spread between spot and futures and between future month contracts indicates the cost of carry. Cost of carry is all fixed costs incurred when you buy a commodity (in spot or near month contract), hold it for the limited period and then deliver it against the futures contract.



The difference between spot and future is called the basis. If the futures price of a commodity is trading higher than its spot price, then the basis for the commodity is negative. On other hand, if the spot price of the asset is higher than its futures price, the basis for the commodity is positive. The basis risk is the risk faced due to mismatch between movement in spot and futures after initiation of a trading position.

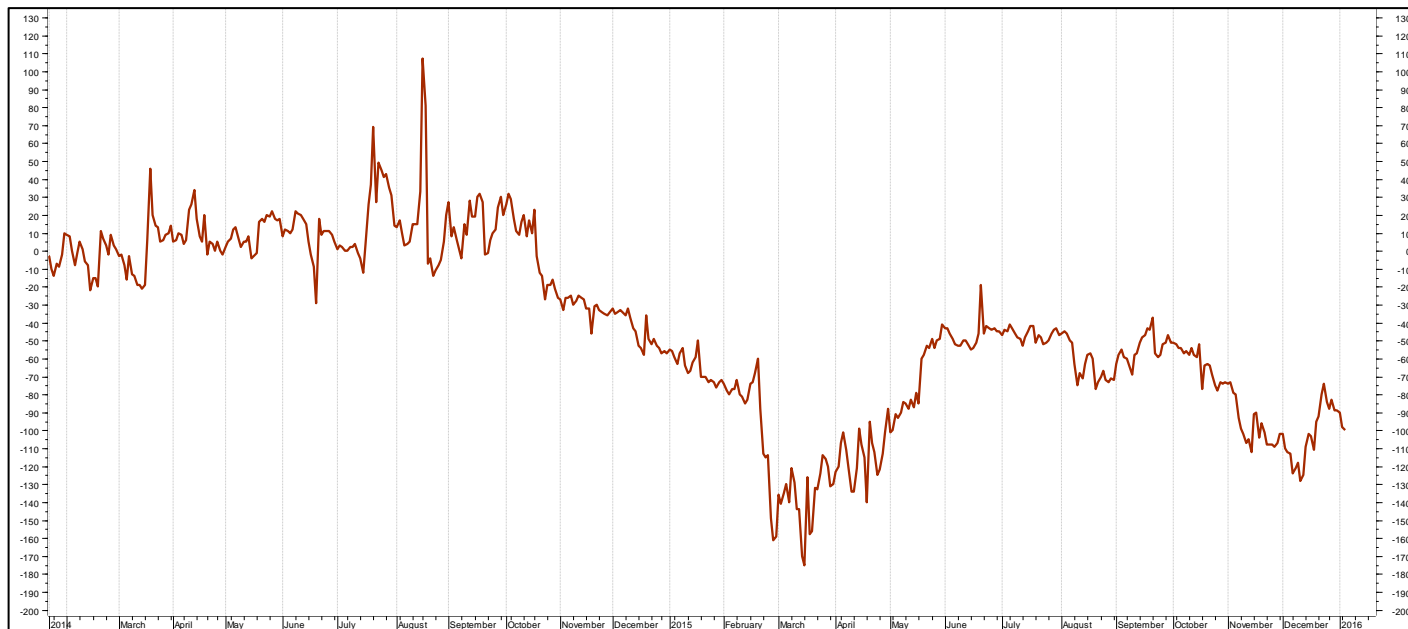
Trading Strategies

Calendar Spreads- Calendar spread is the difference between two futures contract. Based on market demand supply situation, spread between two contracts can vary and an individual can benefit from taking inverse position in two contracts. For example, if current difference between MCX Crude January and February contract is Rs.100 per barrel and we expect it to widen to Rs.150, one should short near month contract and buy farther month contract.

Arbitrage/ Cash and carry- If the price difference between spot and futures or between two futures contract is more than the cost of carry, one can consider buying in physical and selling futures contract. Similarly, one could buy one month futures and take delivery on exchange and sell the farther month contract and give delivery of the same.

Roll-over- Understanding the spread is important for roll over activity. When a person is considering a rollover, spreads have to be monitored to gauge the ideal time to do a roll-over. Similarly, spread also indicates the impact roll over will have on cost as well as profitability.

Example- MCX Crude Oil Spread Chart



The chart above shows how the movement of spread between first and second month crude oil contract. There have been sharp variations in the spread in last few months. The spread between first two contracts was almost flat in early 2014 but widened to Rs.175 per barrel in March 2015 and is currently near Rs.100 per barrel

The Rs.100 spread between two month contracts indicates that the cost of carry for one month is Rs.100 or 4.15%. On annualized terms, the cost of carry is almost 50%.

If one is holding a long position in crude and is considering a roll over the impact cost is 4.15%. This means that after every roll over the cost of long position increases by 4.15%. If one is holding a position with a view of one year, crude oil price has to rise by more than 50% to cover the cost of roll over itself. Hence while considering a roll over one has to keep two things in mind, first is direction of the trade and second is impact to the cost due to roll over.

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