S&P 500® Options Strategies

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NSE has created new benchmarks in technology infrastructure, risk management systems, clearing and settlement systems, investor services and best market practices. It has been in the fore front offering newer products in equities and derivatives and also new asset classes for the investors to choose from.

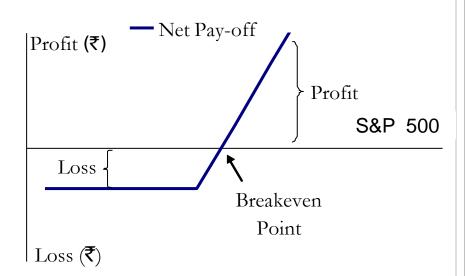
ONSE How to use this booklet

Each strategy has an accompanying graph at lower right hand corner showing profit and loss at expiration. The vertical axis shows the profit/loss scale.

When pay-off line is below the horizontal axis it represents the loss/outlay for the strategy. The portion of the pay-off line above the horizontal axis represents a credit or profit for the position.

The intersection of the pay-off line and the horizontal axis is the break-even point (BEP) not including transaction costs, commissions, taxes, margin costs etc.

An illustrative example for the explained strategy and a pay-off table based on example are also provided for better understanding. Each contract used in the following examples has a lot size of 250 S&P 500



Bullish Strategy: Long Call



• View: Very bullish on S&P 500

• Strategy : Buy call option

• Risk: Limited to premium

• Reward: Unlimited

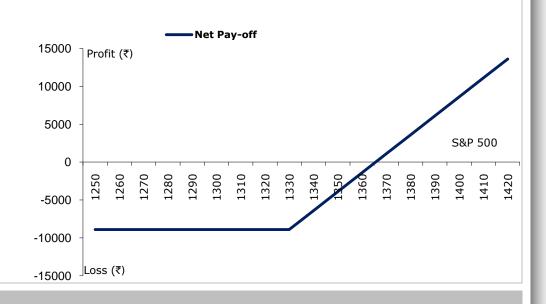
• Breakeven :Strike price + Premium

• Profit, when: S&P 500 goes up and option exercised

• Loss, when: S&P 500 does not go up and option expires unexercised

Example: Buy 1 Call Option*			
S&P 500	Spot Price (₹)	1320.00	
*Lot size 1 Contract = 250 S&P 500	Strike Price (₹)	1330.00	
	Premium (₹)	35.59	
	Break Even (₹)	1365.59	

S&P 500 on expiry (₹)	Premium Pay-off (₹)	Exercise Pay-off (₹)	Net Pay- off (₹)
1300.00	-8897.50	0.00	-8897.50
1350.00	-8897.50	5000.00	-3897.50
1365.59	-8897.50	8897.50	0.00
1400.00	-8897.50	17500.00	8602.50
1450.00	-8897.50	30000.00	21102.50



Bullish Strategy: Short Put

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• View: Bullish on S&P 500

• Strategy : Sell put option

• Risk: Unlimited

• Reward : Limited to premium

• Breakeven :Strike price – Premium

• Profit, when: S&P 500 does not go down and option expires unexercised

• Loss, when: S&P 500 goes down and option exercised

Example: Sell 1 Put Option*			
S&P 500	Spot Price (₹)	1320.00	
*Lot size 1 Contract = 250 S&P 500	Strike Price (₹)	1310.00	
	Premium (₹)	29.10	
	Break Even (₹)	1280.90	

S&P 500 on expiry (₹)	Premium Pay-off (₹)	Exercise Pay-off (₹)	Net Pay-off (₹)
1200	7275.00	-275000.00	-20225.00
1250	7275.00	-15000.00	-7725.00
1280.90	7275.00	-7275.00	0.00
1300	7275.00	-2500.00	4775.00
1350	7275.00	0.00	7275.00



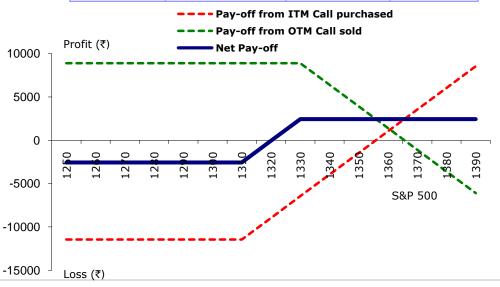
Bullish Strategy: Call Spread



- View: Moderately bullish on S&P 500
- Strategy: Buying ITM Call and selling OTM call thereby reducing cost and breakeven of ITM call
- Risk: Limited to net premium paid
- Reward : Limited to the difference between the two strikes minus net premium paid
- Breakeven :Strike price of purchased call + Net premium paid
- Max profit, when: both options exercised
- Max loss, when: both option unexercised

Example: Buy 1 ITM Call Option and Sell 1 OTM Call Option *			
S&P 500	Spot Price (₹)	1320.00	
*Lot size	ITM Call Strike Price (₹)	1310.00	
1 Contract = 250 S&P 500	Call Premium (₹)	45.84	
	OTM Call Strike Price(₹)	1330.00	
	Call Premium (₹)	35.59	
	Break Even (₹)	1320.25	

S&P 500 on expiry (₹)	Pay-off from ITM Call purchased (₹)	Pay-off from OTM Call sold (₹)	Net Pay- off (₹)
1280.00	-11460.00	8897.50	-2562.50
1310.00	-11460.00	8897.50	-2562.50
1320.25	-8897.50	8897.50	0.00
1340.00	-3960.00	6397.50	2437.50
1370.00	3540.00	-1102.50	2437.50



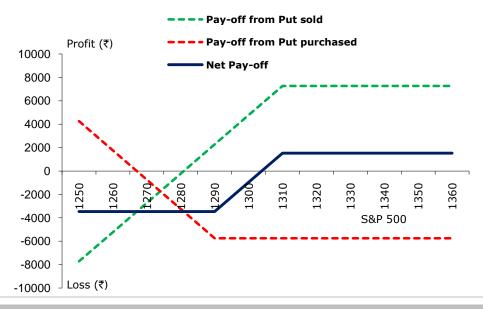
Bullish Strategy: Put Spread



- View: Moderately bullish on S&P 500
- Strategy: Sell OTM Put and buy further OTM put to protect downside
- Risk: Limited to the difference between the two strikes minus net premium received
- Reward: Limited to net premium received
- Breakeven :Strike Price of short put -Net premium received
- Max profit, when: both options unexercised
- Max loss, when: both options exercised

Example: Sell 1 OTM Put Option and Buy 1 OTM Put Option *			
S&P 500	Spot Price (₹)	1320.00	
*Lot size	Sell OTM Put strike price (₹)	1310.00	
1 Contract = 250 S&P 500	Put Premium (₹)	29.10	
	Buy OTM Put strike price(₹)	1290.00	
	Put Premium (₹)	22.98	
	Break Even (₹)	1303.88	

S&P 500 on expiry (₹)	Pay-off from Put sold(₹)	Pay-off from Put purchased (₹)	Net Pay- off (₹)
1260.00	-5225.00	1755.00	-3470.00
1280.00	-225.00	-3245.00	-3470.00
1303.88	5745.00	-5745.00	0.00
1320.00	7275.00	-5745.00	1530.00
1340.00	7275.00	-5745.00	1530.00



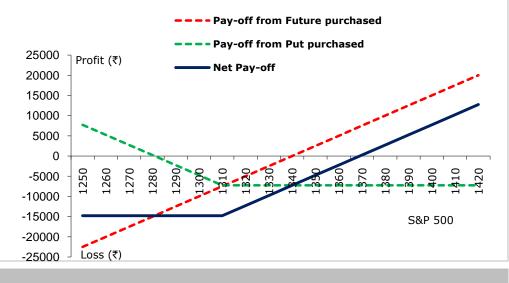
Bullish Strategy: Synthetic Call



- View: Conservatively bullish on S&P 500
- Strategy: Buy future and buy put option to protect against unexpected fall
- Risk: Limited to Future Price + Put Premium Put Strike Price
- Reward: Unlimited
- Breakeven :Future Price + Put Premium
- Profit, when: S&P 500 goes up
- Max loss, when: S&P 500 goes down and option exercised

Example: Buy 1 Future and 1 Put Option*			
S&P 500	Future Price (₹)	1340.00	
*Lot size 1 Contract =	Strike Price (₹)	1310.00	
250 S&P 500	Premium (₹)	29.10	
	Break Even (₹)	1369.10	

S&P 500 on expiry (₹)	Pay-off from Futures purchased (₹)	Pay-off from Put options (₹)	Net Pay- off (₹)
1300.00	-10000.00	-4775.00	-14775.00
1350.00	2500.00	-7275.00	-4775.00
1369.10	7275.00	-7275.00	0.00
1400.00	15000.00	-7275.00	7725.00
1450.00	27500.00	-7275.00	20225.00

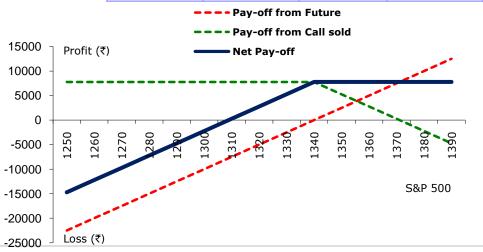


Bullish Strategy: Covered Call with Futures

- View: Moderately Bullish on existing long future in portfolio
- Strategy: Sell OTM call option to earn premium
- Risk: Unlimited if S&P 500 falls. Benefit to the extent of premium
- Reward : Limited to Strike price- Future Price Paid + Premium received
- Breakeven :Future price paid –Premium Received
- Max profit, when: S&P 500 goes up and option exercised
- Loss, when: S&P 500 goes down

Example: Existing 1 Long Future and Sell 1 OTM Call Option*					
S&P 500	Spot Price (₹)	1320.00			
*Lot size	Future Price (₹)	1340.00			
1 Contract = 250 S&P 500	Strike Price (X) 1340.00				
	Premium (₹)	31.10			
Break Even (₹) 1308.90					

S&P 500 on expiry (₹)	Pay-off from Futures (₹)	Pay-off from Call sold (₹)	Net Pay- off (₹)
1270.00	-17500.00	7775.00	-9725.00
1290.00	-12500.00	7775.00	-4725.00
1308.90	-7775.40	7775.00	0.00
1330.00	-2500.00	7775.00	5275.00
1350.00	2500.00	5275.00	7775.00
1370.00	7500.00	275.00	7775.00



Bullish Strategy: Collar



- View: Conservatively bullish
- Strategy: Buy futures, buy put to insure downside, sell call option to partly finance put
- Risk: Limited
- Reward: Limited
- Breakeven :Purchase price of futures Call premium + Put premium
- Max profit, when: S&P 500 goes up and call option exercised
- Max loss, when: S&P 500 goes down and put option exercised

Example: Buy 1 Future and 1Put Option Contract

and Sell 1 Call Option Contract*			
S&P 500	Future Price (₹) 1340.00		
*Lot size	Put Strike Price (₹)	1300.00	
1 Contract =	Put Premium (₹)	25.00	
250 S&P 500	Call Strike Price (₹)	1350.00	
	Call Premium (₹)	35.00	
	Breakeven (₹)	1330.00	

S&P 500 on expiry (₹)	Pay-off from Futures purchased (₹)	Pay-off from Put purchased (₹)	Pay-off from Call sold (₹)	Net Pay- off (₹)
1270.00	-17500.00	1250.00	8750.00	-7500.00
1290.00	-12500.00	-3750.00	8750.00	-7500.00
1310.00	-7500.00	-6250.00	8750.00	-5000.00
1330.00	-2500.00	-6250.00	8750.00	0.00
1350.00	2500.00	-6250.00	8750.00	5000.00
1370.00	7500.00	-6250.00	3750.00	5000.00



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Bullish Strategy: Long Combo



•	View:	Bullish	on S&F	5 00
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• Strategy: Sell OTM put and buy OTM call option

• Risk: Unlimited

• Reward: Unlimited

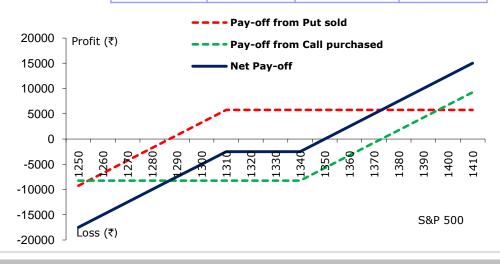
• Breakeven :Call strike + Net premium

• Profit, when: S&P 500 goes up and call option exercised

• Loss, when: S&P 500- INR goes down and put option exercised

Example: Sell 1 OTM Put Option and Buy 1 OTM Call Option*			
S&P 500	Spot Price (₹) 1320.00		
*Lot size	Put Strike Price (₹)	1310.00	
1 Contract =	Put Premium (₹)	23.00	
250 S&P 500	Call Strike Price(₹)	1340.00	
	Call Premium (₹)	33.00	
	Break Even (₹)	1350.00	

S&P 500 on expiry (₹)	Pay-off from Put sold (₹)	Pay-off from Call purchased (₹)	Net Pay- off (₹)
1290.00	750.00	-8250.00	-7500.00
1310.00	5750.00	-8250.00	-2500.00
1330.00	5750.00	-8250.00	-2500.00
1350.00	5750.00	-5750.00	0
1370.00	5750.00	-750.00	5000.00
1390.00	5750.00	4250.00	10000.00



Bearish Strategy: Long Put



• View: Bearish on S&P 500

• Strategy: Buy put option

• Risk: Limited to premium

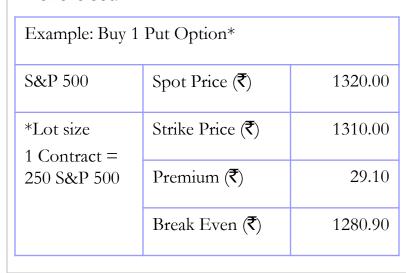
• Reward: Unlimited

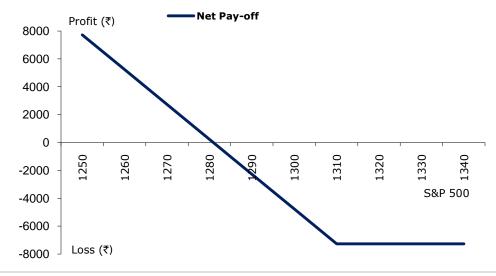
• Breakeven :Strike Price – Premium

Profit, when: S&P 500 goes down and option exercised

• Max loss, when: S&P 500 goes up and option not exercised

S&P 500 on expiry (₹)	Premium Pay-off (₹)	Exercise Pay-off (₹)	Net Pay- off (₹)
1250.00	-7275.00	15000.00	7725.00
1270.00	-7275.00	10000.00	2725.00
1280.90	-7275.00	7275.00	0.00
1300.00	-7275.00	2500.00	-4775.00
1320.00	-7275.00	0.00	-7275.00







Bearish Strategy: Short Call



• View: Very bearish on S&P 500

• Strategy: Sell call option

• Risk: Unlimited

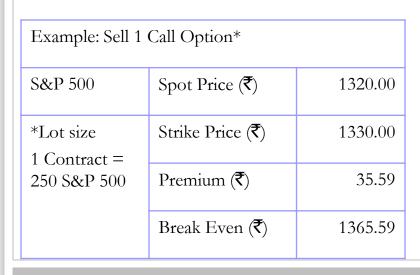
• Reward: Limited to premium

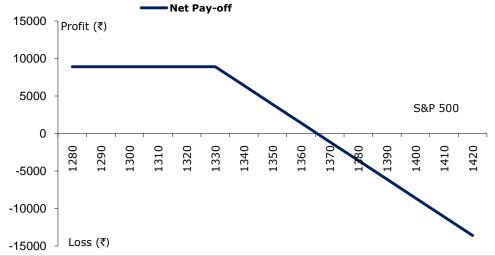
• Breakeven: Strike Price + Premium

• Max Profits, when: S&P 500 goes down and option not exercised

• Loss, when: S&P 500 goes up and option exercised

S&P 500 on expiry (₹)	Premium Pay-off (₹)	Exercise Pay-off (₹)	Net Pay- off (₹)
1320.00	8897.50	0.00	8897.50
1340.00	8897.50	2500.00	6397.50
1365.59	8897.50	-8897.50	0.00
1380.00	8897.50	-12500.00	-3602.50
1400.00	8897.50	17500.00	-8602.50





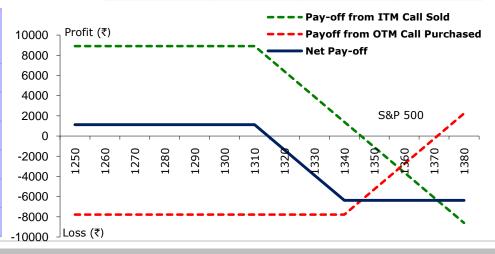
Bearish Strategy: Call Spread



- View: Mildly Bearish on S&P 500
- Strategy: Sell ITM Call and buy OTM Call option to protect against unexpected rise
- Risk: Limited to the difference between the two strikes minus net premium
- Reward: Limited to the net premium received
- Breakeven :Strike Price of Short call + Net premium received
- Max profit, when: S&P 500 goes down and both options not exercised
- Max loss, when: S&P 500 goes up and both options exercised

S&P 500 on expiry (₹)	Pay-off from ITM Call Sold (₹)	Pay-off from OTM Call Purchased (₹)	Net Pay- off (₹)
1270.00	8897.50	-7775.00	1122.50
1290.00	8897.50	-7775.00	1122.50
1314.49	7775.00	-7775.00	0.00
1330.00	3897.50	-7775.00	-3877.50
1350.00	-1102.50	-5275.00	-6377.50
1370.00	-6102.50	-275.00	-6377.50

Example: Sell 1 ITM Call Option and Buy 1 OTM Call Option*			
S&P 500	Spot Price (₹)	1320.00	
*Lot size	Sell ITM Call Strike Price (₹)	1310.00	
1 Contract = 250 S&P 500	Call Premium (₹)	35.59	
250 561 500	Buy OTM Call Strike Price(₹)	1340.00	
	Call Premium (₹)	31.10	
Break Even (₹) 1314.49			



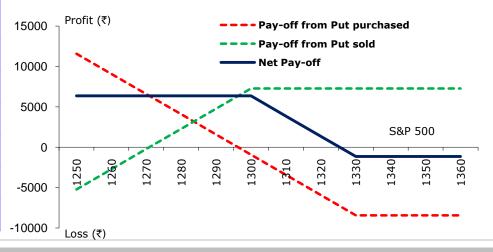
Bearish Strategy: Put Spread



- View: Moderately Bearish on S&P 500
- Strategy: Buy ITM Put and sell OTM Put option to reduce cost and breakeven of ITM Put
- Risk: Limited to net premium paid
- Reward : Limited to the difference between the two strikes minus net premium paid
- Breakeven :Strike price of long Put -Net premium paid
- Max profit, when: S&P 500 goes down and both options exercised
- Max loss, when: S&P 500 goes up and both options unexercised

Example: Buy 1 ITM Put Option and Sell 1 OTM Put Option*			
S&P 500	Spot Price (₹)	1320.00	
*Lot size	Buy ITM Put Strike Price (₹)	1330.00	
1 Contract = 250 S&P 500	Put Premium (₹)	33.71	
	Sell OTM Put Strike Price(₹)	1300.00	
	Put Premium (₹)	29.10	
	Break Even (₹)	1325.39	

S&P 500 on expiry (₹)	Pay-off from ITM Put purchased (₹)	Pay-off from OTM Put sold (₹)	Net Pay- off (₹)
1280.00	4072.50	2275.00	6347.50
1300.00	-927.50	7275.00	6347.50
1320.00	-5927.50	7275.00	1347.50
1325.39	-7275.00	7275.00	0.00
1340.00	-8427.50	7275.00	-1152.50
1360.00	-8427.50	7275.00	-1152.50





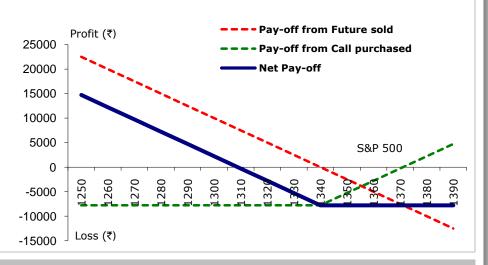
Bearish Strategy: Protective Call/Synthetic Long Put



- View: Bearish on S&P 500 but keep protected against any unexpected rise
- Strategy: Sell futures, buy call option to protect against rise in S&P 500
- Risk: Limited to Call strike price -Futures price + Premium
- Reward : Unlimited
- Breakeven :Futures price -Call premium
- Profit, when: S&P 500 goes down and option not exercised
- Max Loss, when: S&P 500 goes up and option exercised

Example: Sell 1 Future and Buy 1 Call Option*			
S&P 500	Future Price (₹) 1340.00		
*Lot size	Buy Call Strike Price (₹)	1340.00	
1 Contract =	Call Premium (₹)	31.10	
250 S&P 500	Breakeven (₹)	1308.90	

S&P 500 on expiry(₹)	Pay-off on Futures sold (₹)	Pay-off from Call purchased (₹)	Net Pay- off (₹)
1270.00	17500.00	-7775.00	9725.00
1290.00	12500.00	-7775.00	4725.00
1308.90	7775.00	-7775.00	0.00
1330.00	2500.00	-7775.00	-5275.00
1350.00	-2500.00	-5275.00	-7775.00
1370.00	-7500.00	-275.00	-7775.00



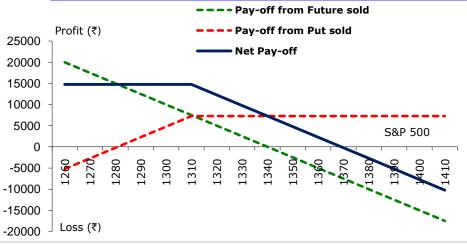
Bearish Strategy: Covered Put



- View: Neutral to Bearish on S&P 500
- Strategy: Sell futures, Sell OTM put option to earn premium
- Risk: Unlimited
- Reward : Future price Strike price + Put premium
- Breakeven: Futures price + Premium received
- Max Profit, when: S&P 500 goes down and option exercised
- Loss, when: S&P 500 goes up and option not exercised

Example: Sell 1 Future and Sell 1 Put Option *			
Future Price(₹)	1340.00		
Put Strike Price (₹)	1310.00		
Put Premium (₹)	29.10		
Breakeven (₹)	1369.10		
	Future Price(₹) Put Strike Price (₹) Put Premium (₹)		

S&P 500 on expiry (₹)	Pay-off from Futures sold(₹)	Pay-off from Put sold (₹)	Net Pay- off (₹)
1290.00	12500.00	2275.00	14775.00
1310.00	7500.00	7275.00	14775.00
1330.00	2500.00	7275.00	9775.00
1350.00	-2500	7275.00	4775.00
1369.10	-7275.00	7275.00	0.00
1390.00	-12500.00	7275.00	-5225.00



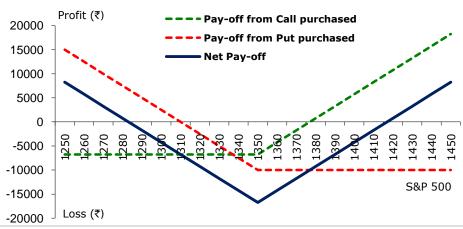
Neutral Strategy: Long Straddle



- View: S&P 500 will experience significant volatility
- Strategy: Buy call and buy put option of same strike price
- Risk: Limited to Premium paid
- Reward : Unlimited
- Breakeven :Upper BEP = Strike Price of Long Call +
 Net Premium Paid
 Lower BEP = Strike Price of Long Put Net
 Premium Paid
- Profit, when: One of the option exercised
- Max Loss, when: Both the option not exercised

S&P 500 on expiry (₹)	Pay-off from Call purchased (₹)	Pay-off from Put purchased (₹)	Net Pay- off (₹)
1250.00	-6750.00	15000.00	8250.00
1270.00	-6750.00	10000.00	3250.00
1283.00	-6750.00	6750.00	0
1320.00	-6750.00	-2500.00	-9250.00
1370.00	-1750.00	-10000.00	-11750.00
1417.00	10000.00	-10000.00	0
1440.00	15750.00	-10000.00	5750.00
1450.00	18250.00	-10000.00	8250.00

Example: Buy 1 Call & Buy 1 Put Option at same strike			
S&P 500	Spot Price (₹)	1320.00	
*Lot size	Call and Put Strike Price (₹)	1350.00	
1 Contract =	Call Premium (₹)	27.00	
250 S&P 500	Put Premium (₹)	40.00	
	Upper BEP (₹)	1417.00	
	Lower BEP (₹)	1283.00	

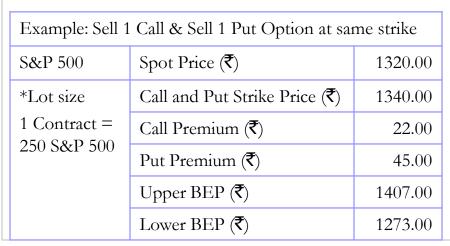


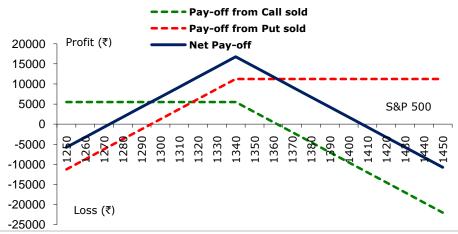
Neutral Strategy: Short Straddle



- View: S&P 500 will experience very little volatility
- Strategy: Sell Call and sell Put option of same strike price
- Risk: Unlimited
- Reward: Limited to Premium received
- Breakeven :Upper BEP = Strike price of short call +
 Net premium received
 Lower BEP = Strike price of short put Net premium
 received
- Max Profit, when: Both the options not exercised
- Loss, when: one of the options exercised

S&P 500 on expiry (₹)	Pay-off from Call sold (₹)	Pay-off from Put sold (₹)	Net Pay-off (₹)
1250.00	5500.00	-11250.00	-5750.00
1273.00	5500.00	-5500.00	0
1300.00	5500.00	1250.00	6750.00
1350.00	3000.00	11250.00	14250.00
1390.00	-7000.00	11250.00	4250.00
1407.00	-11250.00	11250.00	0
1430.00	-17000.00	11250.00	-5750.00
1450.00	-22000.00	11250.00	-10750.00





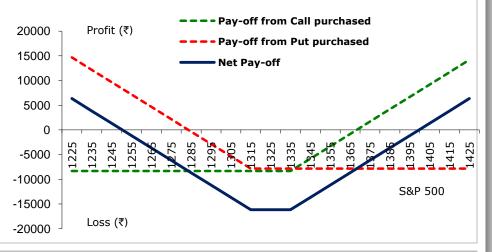
Neutral Strategy: Long Strangle



- View: S&P 500 will experience significant volatility
- Strategy: Buy slight OTM call and put option.
- Risk: Limited to premium paid
- Reward: Unlimited
- Breakeven :Upper BEP = Strike Price of Long Call +
 Net Premium Paid
 Lower BEP = Strike Price of Long Put Net Premium
 Paid
- Profit, when: One of the option exercised
- Max Loss, when: Both the option not exercised

Example: Buy 1 Call & 1 Put Option at same strike			
S&P 500	Spot Price (₹) 1320.0		
*Lot size	Call Strike Price (₹)	1335.00	
1 Contract = 250 S&P 500	Call Premium (₹)	33.29	
	Put Strike Price (₹)	1315.00	
	Put Premium (₹)	31.35	
	Upper BEP (₹)	1399.64	
	Lower BEP (₹)	1250.36	

S&P 500 on expiry (₹)	Pay-off from call purchased (₹)	Pay-off from put purchased (₹)	Net Pay- off (₹)
1225.00	-8322.50	14662.50	6340.00
1250.36	-8322.50	8322.50	0.00
1295.00	-8322.50	-2837.50	-11160.00
1325.00	-8322.50	-7837.50	-16160.00
1375.00	1677.50	-7837.50	-6160.00
1399.64	7837.50	-7837.50	0.00
1415.00	11677.50	-7837.50	3840.00
1425.00	14177.50	-7837.50	6340.00



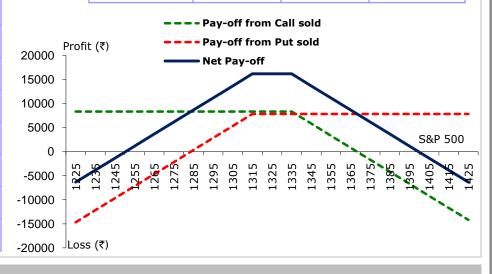
Neutral Strategy: Short Strangle



- View: S&P 500 will experience very little volatility.
- Strategy: Sell OTM Call and Put option
- Risk: Unlimited
- Reward: Limited to premium received
- Breakeven :Upper BEP = Strike Price of Long Call +
 Net Premium Received
 Lower BEP = Strike Price of Long Put Net Premium
 Received
- Max Profit, when: Both the options not exercised
- Loss: When one of the options exercised

Example: Sell 1 Call & Sell 1 Put Option at same strike			
S&P 500	Spot Price (₹) 1320		
*Lot size	Call Strike Price (₹)	1335.00	
1 Contract = 250 S&P 500	Call Premium (₹)	33.29	
	Put Strike Price (₹)	1315.00	
	Put Premium (₹)	31.35	
	Upper BEP (₹)	1399.64	
	Lower BEP (₹)	1250.36	

S&P 500 on expiry (₹)	Pay-off from call sold (₹)	Pay-off from put sold (₹)	Net Pay-off (₹)
1225.00	8322.50	-14662.50	-6340.00
1250.36	8322.50	-8322.50	0.00
1295.00	8322.50	2837.50	11160.00
1325.00	8322.50	7837.50	16160.00
1375.00	-1677.50	7837.50	6160.00
1399.64	-7837.50	7837.50	0.00
1415.00	-11677.50	7837.50	-3840.00
1425.00	-14177.50	7837.50	-6340.00



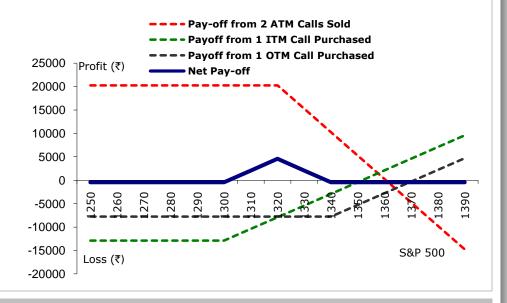
Neutral Strategy: Long Call Butterfly



- View: Neutral on S&P 500 direction and bearish on volatility
- Strategy: Sell 2 ATM Call, Buy 1 ITM Call and Buy 1 OTM Call
- Risk: Limited to net premium paid
- Reward : Limited to difference between adjacent strikes minus net premium debit
- Breakeven: Upper BEP = Higher Strike Price Net Premium
 - Lower BEP = Lower Strike Price + Net Premium
- Profit, when: ITM call exercised and other options not exercised
- Max Loss:, when: all options exercised or all options not exercised

Example Sell 2 ATM Call, Buy 1 ITM Call, Buy 1 OTM Call			
S&P 500	Spot Price 13.		
*Lot size	Sell ATM Call Strike (₹)	1320.00	
1 Contract = 250 S&P 500	Call Premium (₹)	40.50	
230 S&F 300	Buy ITM Call Strike (₹)	1300.00	
	Call Premium (₹)	51.61	
	Buy OTM Call Strike (₹)	1340.00	
	Call Premium (₹)	31.10	
	Upper BEP (₹)	1338.29	
	Lower BEP (₹)	1301.71	

S&P 500 on expiry	Pay-off from 2 ATM Calls Sold (₹)	Payoff from 1 ITM Call purchased (₹)	Payoff from 1 OTM Call purchased (₹)	Net Pay- off (₹)
1270.00	20250.00	-12902.50	-7775.00	-427.50
1290.00	20250.00	-12902.50	-7775.00	-427.50
1301.71	20250.00	-12475.00	-7775.00	0.00
1320.00	20250.00	-7902.50	-7775.00	4572.50
1338.29	11105.00	-3330.00	-7775.00	0.00
1350.00	5250.00	-402.50	-5275.00	-427.50
1370.00	-4750.00	4597.50	-275.00	-427.50



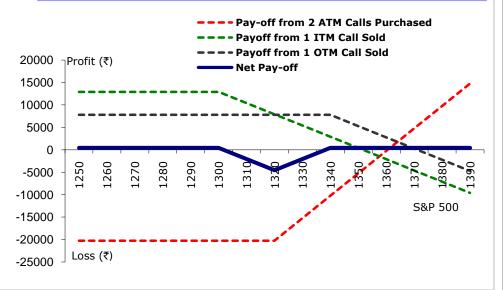
Neutral Strategy: Short Call Butterfly



- View: Neutral on S&P 500 direction and bullish on volatility
- Strategy: Buy 2 ATM Call, Sell 1 ITM Call and Sell 1 OTM Call
- Risk: Limited to difference between adjacent strikes minus net premium received
- Reward:Limited to net premium received
- Breakeven: Upper BEP = Higher Strike Price Net Premium Lower BEP = Lower Strike Price + Net Premium
- Max Profit, when: all options exercised or all options not exercised
- Loss, when: ITM call exercised and other options not exercised

Example: Buy 2 ATM Call, Sell 1 ITM Call, Sell 1 OTM Call				
S&P 500	Spot Price	1320.00		
*Lot size	Buy ATM Call Strike (₹)	1320.00		
1 Contract = 250 S&P 500	Call Premium (₹)	40.50		
230 8&P 300	Sell ITM Call Strike (₹)	1300.00		
	Call Premium (₹)	51.61		
	Sell OTM Call Strike (₹)	1340.00		
	Call Premium (₹)	31.10		
	Upper BEP (₹)	1338.29		
	Lower BEP (₹)	1301.71		

S&P 500 on expiry (₹)	Pay-off from 2 ATM Calls Purchased (₹)	Payoff from 1 ITM Call sold (₹)	Payoff from 1 OTM Call sold (₹)	Net Pay-off (₹)
1270.00	-20250.00	12902.50	7775.00	427.50
1290.00	-20250.00	12902.50	7775.00	427.50
1301.71	-20250.00	12475.00	7775.00	0.00
1320.00	-20250.00	7902.50	7775.00	-4572.50
1338.29	-11105.00	3330.00	7775.00	0.00
1350.00	-5250.00	402.50	5275.00	427.50
1370.00	4750.00	-4597.50	275.00	427.50



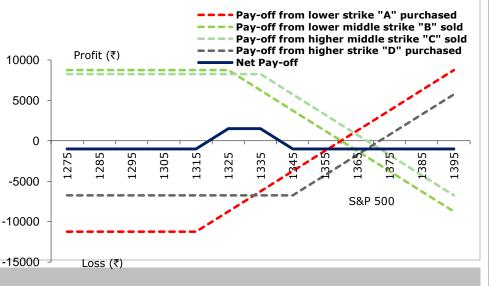
Neutral Strategy: Long Call Condor



- View: Range bound market
- Strategy: Buy 1 ITM Call (Lower strike "A"), Sell 1 ITM Call (Lower middle "B"), Sell 1 OTM Call (Higher middle "C"), Buy 1 OTM Call (Higher strike "D")
- Risk: Limited to difference between the lower strike spread less the higher strike spread less premium paid
- Reward :Limited. Max profit when S&P 500 between "B" and "C"
- Breakeven: Upper BEP = Highest Strike Price Net Premium. Lower BEP = Lowest Strike Price + Net Premium
- Max Profit, when: option "A & B" exercised
- Max Loss, when: all options exercised or all options not exercised

S&P 500	Spot Price	1320.00
*Lot size	Buy ITM Call Strike "A" (₹)	1315.00
1 Contract = 250 S&P 500	Call Premium (₹)	45.00
5 61 500	Sell ITM Call Strike "B" (₹)	1325.00
	Call Premium (₹)	35.00
	Sell OTM Call Strike "C" (₹)	1335.00
	Call Premium (₹)	33.00
	Buy OTM Call Strike "D" (₹)	1345.00
	Call Premium (₹)	27.00
	Upper BEP (₹)	1341.00
	Lower BEP (₹)	1319.00

S&P 500 on expiry (₹)	Pay-off from "A" (₹)	Pay-off from "B" (₹)	Pay-off from "C" (₹)	Pay-off from "D" (₹)	Net Pay- off (₹)
1285.00	-11250.00	8750.00	8250.00	-6750.00	-1000.00
1305.00	-11250.00	8750.00	8250.00	-6750.00	-1000.00
1319.00	-10250.00	8750.00	8250.00	-6750.00	0.00
1325.00	-8750.00	8750.00	8250.00	-6750.00	1500.00
1335.00	-6250.00	6250.00	8250.00	-6750.00	1500.00
1341.00	-4750.00	4750.00	6750.00	-6750.00	0.00
1355.00	-1250.00	1250.00	3250.00	-4250.00	-1000.00
1375.00	3750.00	-3750.00	-1750.00	750.00	-1000.00





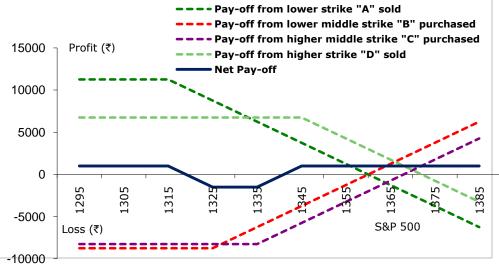
Neutral Strategy: Short Call Condor



- View: Market will break-out trading range, but direction is uncertain
- Strategy: Sell 1 ITM Call (Lower strike "A"), Buy 1 ITM Call (Lower middle "B"), Buy 1 OTM Call (Higher middle "C"), Sell 1 OTM Call (Higher strike "D")
- Risk: Limited. Max loss when S&P 500 between "B" and "C"
- Reward:Limited. Price move above the "D" or below "A"
- Breakeven: Upper BEP = Highest Strike Price Net Premium Lower BEP = Lowest Strike Price + Net Premium
- Max Profit, when: all options exercised or all options not exercised
- Max Loss, when: option "A & B" exercised

S&P 500	Spot Price	1320.00
*Lot size	Sell ITM Call Strike "A" (₹)	1315.00
1 Contract = 250 S&P 500	Call Premium (₹)	45.00
561 500	Buy ITM Call Strike "B" (₹)	1325.00
	Call Premium (₹)	35.00
	Buy OTM Call Strike "C" (₹)	1335.00
	Call Premium (₹)	33.00
	Sell OTM Call Strike "D" (₹)	1345.00
	Call Premium (₹)	27.00
	Upper BEP (₹)	1341.00
	Lower BEP (₹)	1319.00

S&P 500 on expiry (₹)	Pay-off from "A" (₹)	Pay-off from "B" (₹)	Pay-off from "C" (₹)	Pay-off from "D" (₹)	Net Pay- off (₹)
1285.00	11250.00	-8750.00	-8250.00	6750.00	1000.00
1305.00	11250.00	-8750.00	-8250.00	6750.00	1000.00
1319.00	10250.00	-8750.00	-8250.00	6750.00	0.00
1325.00	8750.00	-8750.00	-8250.00	6750.00	-1500.00
1335.00	6250.00	-6250.00	-8250.00	6750.00	-1500.00
1341.00	4750.00	-4750.00	-6750.00	6750.00	0.00
1355.00	1250.00	-1250.00	-3250.00	4250.00	1000.00
1375.00	-3750.00	3750.00	1750.00	-750.00	1000.00



Neutral Strategy: Long Box or Conversion

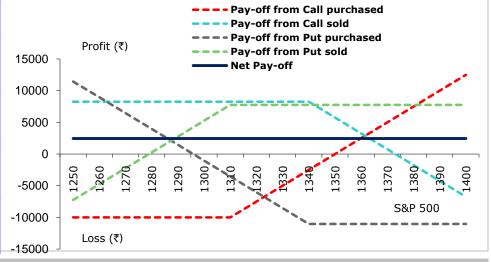
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- To take advantage of temporary mis-pricing of options in the market.
- Strategy: Long Call "A", short Call "B", long Put "B" and Short Put "A"; Where B>A
- Risk: None, No effect of price change
- Reward : Fixed ((B-A)-Net Premium Debit)
- Max Profit, when: Always
- Max Loss, when: No effect of price change

Example: Buy 1 Call, Sell 1 Call, Buy	1 Put & Sell 1
Put *	

S&P 500	Spot Price	1320.00
*Lot size 1 Contract = 250 S&P 500	Premium for Call Strike Price 1310 (₹)	40.00
	Premium for Call Strike Price 1340 (₹)	33.00
	Premium for Put Strike Price 1340 (₹)	44.20
	Premium for Put Strike Price 1310 (₹)	31.00

S&P 500 on expiry (₹)	Pay off from Call Bought (₹)	Pay off from Call Sold (₹)	Pay off from Put Bought (₹)	Pay off from Put Sold (₹)	Net Pay-off (₹)
1310.00	-10000.00	8250.00	-3550.00	7750.00	2450.00
1330.00	-5000.00	8250.00	-8550.00	7750.00	2450.00
1350.00	0.00	5750.00	-11050.00	7750.00	2450.00
1370.00	5000.00	750.00	-11050.00	7750.00	2450.00
1390.00	10000.00	-4250.00	-11050.00	7750.00	2450.00
1410.00	15000.00	-9250.00	-11050.00	7750.00	2450.00
1430.00	20000.00	-14250.00	-11050.00	7750.00	2450.00



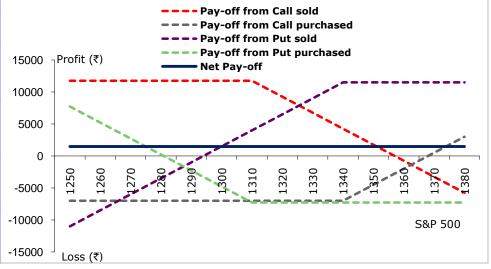
Neutral Strategy: Short Box or Conversion

- To take advantage of temporary mis-pricing of options in the market.
- Strategy: Long Call "B", Short Call "A", Long Put "A" and Short Put "B"; Where B>A
- Risk: None, No effect of price change
- Reward : Fixed ((B-A)-Net Premium Credit)
- Max Profit, when: Always
- Max Loss, when: Never. No effect of price change

Example: Buy 1 Call ,Sell 1 Call, Buy 1 Put & Sell 1	
Put *	

S&P 500	Spot Price	1320.00
*Lot size 1 Contract = 250 S&P 500	Premium for Call Strike Price 1310 (₹)	47.00
	Premium for Call Strike Price 1340 (₹)	28.00
	Premium for Put Strike Price 1340 (₹)	46.00
	Premium for Put Strike Price 1310 (₹)	29.10

S&P 500 on expiry	Pay off from Call Bought (₹)	Pay off from Call Sold (₹)	Pay off from Put Bought (₹)	Pay off from Put Sold (₹)	Net Pay-off (₹)
1310.00	11750.00	-7000.00	4000.00	-7275.00	1475.00
1330.00	6750.00	-7000.00	9000.00	-7275.00	1475.00
1350.00	1750.00	-4500.00	11500.00	-7275.00	1475.00
1370.00	-3250.00	500.00	11500.00	-7275.00	1475.00
1390.00	-8250.00	5500.00	11500.00	-7275.00	1475.00
1410.00	-13250.00	10500.00	11500.00	-7275.00	1475.00
1430.00	-18250.00	15500.00	11500.00	-7275.00	1475.00



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Neutral Strategy: Put-Call Parity



- To take advantage of temporary mis-pricing of options in the market.
- Relation: Call + PV (Strike) = Put + PV (Futures)
- Strategy: Sell Call & Invest in Bond and Buy Put & Futures if
 Call +PV (Strike) > Put + Futures
- Sell Put & Futures and Buy Call & Invest in Bond if
 Call + PV (Strike) < Put + Futures

Example: Sell 1 Call ,Invest Cash , Buy 1 Put & Buy 1

- Risk: None, No effect of price change
- Reward: Limited to the price difference
- Max Profit, when: Always
- Max Loss, when: No effect of price change

Future Contract *				
S&P 500	Futures Price 1			
*Lot size 1 Contract = 250 S&P 500	Premium for Call Strike Price 1310 (₹)	50.00		
	Premium for Put Strike Price 1310 (₹)	25.00		
	Interest Rate (per Annum)%	5.00		
	Cash to be invested (PV of Strike)	1304		

S&P 500 on expiry (₹)	Pay- off from Future (₹)	Pay-off from Put (₹)	Pay-off from Call (₹)	Net Pay-off (₹)
1300.00	-6250.00	12500.00	-3750.00	2500.00
1320.00	-1250.00	10000.00	-6250.00	2500.00
1340.00	3750.00	5000.00	-6250.00	2500.00
1360.00	8750.00	0	-6250.00	2500.00
1380.00	13750.00	-5000.00	-6250.00	2500.00
1400.00	18750.00	-10000.00	-6250.00	2500.00
1420.00	23750.00	-15000.00	-6250.00	2500.00



At-the money (ATM): Any option is at-the money if the strike price is equal to the market price of underlying.

Break-Even Point (BEP): The price at which an option strategy results in neither a profit nor loss.

Call: An option contract that gives the holder the right to buy the underlying at a specified price for a certain, fixed period of time.

In-the-money (ITM): A call option is in-the-money if the strike price is less than the market price of the underlying. A put option is in-the-money if the strike price is greater than the market price of the underlying.

Long position: A position wherein an investor is a net holder in a particular options series.

Out-of-the-money (OTM): A call option is out-of-themoney if the strike price is greater than the market price of the underlying . A put option is out-of-themoney if the strike price is less than the market price of the underlying. Premium: The price a put or call buyer must pay to a put or call seller (writer) for an option contract. Market supply and demand forces determine the premium.

Put: An option contract that gives the holder the right to sell the underlying at a specified price for a certain, fixed period of time.

Strike price or exercise price: The stated price per quantity for which the underlying may be purchased (in the case of a call) or sold (in the case of a put) by the option holder upon exercise of the option contract.

Synthetic position: A strategy involving two or more instruments that has the same risk/reward profile as a strategy involving only one instrument.

Time decay or erosion: A term used to describe how the time value of an option can "decay" or reduce with the passage of time.

Volatility: A measure of the fluctuation in the market price of the underlying. Mathematically, volatility is the annualized standard deviation of returns.

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