## 10.3 SYNTHETIC PUT STRATEGY

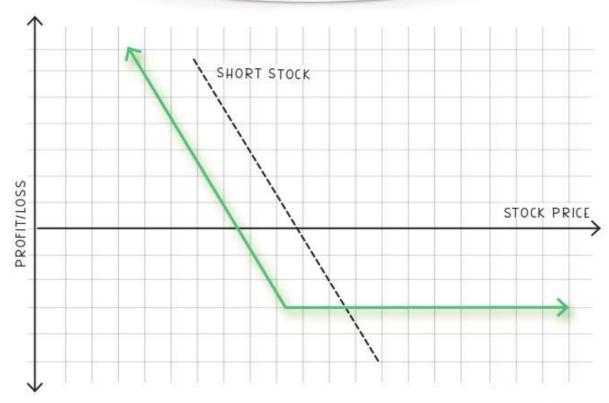


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SYNTHETIC PUT STRATEGY IS A RISK MANAGEMENT STRATEGY THAT USES CALL OPTION TO INSURE SHORT POSITION IN ANY STOCK OR INDEX.

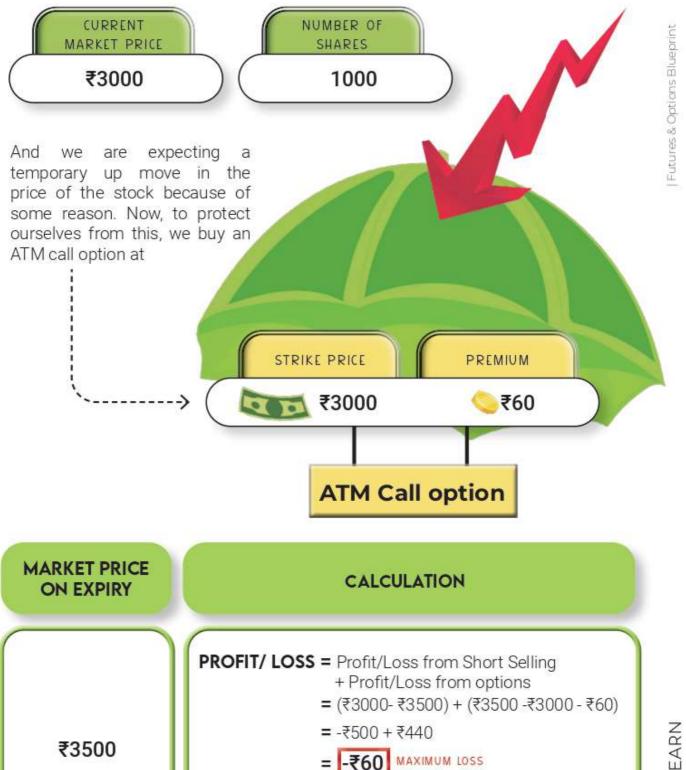
IT WOULD LIMIT YOUR RISK OF INCURRING LOSSES FROM UPSIDE MOVEMENT AND PROVIDE YOU WITH UNLIMITED PROFITS FROM THE DOWNWARD MOVEMENT OF THE ASSET PRICE.



This strategy is exactly the opposite of Protective Put or Synthetic Call that we were discussing in the previous part. The name Synthetic Put again comes from the fact that this strategy also resembles a Simple Put option in terms of risk and reward potential.

The purpose of a synthetic put strategy is similar to a synthetic call strategy. The only difference is that here we are protecting ourselves from upside movement because we are short on the asset. Therefore, we are buying a call option in this strategy.

For example, suppose we are short on shares at (In India, you can not short shares which you can do in many developed markets, but you can short in Futures market):



loss.

So, we can see that our net loss should have been ₹500 but due to the limited loss nature of the agreement, the total loss was limited to ₹60 which is the maximum

By applying this strategy, we have in a way insured ourselves from the expected loss for a specific period of time. We may protect ourselves again by entering this synthetic put as needed. Essentially, limited losses with call. The profit potential remains unlimited whereas the losses are limited to the premium amount paid.

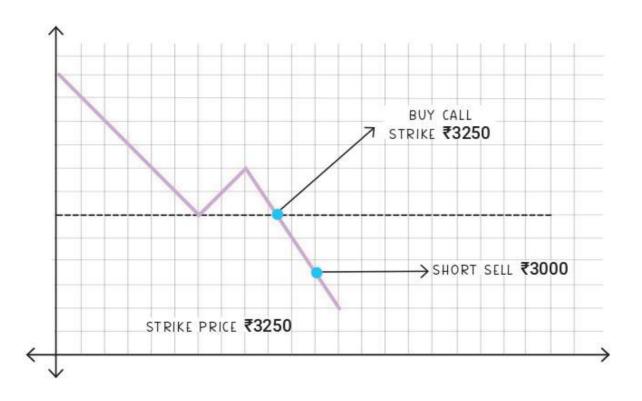
WE MAY BE SHORT ON STOCK OR FUTURES AND LONG ON CALL ATM OR OTM AND THIS WILL CREATE OUR SYNTHETIC PUT. IN INDIA, A SHORT POSITION ON CASH IS NOT ALLOWED BUT ONE MAY DO SO USING FUTURES.

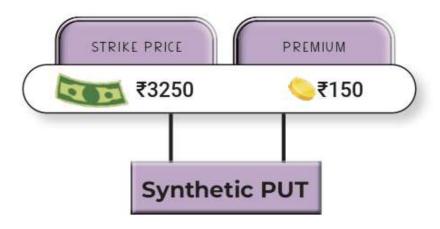




Let us discuss another example of synthetic put.

A man sells 100 shares of Asian Paints at ₹3000 with the expectation that the price will decrease. Therefore, he hedges his position by buying a call option at a premium of ₹150 per share at a strike price of ₹3250 (say).





Assuming, MARKET PRICE **NET PROFIT/LOSS EXPLANATION** ON EXPIRY We can see that the price rises by ₹500. Profit/Loss The loss for the trader should have = Profit/Loss from ShortSell + been ₹500 but due to Profit/Loss from Call Option the synthetic put, the **=** (₹3000 - ₹3500) +(₹3500 - ₹3250losses were limited. ₹150) ₹3500 The losses here were = -500+100 limited to ₹400 as the = -₹400 MAXIMUM LOSS options bought were out of money. This is what Protective The Maximum Loss is limited to Put does, it limits the ₹400. losses for the trader. Here, we can see that the trader would Profit/Loss have made a profit of = Profit/Loss from ShortSell + ₹1000. But due to the Profit/Loss from Call Option ₹2000 cost of Synthetic Put, **=** (₹3000 - ₹2000) +(-₹150) the profit got reduced **=** ₹1000 - ₹150

by ₹150 i.e. premium paid. Total Profit for the trader = ₹850.

= ₹850