**Parameters Overview**

**1. i\_SemaforPeriod\_1**

* Not used in the EA.

**2. i\_SemaforPeriod\_2**

* Used to plot levels based on Semafor points.
* Since Semafor is a repainting indicator, the EA waits for an opposite Semafor point to appear before confirming the level and plotting it.

**3. i\_SemaforPeriod\_3**

* Similar to i\_SemaforPeriod\_2, but in addition to plotting levels, it defines CHoCH (Change of Character) levels.
* The CHoCH level is calculated as the highest point between the previous BOS (Break of Structure) and the new BOS for sell orders (vice versa for buy orders).

**4. i\_SemaforDevStep\_1**

* Not significantly relevant in the EA.

**5. i\_SemaforDevStep\_2**

* Not significantly relevant in the EA.

**6. i\_SemaforDevStep\_3**

* Not significantly relevant in the EA.

**7. i\_UsePeriod\_2**

* Allows enabling or disabling the use of i\_SemaforPeriod\_2.

**8. i\_UsePeriod\_3**

* Allows enabling or disabling the use of i\_SemaforPeriod\_3.

**9. i\_LookBackBar**

* Defines how many bars to look back when searching for Semafor signals.

**Refined Explanation Based on Code Analysis**

**1. Entry and Exit Management**

**i\_EntryModel (Entry Model Selection)**

* Three available models:
  + **Original Entry Model** → Uses pending orders, stop loss, and take profit.
  + **New Entry Model (MTF-based)** → Not relevant for this update.
  + **Scaling-In Entry Model (Grid System)** → Main focus.

**How the Scaling-In Model Works:**

* Trades are opened based on the setup (like the original model).
* No stop loss is used.
* Multiple trades are opened in a grid-like system.
* **Problem:** The current exit logic is based on CHoCH reversal, which needs modification.

**i\_RiskPerTrade (Risk Allocation)**

* Works only for the Original Entry Model.
* Instead of using lot size, it calculates the risk in dollars per trade.

**i\_Commision (Commission Cost)**

* This input adds commission to the trade calculations:
  + Lot size calculation.
  + Take profit adjustment.
  + Stop loss adjustment.

**i\_TradeCHOCLevel (Trading CHoCH Levels)**

* Determines whether the EA should trade CHoCH levels or ignore them.

**i\_DeletePendingOrderIfAgainstCHOC (CHoCH Trade Control)**

* **If OFF** → The EA keeps trading CHoCH levels until a new CHoCH reversal trade appears.
* **If ON** → The EA trades the CHoCH level only once, then stops.

**2. Recovery System**

**i\_UseRecover (Recovery System)**

* If the previous trade lost, the next trade’s RR increases.

**Example:**

* **First trade:** 1:1 RR.
* **If it loses**, the second trade becomes 2:1 RR.
* **If the second trade loses**, the third trade becomes 3:1 RR.
* This continues until a trade hits TP, then the RR resets to 1:1.
* Works only for the Original Entry Model.

**i\_UsePlanA (Plan A - RR Limit)**

* Prevents excessive RR growth caused by the recovery model.

**Uses Two Parameters:**

* **i\_PlanA\_MaxLossTrade** → Defines how many losses activate Plan A.
* **i\_PlanANewRR** → Limits max RR (e.g., 5:1), adjusting lot size accordingly.

**i\_UsePlanB (Plan B - RR Extension)**

* Extends Plan A’s RR limit when certain lot size conditions are met.

**Example:**

* **Plan A max RR** = 5:1.
* **If Plan B activates**, RR increases to 6:1, 7:1, 8:1.

**3. Lot Sizing (Scaling-In Entry Model Focused)**

**i\_TakeProfitBasket (Basket Take Profit)**

* Sets a TP for multiple trades instead of individual orders.
* Works only in the Scaling-In (Grid) model.

**i\_MaxDistanceToCHOC (CHoCH-Based Exit)**

* This exit logic is too risky and needs modification.

**Key Adjustments Needed**

* Modify CHoCH-based exits to improve risk management.
* Refine the scaling-in strategy to control drawdowns.
* Ensure Plan A & Plan B adjustments align with the lot size logic.
* **Budget is flexible but do not ask for huge amounts! If you request $400 or $500, you will be rejected.**
* **For this job, I need a good profile and rating. Less than 100 completed projects will be rejected! Also, bad profiles will be rejected.**
* **You must explain the current EA parameters and then explain what you understood from the new modifications. Do not just say hello!**
* **There are three sections you must read and understand. Most modifications are relevant to the entry models (scaling and original).**
  + **Section 1:** Modifications part.
  + **Section 2:** Adding indicator part.
  + **Section 3:** Adding your experience to make this EA work part.
* **First, understand Section 1. Once you understand it, proceed to Section 2, and then Section 3.**