



Swing Trading Strategy for Indian Equity: combining Williams %R and MACD

Background

Why combine Williams %R and MACD?

- **Williams %R** is a momentum oscillator that oscillates between 0 and -100. It compares the current closing price to a recent high-low range and helps identify overbought or oversold conditions. Readings above -20 indicate prices near the top of the range (overbought), and readings below -80 indicate prices near the bottom (oversold). Traditional interpretations suggest waiting for a confirmation move: after an oversold reading (<-80), a rise above the mid-line (-50) confirms an upturn, while after an overbought reading (>-20), a drop below -50 confirms a downturn ¹. A longer look-back period reduces sensitivity and can help smooth whipsaws ¹.
- **MACD (Moving Average Convergence Divergence)** is a trend-following momentum indicator. It consists of the **MACD line** (12-period EMA minus 26-period EMA) and a **signal line** (9-period EMA of the MACD line). When the MACD line crosses above its signal line it generates a bullish signal; when it crosses below, it gives a bearish signal ². Because MACD is unbounded, it is better at identifying trend direction rather than overbought/oversold levels ².
- The combination is powerful: Williams %R highlights momentum extremes (potential turning points), while MACD confirms trend direction and momentum. Strike.money notes that combining Williams %R with MACD allows traders to **strengthen buy/sell signals**; Williams %R identifies overbought/oversold conditions and MACD confirms the direction and strength of the trend ³.

Suitable time frames for swing trading

- Swing trading involves holding positions for **a few days to a few weeks**. Share India's educational article defines swing trading as a strategy in which traders hold positions for several days or weeks, capturing short-term price swings ⁴.
- Swing traders typically use **medium-term time frames**, such as the **4-hour chart** or **daily chart**, to identify trends and potential reversal points ⁵. Longer time frames (weekly/monthly) are more suitable for investors, while shorter time frames (5-minute/15-minute) are more relevant for day traders ⁵.
- An example of multi-time-frame analysis: traders might use a **daily chart** to find the broader trend, then drop to a **4-hour or 1-hour chart** to pinpoint entry points within that trend ⁴. This helps align trades with prevailing market direction.

Risk management principles

- **2 % rule:** limit risk on a single trade to no more than ~2 % of trading capital. Investopedia's risk-management article notes that many traders divide their capital by the amount they are willing to lose (2 % per trade) to determine the maximum position size. This approach helps preserve capital through losing streaks and encourages disciplined decision-making ⁶.

- **Risk/reward ratio:** swing traders often target a risk-reward ratio of at least 1:2, meaning the potential profit should be twice the potential loss. Groww's swing-trading overview gives an example of risking ₹1,000 to try to gain ₹2,000 or more [7](#).
- **Stop-loss orders:** combining the 2 % rule with stop-loss orders helps ensure losses remain manageable [6](#). Place the stop-loss below the most recent swing low for long trades or above the recent swing high for short trades. Trailing stops can lock in profits as a trend progresses.

Strategy outline

1 – Stock selection

1. **Liquidity & volatility** – choose highly traded stocks or exchange-traded funds (e.g., Nifty 50 constituents) with sufficient daily volume to reduce slippage. Avoid illiquid small-cap stocks.
2. **Trend identification** – use the **daily chart** to identify the broader trend. Add a simple moving average (SMA), e.g., 50-day SMA. Only take long trades when the price is above the SMA (uptrend) and short trades when it is below (downtrend). This helps align trades with the prevailing trend.

2 – Indicator settings

Indicator	Settings	Interpretation
Williams %R	14-period look-back (default). Values range from 0 to -100. Above -20 = overbought; below -80 = oversold 1 .	Identifies momentum extremes; a move above -50 after oversold (< -80) signals an upturn; a drop below -50 after overbought (> -20) signals a downturn 1 .
MACD	MACD line: 12-period EMA minus 26-period EMA; Signal line: 9-period EMA of MACD 2 .	Bullish when MACD crosses above its signal line; bearish when MACD crosses below 2 . MACD measures momentum and trend direction.
Optional SMA	50-day SMA on daily chart	Helps filter trades in the direction of the broader trend.

3 – Entry criteria

1. **Identify the broader trend** on the daily chart: price should be above the 50-day SMA for long trades or below for short trades.
2. **Drop to the 4-hour chart** (or 1-hour chart for more precise entries). Wait for the following alignment:

Long (buy) setup

- **Oversold condition** – Williams %R falls below -80 (oversold), indicating price is near the bottom of its recent range [1](#). Wait until it **climbs back above -50**; this upward movement confirms that momentum is turning positive [1](#).
- **MACD confirmation** – at the same time, look for the **MACD line to cross above its signal line** or for the MACD histogram to start rising from negative territory [2](#). Strike.money notes that combining Williams %R with MACD enhances signal accuracy; MACD provides confirmation of the trend's strength [3](#).

- **Price action** – ideally, price forms a higher low or a bullish candlestick pattern near a support level.
- **Entry trigger** – when all the above conditions align, enter the long trade at the close of the candle that completes the MACD crossover and Williams %R's recovery above -50. Alternatively, more conservative traders may wait for price to break above a minor resistance.

Short (sell) setup

- **Oversold condition** – Williams %R rises above -20 (oversold). Wait until it **drops below -50**, confirming that momentum is turning downward ¹.
- **MACD confirmation** – look for the **MACD line to cross below its signal line** or for the MACD histogram to turn negative ².
- **Price action** – price should form a lower high or bearish candlestick pattern near resistance.
- **Entry trigger** – enter the short trade when the candle closes with both Williams %R and MACD signals aligned.

4 – Stop-loss and exit rules

Component	Long trade	Short trade
Initial stop-loss	Place a stop-loss just below the most recent swing low or a multiple of the Average True Range (e.g., 1.5× ATR) to account for normal volatility. Use the 2 % rule to size the position so that a hit on the stop-loss does not exceed 2 % of trading capital ⁶ .	Place a stop-loss just above the recent swing high or a multiple of the ATR. Adjust the position size using the 2 % rule.
Exit target	Aim for at least a 1:2 risk-reward ratio —for example, if risking ₹10 per share, set the profit target at ₹20 above entry price. Targets can also be set at the next resistance level or using Fibonacci extensions.	Aim for a risk-reward of at least 1:2. Targets can be set at the next support level or a predetermined multiple of risk.
Trailing stop	Once price has moved in your favour by an amount equal to the risk (1× risk), move the stop-loss to break even. Use a trailing stop (e.g., follow the swing lows or a shorter-term moving average) to lock in profits.	Once the price has moved in your favour, trail the stop above successive lower highs or using a moving average to protect profits.
MACD exit signal	Optionally, exit the position when MACD crosses back below its signal line (for long trades) or above the signal line (for shorts). This prevents staying in a trade when momentum reverses ² .	

5 – Additional tips

- **Use multi-time-frame confirmation** – confirm that the daily trend and 4-hour momentum align. Avoid taking trades against strong higher-time-frame trends. Share India's guide highlights that swing traders use 4-hour or daily charts to identify trends and reversal points ⁵.
- **Avoid trading during major announcements** such as RBI policy decisions, Union Budget announcements or quarterly earnings. Volatility can trigger false signals.

- **Position sizing** – calculate the number of shares/lot size to ensure the maximum loss does not exceed 2 % of account equity ⁶. Adjust for volatility: high-beta stocks may require smaller position sizes or wider stops.
- **Maintain a trading journal** – record each trade's entry, exit, reasoning, and outcome to refine the strategy over time.

Example walkthrough

Suppose the daily chart of a Nifty-50 stock (e.g., Reliance Industries) shows the price above its 50-day SMA, indicating a bullish trend. On the 4-hour chart:

1. Williams %R drops below -80 (oversold) and subsequently climbs above -50, indicating momentum is recovering ¹.
2. During the same period, the MACD line crosses above its signal line, showing bullish momentum ².
3. A bullish candlestick pattern appears near a support level. Enter a long position when the candle closes.
4. Place the stop-loss below the recent swing low. If the stop represents ₹10 per share, ensure the position size is such that ₹10 × (number of shares) ≈ 2 % of account equity ⁶.
5. Set a profit target at ₹20 above the entry (risk-reward 1:2). As the price rises, trail the stop below successive 4-hour swing lows to protect gains.

Back-testing and implementation notes

- **Historical testing** – before committing real capital, back-test the strategy on historical price data of Indian stocks. Use multiple market cycles (bull and bear phases) to understand performance across conditions.
- **Paper trading** – implement the strategy in a simulated account to become comfortable with signal recognition and order execution.
- **Broker/platform** – many Indian brokers (e.g., Zerodha, Upstox, Angel One) and charting platforms (TradingView, StockEdge, Strike.money) support Williams %R and MACD indicators. Use them for scanning and alerts. Strike.money emphasises that the combined signals help identify high-probability setups ³.

Caveats

- **No indicator is infallible.** Williams %R and MACD can produce false signals, especially in choppy, sideways markets. Strike.money warns that combining indicators should not be viewed as a guaranteed path to success and that false signals can occur ⁸.
- **Past performance does not guarantee future results.** The strategy should be viewed as a guideline for educational purposes. Market conditions, liquidity and slippage may affect actual results. Traders should consult a qualified financial advisor before implementing the strategy.

This strategy combines the momentum-extreme detection of **Williams %R** with the trend-following confirmation of **MACD**. By aligning signals across multiple time frames and applying disciplined risk management, swing traders in the Indian equity market can attempt to capture short- to medium-term price swings while controlling downside risk.

1 Williams %R | ChartSchool | StockCharts.com

<https://chartschool.stockcharts.com/table-of-contents/technical-indicators-and-overlays/technical-indicators/williams-r>

2 MACD (Moving Average Convergence/Divergence) Oscillator | ChartSchool | StockCharts.com

<https://chartschool.stockcharts.com/table-of-contents/technical-indicators-and-overlays/technical-indicators/macd-moving-average-convergence-divergence-oscillator>

3 **8** Williams %R Indicator: Definition, How it Works, Calculations, Trading, and Advantages

<https://www.strike.money/technical-analysis/williams-r>

4 **5** Best Time Frame for Swing Trading in India - Share India

<https://www.shareindia.com/knowledge-center/trading-account/best-time-frame-for-swing-trading-in-india>

6 **7** 2% Rule in Investing: Manage Risk and Limit Losses with Examples

<https://www.investopedia.com/terms/t/two-percent-rule.asp>