India

REDUCE (no change)

| Consensus ratings*: Buy 5 | Hold 3 | Sell 2 |
|-----------------------------------|--------|---------|
| Current price: | I | Rs1,315 |
| Target price: | | Rs660 |
| Previous target: | | Rs847 |
| Up/downside: | | -49.8% |
| InCred Research / Consensus: | | -58.2% |
| Reuters: | | |
| Bloomberg: | CL | EAN IN |
| Market cap: | US | 694m |
| | Rs13 | 89,729m |
| Average daily turnover: | U | S\$1.3m |
| | Rs | s105.5m |
| Current shares o/s: | | 106.3m |
| Free float: *Source: Bloomberg | | 26.4% |



Axis Mutual Fund Trustee Limited Nomura India Investment Fund

2.6

1.2

Analyst(s)



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Clean Science and Technology Still pricing in dreams - REDUCE

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- Hindered amine light stabilizer (HALS) is perceived as a panacea for Clean Science. However, entry barriers in this business are high. Also, assuming that it will garner a 10% market share in a highly competitive market is misplaced.
- Camlin Fine Sciences (Camlin) has a distinct cost advantage vs. Clean Science in making MEHQ as it has commissioned a vanillin plant (thus wiping out catechol loss). With a 3,000t capacity and the incumbent re-entering a slowing market, it makes price competition inevitable. Clean Science has everything to lose, while Camlin has everything to gain in a price war.
- We see significant disappointment in consensus earnings. We have cut target multiple to 20x FY25F and retained REDUCE rating with a new TP of Rs660.

Entry into HALS business could be impeded by a saturated market

Clean Science and Technology (Clean Science) is planning to foray into the HALS market by initially installing 2,000t capacity, or 2% of global market, and later increase it to 10,000t. The global demand for HALS is ~100,000t, and Asia Pacific is the largest market, with the automotive industry being the largest user. There are at least 34 existing players in the market, and entry barriers for new suppliers are high in segments like industrial coatings, automotive, and consumer plastics. While Clean Science may be able to enter agriculture and construction segments, achieving a 10% market share appears to be a distant dream. Clean Science sees HALS as a potential solution for growth, but it will not offer high margins. It is simply not possible for HALS to make and gross profit using Pt/C catalyst (as stated in the EC document); the company will have to use an alternate catalyst. We believe that Clean Science will make Rs150-200/kg gross profit in HALS.

MEHQ spreads to fall as Camlin's catechol predicament has ended

The chemistry of HQ production is such that if HQ is made using phenol and hydrogen peroxide, the process will produce 55% catechol and 45% HQ. Although MEHQ spread from the HQ route is much higher than that of anisole, due to catechol loss, HQ's effective cost was high and hence, Camlin was not able to undercut Clean Science and capture market share. However, with catechol being utilized to make vanillin, the effective cost of HQ has declined significantly for Camlin. Currently, Clean Science makes Rs450/kg gross spread on MEHQ and Camlin can make the same spread even at a 20% lower MEHQ price. The MEHQ market is small (13,000t) and hence, Camlin's re-entry (it had stopped making MEHQ since last 1 year) with a 3,000t capacity will be negative for all incumbents.

TBHQ will barely make money; retain REDUCE with lower target price

While Clean Science has ventured into TBHQ manufacturing, it is dependent on imported /bought-out HQ to manufacture TBHQ and hence, margins will be at a bare minimum of ~Rs100/kg. Also, TBHQ is mostly sold as a blend with BHA. Camlin took years to master this, as it's an iterative process. May be Clean Science will take less time but still, it cannot happen with 3-4 quarters. We have valued Clean Science at 20x FY25F EPS to arrive at our new target price of Rs660 (Rs847 earlier). Upside risk: Liquidity-driven P/E expansion.

| Financial Summary | Mar-21A | Mar-22A | Mar-23F | Mar-24F | Mar-25F |
|-----------------------------------|----------|---------|---------|---------|---------|
| Revenue (Rsm) | 5,124 | 6,849 | 9,481 | 10,471 | 12,595 |
| Operating EBITDA (Rsm) | 2,590 | 2,999 | 3,694 | 3,928 | 4,576 |
| Net Profit (Rsm) | 1,984 | 2,285 | 2,845 | 3,120 | 3,588 |
| Core EPS (Rs) | 18.7 | 21.5 | 26.8 | 29.4 | 33.8 |
| Core EPS Growth | 42.1% | 15.2% | 24.5% | 9.7% | 15.0% |
| FD Core P/E (x) | 70.48 | 61.19 | 49.14 | 44.81 | 38.96 |
| DPS (Rs) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dividend Yield | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| EV/EBITDA (x) | 53.04 | 45.74 | 36.77 | 34.06 | 28.58 |
| P/FCFE (x) | 3,894.46 | 287.12 | 74.69 | 55.76 | 50.54 |
| Net Gearing | (45.9%) | (34.5%) | (41.9%) | (51.9%) | (60.8%) |
| P/BV (x) | 25.91 | 18.19 | 14.61 | 12.05 | 9.40 |
| ROE | 45.0% | 34.9% | 33.0% | 29.5% | 27.1% |
| % Change In Core EPS Estimates | | | 0.07% | 0.04% | 0.06% |
| InCred Research/Consensus EPS (x) | | | | | |

SOURCE: INCRED RESEARCH, COMPANY REPORTS

Difficult to make money in HALS

HALS is perceived to be a panacea for Clean Science, but it is just another normal chemical where the margins are going to be thin. The foray into TBHQ will be counter-productive for Clean Science as it doesn't have backward integration in hydroquinone. MEHQ is going to face intense competition because of the re-entry of Camlin (with total backward integration and no loss on catechol because of vanillin production).

HALS (hindered amine light stabilizer) - much ado about nothing

While the investors perceive HALS as the next big molecule for Clean Science, this belief is misplaced. HALS is a widely known molecule and has multiple producers globally. The global market size of the molecule is US\$1bn (currently).

Globally, there are multiple producers of HALS ➤

There are several companies that produce HALS, including:

- 1. **BASF**: The company offers a range of HALS under its Tinuvin brand, including Tinuvin 770, Tinuvin 622, and Tinuvin 123.
- 2. **Clariant**: The company produces a variety of HALS under its Hostavin brand, including Hostavin 3070, Hostavin 3326, and Hostavin N30.
- 3. **Solvay:** The company produces HALS under its Cyasorb brand, including Cyasorb UV 3638, Cyasorb THT 833, and Cyasorb THT 3903.
- 4. **Songwon**: The company offers a range of HALS under its Songstab brand, including Songstab CZ-425, and Songstab CZ-950.
- 5. **Chitec:** The company produces HALS under its Chinox brand, including Chinox 168, and Chinox 1010.

These companies are some of the leading producers of HALS, but there are also other manufacturers in the market. The choice of HALS depends on the specific application and performance requirements of the polymer material.

HALS has multiple usage >

Hindered amine light stabilizer (HALS) is used as an additive in polymer materials to improve their resistance to ultraviolet or UV light and weathering. HALS is particularly effective in stabilizing plastics and other polymers that are exposed to sunlight and other environmental factors that can cause degradation and discolouration. Some common uses of HALS include:

- 1. **Packaging materials**: HALS is often added to plastic films and containers used for food packaging to increase their resistance to light and prevent spoilage.
- 2. **Construction materials:** HALS is commonly used in building materials such as PVC pipes, window profiles, and roofing membranes to protect them from the effects of sunlight and other environmental factors.
- 3. **Automotive components**: HALS is used in the manufacture of automotive components such as bumper, trim, and interior parts to improve their durability and prevent fading.
- 4. **Coatings:** HALS is used in coatings for a variety of applications, including automotive finishes, industrial coatings, and wood coatings, to enhance their resistance to UV light and weathering.

Overall, HALS play a critical role in extending the lifespan of polymers and improving their performance in a variety of applications.

There is a standard production technique for manufacturing HALS \blacktriangleright



SOURCE: INCRED RESEARCH, COMPANY REPORTS

SOURCE: INCRED RESEARCH. COMPANY REPORTS

The highest-cost item in the manufacture of HALS is Pt/C catalyst \blacktriangleright

As per the Environmental Clearance or EC document of Clean Science, it uses platinum on activated carbon as a catalyst to make HALS. By its nature itself platinum on activated carbon is a costly catalyst. Please note that in the manufacture of 2, 2, 6, 6-tetramethyl-4-piperidinol, 20gm of Pt/C catalyst is needed per kg of the molecule. Normally, 10gm platinum 5 wt.% on activated carbon costs Rs1,900/gm.

Figure 3: What is the meaning of 10g platinum 5 wt.% on activated carbon?

'10gm platinum 5 wt.% on activated carbon' means there is a mixture of platinum and activated carbon, and the platinum constitutes 5% of the total weight of the mixture. Specifically, the mixture contains 10gm of platinum and a total of 200gm (10gm of platinum + 190gm of activated carbon) to make up a total weight of 200gm, resulting in a 5 wt.% platinum loading.

This type of mixture is often used as a catalyst, where the activated carbon provides a support structure for the platinum and enhances its surface area, allowing for increased catalytic activity. The specific application and performance requirements will dictate the appropriate percentage of platinum on activated carbon needed for the catalyst.

SOURCE: INCRED RESEARCH, COMPANY REPORTS

Is there any other way to manufacture HALS i.e without costly platinum over activated carbon ctalayst? Yes, it's possible with an organic catalyst? ➤

Platinum on activated carbon is not typically used to make HALS. HALS is a type of stabilizer that is used to protect polymers from degradation due to UV radiation. These stabilizers typically contain a hindered amine functional group, which can absorb UV radiation and prevent it from causing damage to the polymer.

The most commonly used catalysts in the production of HALS are organic compounds such as triethanolamine, triethylamine, and pyridine. These compounds are often used in a combination with other reagents and solvents to produce HALS.

While platinum catalysts are widely used in many other types of reactions, they are not typically used in the production of HALS due to their high cost and limited efficacy for this particular application. Instead, organic catalysts are preferred because they can be more easily tailored to produce the desired chemical structure and properties of HALS.

The spread analysis of HALS indicates that Clean Science cannot make money using Pt/C catalyst **>**



How easy is it for Clean Science to penetrate the HALS market? It's very difficult ➤

There are at least 34 incumbent players in this market, and global demand for HALS is ~100,000t. Asia Pacific is the largest market for HALS, and consumer goods followed by automotive industry are the largest consumers of HALS.



Clean Science is planning to install 2,000t capacity (2% of global market) initially ad later on it will increase this to 10,000t (10% of global market). Entry barriers for a new supplier will be very high in segments like industrial coatings, automotive, consumer plastics, etc. May be Clean Science can get an entry into agriculture and construction segments but garnering a 10% market share appears to be a distant dream as of now.

What can be the probable spread for Clean Science using other catalysts? In our view, not more than Rs200/kg >



In MEHQ, margins will fall but in TBHQ, Clean Science can be barely EBITDA positive

Camlin has sorted out its internal problems regarding its di phenol plant stabilization, which means Camlin can get cheap HQ which will boost its gross margin to Rs600/kg in case of MEHQ as against Rs450/kg for Clean Science. TBHQ expansion for Clean Science is beyond comprehension. In a nutshell, margins will fall and earnings growth, if at all, will be anaemic.

in the past > Figure 8: BHA spread has been highly consistent for Clean Figure 9: MEHQ spread has been somewhat volatile but in the Science past few months, it has only trended upwards; however, a minor declining trend is visible MEHQ Spread BHA spread 500 400 **Rs/kg** 800 200 100 0 Apr-19 -Aug-19 -Dec-19 -Apr-20 ⁻ Apr-19 [.] Dec-19 Apr-20 ⁻ Apr-22

800

700

600

500

300

200

100 0

Apr-17

Aug-17

Dec-17

Apr-18

Aug-18 Dec-18 Aug-20 Dec-20

Apr-21 Aug-21

SOURCE: INCRED RESEARCH, COMPANY REPORTS

Apr-22 Aug-22 . Dec-22

Dec-21

Rs/kg 400

MEHQ and BHA have been money spinners for Clean Science

Apr-18 Aug-18

Dec-17

Apr-17 Aug-17 Dec-18

Aug-20 Dec-20 Apr-21

SOURCE: INCRED RESEARCH, COMPANY REPORTS

Aug-21 Dec-21

Aug-19

Aug-22 Dec-22

Camlin will make MEHQ through the alternate route and at a much lower cost \rightarrow



Then why didn't Camlin give pricing competition to Clean Science till date? This was because it was making losses on catechol ➤

The chemistry of HQ production is such that if one produces HQ through phenol and hydrogen peroxide with acetone as a solvent, then the process stabilizes at 55% catechol and 45% HQ. Adjusted for the losses on catechol, Camlin's spread was lower than that of Clean Science. Hence, Camlin would have been able to compete with Clean Science.



What will change now? Camlin has started making vanillin which will recover all catechol costs and make money over and above that >

Till now, the problem for Camlin was the usage of catechol, which was raising the effective production cost of HQ. Moreover, as it was exporting catechol, effective FOB realization was even lower for Camlin. Camlin was subsidizing Chinese vanillin producers but as its capacity has been commissioned, its catechol issue has been resolved. This will also lead to lowering of the effective cost for producing HQ and thus, the spread of Camlin on MEHQ will be much higher than that of Clean Science.

The problem of Camlin was perceived as a technology advantage for Clean Science

As it always happens, facts and reasons get distorted in the market cacophony. The catechol problems, which had tied the hands of Camlin, were perceived as a strategic advantage for Clean Science, which is over now.

We expect MEHQ prices to fall in the coming months >

Camlin has nothing to lose in the MEHQ market, and even if the prices fall by Rs200/kg and the catechol loss becomes zero, it can still make decent margins.



Clean Science can be barely EBITDA positive on TBHQ >



Globally, TBHQ is mostly sold as a blend; Clean Science has a long way to go ➤

TBHQ is mostly sold as a blend (antioxidant blend, Xyendra for Camlin). Blend is just a mixture of chemicals which don't react with each other. Hence, potentially there can be infinite combinations of two chemicals (like TBHQ and BHA which are frequently used as blends). Making of a blend is mostly an iterative process and it takes multiple years before one master the blend (see Camlin's example in Mexico and USA).

InCred Equities

80

60

40

20

0

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BY THE NUMBERS



Profit & Loss

| (Rs mn) | Mar-21A | Mar-22A | Mar-23F | Mar-24F | Mar-25F |
|------------------------------------|---------|---------|---------|---------|---------|
| Total Net Revenues | 5,124 | 6,849 | 9,481 | 10,471 | 12,595 |
| Gross Profit | 3,888 | 4,602 | 5,784 | 6,282 | 7,305 |
| Operating EBITDA | 2,590 | 2,999 | 3,694 | 3,928 | 4,576 |
| Depreciation And Amortisation | (172) | (249) | (263) | (288) | (311) |
| Operating EBIT | 2,417 | 2,750 | 3,431 | 3,640 | 4,265 |
| Financial Income/(Expense) | (1) | (1) | (1) | (1) | (1) |
| Pretax Income/(Loss) from Assoc. | | | | | |
| Non-Operating Income/(Expense) | 256 | 300 | 374 | 533 | 533 |
| Profit Before Tax (pre-EI) | 2,673 | 3,048 | 3,804 | 4,172 | 4,797 |
| Exceptional Items | | | | | |
| Pre-tax Profit | 2,673 | 3,048 | 3,804 | 4,172 | 4,797 |
| Taxation | (689) | (763) | (959) | (1,051) | (1,209) |
| Exceptional Income - post-tax | | | | | |
| Profit After Tax | 1,984 | 2,285 | 2,845 | 3,120 | 3,588 |
| Minority Interests | | | | | |
| Preferred Dividends | | | | | |
| FX Gain/(Loss) - post tax | | | | | |
| Other Adjustments - post-tax | | | | | |
| Net Profit | 1,984 | 2,285 | 2,845 | 3,120 | 3,588 |
| Recurring Net Profit | 1,984 | 2,285 | 2,845 | 3,120 | 3,588 |
| Fully Diluted Recurring Net Profit | 1,984 | 2,285 | 2,845 | 3,120 | 3,588 |

| Cash Flow | | | | | |
|----------------------------------|---------|---------|---------|---------|---------|
| (Rs mn) | Mar-21A | Mar-22A | Mar-23F | Mar-24F | Mar-25F |
| EBITDA | 2,590 | 2,999 | 3,694 | 3,928 | 4,576 |
| Cash Flow from Invt. & Assoc. | | | | | |
| Change In Working Capital | (149) | (1,210) | (536) | (202) | (433) |
| (Incr)/Decr in Total Provisions | | | | | |
| Other Non-Cash (Income)/Expense | (109) | (125) | | | |
| Other Operating Cashflow | 257 | 301 | 374 | 533 | 533 |
| Net Interest (Paid)/Received | (1) | (1) | (1) | (1) | (1) |
| Tax Paid | (659) | (691) | (959) | (1,051) | (1,209) |
| Cashflow From Operations | 1,928 | 1,272 | 2,572 | 3,207 | 3,466 |
| Capex | (844) | (1,397) | (350) | (350) | (350) |
| Disposals Of FAs/subsidiaries | 4 | 1 | | | |
| Acq. Of Subsidiaries/investments | | | | | |
| Other Investing Cashflow | (1,028) | 611 | (350) | (350) | (350) |
| Cash Flow From Investing | (1,868) | (786) | (700) | (700) | (700) |
| Debt Raised/(repaid) | (25) | | | | |
| Proceeds From Issue Of Shares | | | | | |
| Shares Repurchased | | | | | |
| Dividends Paid | (33) | | (711) | (780) | |
| Preferred Dividends | | | | | |
| Other Financing Cashflow | (1) | (1) | | | |
| Cash Flow From Financing | (59) | (1) | (711) | (780) | |
| Total Cash Generated | 2 | 485 | 1,161 | 1,727 | 2,766 |
| Free Cashflow To Equity | 36 | 487 | 1,872 | 2,507 | 2,766 |
| Free Cashflow To Firm | 62 | 488 | 1,873 | 2,508 | 2,767 |

SOURCE: INCRED RESEARCH, COMPANY REPORTS

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BY THE NUMBERS...cont'd

| Balance Sheet | | | | | |
|-------------------------------------|----------|----------|----------|----------|----------|
| (Rs mn) | Mar-21A | Mar-22A | Mar-23F | Mar-24F | Mar-25F |
| Total Cash And Equivalents | 2,478 | 2,658 | 4,012 | 6,022 | 9,050 |
| Total Debtors | 742 | 1,535 | 2,126 | 2,347 | 2,824 |
| Inventories | 529 | 881 | 1,220 | 1,347 | 1,621 |
| Total Other Current Assets | 203 | 628 | 628 | 628 | 628 |
| Total Current Assets | 3,952 | 5,703 | 7,986 | 10,345 | 14,123 |
| Fixed Assets | 2,408 | 3,399 | 3,345 | 3,162 | 2,979 |
| Total Investments | | | | | |
| Intangible Assets | | | | | |
| Total Other Non-Current Assets | 239 | 145 | 145 | 145 | 145 |
| Total Non-current Assets | 2,647 | 3,544 | 3,490 | 3,307 | 3,124 |
| Short-term Debt | | 1 | 1 | 1 | 1 |
| Current Portion of Long-Term Debt | | | | | |
| Total Creditors | 610 | 1,021 | 1,414 | 1,561 | 1,878 |
| Other Current Liabilities | 410 | 327 | 327 | 327 | 327 |
| Total Current Liabilities | 1,020 | 1,349 | 1,742 | 1,890 | 2,206 |
| Total Long-term Debt | 3 | 3 | 3 | 3 | 3 |
| Hybrid Debt - Debt Component | | | | | |
| Total Other Non-Current Liabilities | | | | | |
| Total Non-current Liabilities | 3 | 3 | 3 | 3 | 3 |
| Total Provisions | 179 | 211 | 158 | 158 | 158 |
| Total Liabilities | 1,203 | 1,562 | 1,904 | 2,051 | 2,368 |
| Shareholders Equity | 5,397 | 7,684 | 9,571 | 11,599 | 14,874 |
| Minority Interests | | | | | |
| Total Equity | 5,397 | 7,684 | 9,571 | 11,599 | 14,874 |
| Key Ratios | | | | | |
| | Mar-21A | Mar-22A | Mar-23F | Mar-24F | Mar-25F |
| Revenue Growth | 22.2% | 33.7% | 38.4% | 10.4% | 20.3% |
| Operating EBITDA Growth | 39.8% | 15.8% | 23.2% | 6.3% | 16.5% |
| Operating EBITDA Margin | 50.5% | 43.8% | 39.0% | 37.5% | 36.3% |
| Net Cash Per Share (Rs) | 23.28 | 24.97 | 37.70 | 56.61 | 85.09 |
| BVPS (Rs) | 50.77 | 72.29 | 90.04 | 109.11 | 139.93 |
| Gross Interest Cover | 2,656.58 | 1,870.54 | 3,854.60 | 4,089.42 | 4,792.50 |
| Effective Tax Rate | 25.8% | 25.0% | 25.2% | 25.2% | 25.2% |
| Net Dividend Payout Ratio | | | | | |
| Accounts Receivables Days | 51.31 | 60.69 | 70.47 | 77.96 | 74.93 |
| Inventory Days | 129.20 | 114.56 | 103.71 | 111.87 | 102.40 |
| Accounts Payables Days | 142.77 | 132.49 | 120.17 | 129.62 | 118.65 |
| ROIC (%) | 84.2% | 66.5% | 49.0% | 47.6% | 55.6% |
| ROCE (%) | 53.0% | 40.8% | 38.9% | 33.9% | 31.8% |
| Return On Average Assets | 36.4% | 28.9% | 27.5% | 24.8% | 23.2% |

SOURCE: INCRED RESEARCH, COMPANY REPORTS

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InCred Equities

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|---|----------------------|-----------------------|
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| any other material conflict of interest at the time of publication of the research report or at the time of public appearance | NO | NO |
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| managed or co-managed public offering of securities for the subject company in the last twelve months | NO | NO |
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| been engaged in market making activity for the subject company | NO | NO |

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