Annexure VII to the Board's Report

Conservation of Energy – Measures taken:

1. SCB Bhiwadi

- Savings of 57.42 MWH by Heat recovery in Pre-mix vessel
- Savings of 45.25 MWH by optimizing utility from brine to cooling water
- Savings of 8750 KL water by using ETP treated water
- Savings of ~660 TPA of steam by improving steam trap design

2. SCB Dahej

- Savings of 1547 MWH by operating UPS in Eco-mode
- Savings of 357 MWH by effective utilization of VFD
- Savings of 214 MWH by Power Factor improvement
- Savings of 119 MWH by timer automation in the plant
- Savings of 879 MWH by improving power consumption of chilled water
- Savings of 1117 MWH by flow balancing in brine system
- Savings of 984 MWH by expanding the chilled water network
- Savings of 43 MWH by improving pump utilization by impeller trimming
- Savings of 1434 MWH by cooling tower optimization
- Savings of 500 MWH by optimizing secondary filter operations
- Savings of 595 MWH by eliminating one circuit in chilled water system
- Savings of 907 MWH by optimizing chiller set point

3. FCB Bhiwadi

- Saved 4.8 lacs units of electricity by installing a Pressure Reducing Turbine in CMS Plant
- Saved 1.5 lacs units of electricity by installing variable frequency drives in C1 compressors in CMS plant
- Saved 2.0 lacs units of electricity by installing energy efficient air dryer system in CMS utilities
- Saved 6480 units of electricity by installing a variable frequency drive in drag chain of husk boiler in Captive Power Plant and Circulation Fan in AHF Plant

4. FCB Dahej

- Saved 11.80 lacs units of electricity by installing energy efficient fans in cooling towers
- Saved 0.12 lac units of electricity through installing LDR switch/timer in plant lighting and replacing conventional light with LED light
- Saved 2.15 lacs units of electricity by installing VFD in process gas compressor in CMS2 plant
- Saved 6.57 lacs units of electricity by use of energy efficient motors in R22, CMS-2, TFE/PTFE and F32-2 Plant
- Saved 0.29 lac units of electricity by running Lighting UPS Lighting UPS on 'ECO Mode'
- Saved 4.41 lacs units of electricity by Optimize brine chiller performance by reducing pulley diameter of drive side in TCE-PCE plants
- Saved 5.8 lacs units of electricity by interconnecting F32/125 & PX-2 air compressor with common network
- Saved 8.3 lacs units of electricity by optimizing performance of pumps by smaller diameter impeller and reduced speed through VFD
- Saved 768641 KL fresh water by utilizing RO permeate water for cooling towers make up

5. Performance Films & Foil Business, Indore (SEZ)

- Saving of 4500 m3 water through waste reduction / efficiency improvement
- Saving of 1380 MWH in Resin plant by converting Closed Loop Cooling Tower from series to parallel

6. Performance Films & Foil Business, Indore (DTA-1)

- Saving of 1800 m3 water through waste reduction / efficiency improvement
- Saving of 21.60 MWH through reduction in line 2 TDO power consumption
- Saving of 264 MWH through various energy conservation initiatives in castline

7. Performance Films & Foil Business, Indore (DTA-2)

- Saved 9000 m3 water through waste reduction / efficiency improvement
- Saving of 12 MWH through replacement of chill roll circulation pump with drive
- Saving of 12.96 MWH by using drive in APFC (Automatic Power Factor Correction) Panel room
- Saving of 81 MWH by replacing chilled water with Closed Loop Cooling Tower in Pull Roll Station
- Saving of 207.36 MWH by optimization of Closed Loop Cooling Tower
- Saving of 180 MWH through VFD in chilled water & cooling water pumps
- Saving of 180 MWH through reduction in Erema machine and cutter running
- Saving of 29.28 MWH through various energy conservation initiatives in castline

8. Technical Textile Business – Gwalior

- Savings of 23.40 MWH by installation of Energy efficient chiller.
- Savings of 105 MWH by installation of Energy efficient pumps in textile air washer and DM water plant
- Savings of 61 MWH by installation of Chilled water coils of Quench Air washer

9. Technical Textile Business – Manali

- Savings of 75.62 MWH by installation of "Electronically commuted fan" in AHU-4 and 3A A/W
- Savings of 229.40 MWH by installation of "Direct Evaporative cooling unit" in the textile AHU-3B
- Savings of 387.78 MWH by installation of "energy efficient pump" in N2 plant cooling tower

10. Technical Textile Business – Gummidipoondi

- Savings of 157 MWH by direct power reduction in TO-4 by modifying pulley and belt design.
- Savings of 253.04MT by reduction in LPG consumption in DNTCF by 4 zone processing and improving burner efficiency.
- Savings of 12.16 MT by reduction in LPG consumption in DPTCF by optimizing temperatures in Zone-5 and Zone-6

11. Technical Textile Business – Viralimalai

- Savings of 38.48 MWH by Weft Twister Motor capacity optimization.
- Savings of 12.22 MWH by Installation of Energy efficient Air compressor.
- Savings of 16.84 MWH by Installation of Energy efficient Chiller installation

Capital Investment on Energy Conservation Equipment:

SCB Bhiwadi:

- Installation of dry vacuum pump: ₹ 19.58 Lacs

- Replacement of PSD condenser: ₹ 11.35 Lacs
- Cooling tower efficiency improvement: ₹ 29 Lacs

SCB Dahej:

- Installation of timer automation in plant: ₹ 3.70 Lacs
- Installation of APFC Panel: ₹ 10 Lacs
- Utility flow optimization system: ₹ 82 Lacs
- SSF work: ₹ 4.50 Lacs

TTBM:

- Installation of 660 TR Trane chiller – ₹ 116 Lakh
- Installation of Energy efficient pumps for textile chiller – ₹ 20 Lakh

TTBG:

- Installation of energy efficient chiller – ₹ 175 lacs
- Installation of energy efficient pumps in textile air washers, DM water – ₹ 28 lacs
- Installation of energy efficient pumps in Refrigeration plant-2 – ₹ 41 lacs

TTBT:

- Modification of pulley and belt design for reduction in direct power – ₹ 19.80 lacs

CFT:

- 1150 KW (DC) roof top Solar power project – ₹ 321 lacs

Technology Absorption

SCB:

The Business is actively engaged in development of new molecules and serving the customers through a range of products. Despite a tough environment, the Business continued its journey during the year by introducing new technologies and processes, which are essential for fostering future growth. The Business leveraged its technological base to navigate challenges to address ongoing needs as well as the emerging needs of the market.

The Business has strategically invested in technology absorption initiatives to capitalize on opportunities and to remain relevant in the market. The in-house Research and Development (R&D) team remains dedicated to developing novel and innovative products for the Pharma and Agrochemicals segments, aligning with the evolving needs of our esteemed customers. R&D efforts are concentrated on advanced intermediates, and sustainable technologies, aiming to enhance product quality, lower costs, and increase competitiveness. These efforts have not only enhanced the product portfolio but also improved efficiency while reducing the environmental footprint.

The company maintains its focus on state-of-the-art manufacturing technologies and systems to support production processes and intensify efficiency. This includes the adoption of automation and digitization measures to streamline operations, along with investments in relevant equipment and infrastructure, to sustain the growth trajectory.

Throughout the year, investments were made in technologies that facilitated waste reduction, decreased energy consumption, and enhanced sustainability of the products. Despite the challenges in demand of some products, the Technology team continued to work on new products of the future. Additionally, the Business implemented cost reduction initiatives for established products, to enhance their competitiveness. This was supported by investment in advanced technologies in both dedicated and flexible manufacturing facilities at its Bhiwadi and Dahej locations.

Some of the areas where technology has been absorbed in this period are:

- Finding solutions for complex chemistry and exploring novel routes to introduce cost efficient processes
- Strengthening of systems to secure the Intellectual Property of the Business
- Process enhancements aimed at resource reduction, recycling, and reuse
- Achieving cost-effectiveness in new products and reducing costs of existing products
- Strengthening the value chain by backward integrating some critical raw materials
- Capacity augmentation and debottlenecking in some plants
- Focus on automation to improve process robustness, cost and safety
- Reducing waste generation and solvent usage as well as enhancing process safety

Technology absorption enables the Business to deliver long term value to the stakeholders along with making the Business sustainable. The absorption of new technologies is designed to ensure the product pipeline captures new opportunities and incorporates learnings from previously implemented technologies, thereby reducing the time to market for new opportunities. The Business remains committed to the journey of continuous technological innovation and advancement to meet the evolving needs of the customers and contribute to a sustainable future. This journey is also vital to ensure the company remains ahead on the technology curve to maintain its leadership position.

FCB:

In case of imported technology (imported during the last three years reckoned from the beginning of the financial year)-

(a) the details of technology imported - Technology imported for making Anhydrous Hydrogen Floride

(b) the year of import - November 2021 to Feb 2025

(c) whether the technology been fully absorbed – Yes, fully absorbed

Foreign exchange earnings and outgo

(₹ in Crores)

Particulars	Year ended March 31, 2024	Year ended March 31, 2025
Foreign Exchange Earnings	4,845.64	4,570.83
Foreign Exchange outgo	2,712.75	2,883.03
Net Foreign Exchange Earnings	2,132.89	1,687.80

For and on Behalf of the Board

Ashish Bharat Ram
Chairman & Managing Director
(DIN – 00671567)

Date: May 12, 2025
Place: Gurugram