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# DHARAMPAL SATYAPAL GROUP EXECUTES LARGE RETROFIT PROJECT WITH NOVENCO® ZERAX® FANS



## LEADING FMCG COMPANY

The Dharampal Satyapal Group (DS Group) is a Multi-Business Corporation and one of the leading Fast Moving Consumer Goods (FMCG) conglomerate with strong Indian and International presence.

The Group's portfolio is extensive and diverse with presence in Mouth Freshener, Food and Beverage, Confectionery, Hospitality, Agri, Luxury Retail, Tobacco businesses and also other investments.

The company is committed to create premium quality products and has built successful brands across many categories.

The DS Group Headquarters (DSHQ), situated at NCR houses the Corporate office, an R&D centre and state of art manufacturing facilities.

It has been awarded Leadership in Energy

and Environmental Design (LEED) Platinum certification, under the US Green Building Council (USGBC) existing building; Operation and Maintenance (O&M) programme version 4.0 for being a green building. DSHQ is the leader amongst all LEED v4 O&M existing buildings worldwide for two consecutive years and still holds the highest number of credits amongst existing green building projects clearly making it a global leader.

## RETROFIT TO THE LATEST AHU TECHNOLOGY

The DS Group has recently performed a large retrofit project of the air handling units (AHUs) at the headquarters in Noida. The retrofit comprised replacement of 40 out-dated centrifugal fans with highly effi-

cient, state-of-the-art NOVENCO® ZerAx® fans.

The retrofit project is part of the company's Sustainable Development journey, which aligns their business, social and environmental objectives to make significant contribution to the society at large.



Highly efficient NOVENCO® ZerAx® axial fan

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The initial phase of the project included Proof of Concept (PoC) - in the form of replacing a single existing centrifugal fan with a ZerAx fan.

The purpose of this pilot project was to test the ZerAx and to witness the energy savings first hand, when replacing an old centrifugal fan with a modern and advanced ZerAx axial fan.

Prior to the retrofit, the performance of one of the existing AHUs with centrifugal fan installed was measured by our **Authorised Channel Partner AIR TECHNO INDIA PVT. LTD.** to establish the baseline.

The same measurements were then made post-retrofit. The results showed that for the same air flow rate the ZerAx fan had reduced the energy consumption by 55%. Once again, the ZerAx fans proved to be on the technological forefront with the highest efficiency as well as invaluable contribution to certification programmes of sustainable buildings.

## FACTS

- THE LATEST AHU TECHNOLOGY
- ENERGY SAVINGS OF 55%
- EASY PLUG-AND-PLAY RETROFIT SOLUTION
- LOW SOUND LEVELS



Mr. Ramesh Kumar,  
Senior General Manager,  
Head for Administration  
and Facilities, DS Group



The DS Group Headquarters (DSHQ), a LEED Platinum certified green building is the leader amongst all LEED v4 O&M existing Buildings worldwide for two consecutive years and still holds the

highest number of credits amongst existing green building projects across the Globe.

We have a goal to become Zero Carbon facility by the end of 2023.

In our quest for the same, we come across ZerAx axial fans technology, which has certain benefits over the conventional centrifugal blowers such as high energy savings, lesser ROI period, improved system efficiency etc.

This product also contributes in reducing carbon emission and is certified by the The Confederation of Indian Industry (CII) as a green product.

We conducted a sample retrofit pilot project at our premises to understand the projected energy savings and the results were encouraging.

We are delighted to share that we managed to reduce substantial energy consumption, to the tune of > 55% in our AHU systems after 1st phase of implementation.

We are satisfied with the outcome and would like to implement the 2nd phase in our other offices.



One of the 40 NOVENCO ZerAx EC+ fan installed at the DS Groups' headquarters as a plug-and-play easy retrofit

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## A GREEN WIN-WIN SOLUTION

As sustainability is at the core of the DS Group's mission and it's commitment on strategic integration of sustainability into the organizational Systems and Processes. This large retrofit project not only saves a significant amount of electrical power and reduces carbon emissions, it also demonstrates the company's commitment to the green transition.

This, together with the fact that the NOVENCO ZerAx fan is 98% recyclable after a product lifetime of 20+ years, means that the AHUs installed at the DS Groups' headquarters are now truly environmental friendly. A pure and green win-win solution, for the DS Group and the environment.



Mr. Vikash Mishra,  
Deputy General Manager,  
Technical Facility  
Management, DS Group



We found the installation team of Air techno India Pvt Ltd highly professional and they carried the installation as per the guidelines and

mutually agreed schedule. As this was a retrofit technology, installation was done during no-operational hours for smooth execution. The system designs are extremely user friendly and the commissioning of these has the following benefits.



- Easy and customised design of the fans was an important positive point for proceeding ahead with retrofitting with plug and play features.

- These fans are compatible with our existing drives and provide better overall system efficiency.

- We managed to use the existing cabling and other accessories in the system without any modification.

- Entire system is weight less as compared to the conventional fans hence no additional structural requirements are needed saving additional costs.

- Post installation, the activities were smooth as the team had the necessary equipment and tools.



Horizontal or vertical installed in AHU, as for this large retrofit project, NOVENCO ZerAx EC+ fans efficiencies are consistently the highest available on the market