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• YOGESH MISHRA, EXECUTIVE DIRECTOR, SUPPLY CHAIN, HINDUSTAN UNILEVER

## 'Nano units helping us bridge service gap for new-age channels'

Hindustan Unilever (HUL), the country's largest consumer goods company, runs a network of 28 factories and 35 warehouses, prod ucing over 75 billion units across 2,000+ products annually. This large operation is fuelled by advanced automation, digital analytics and artificial intelligence (AI) to ensure minimal disruptions. Yogesh Mishra, executive director, supply chain, at HUL, talks to Viveat Susan Pinto about the focus on digital fulfilment centres, utilisation of nano factories to produce in small hatches and how Project Nakshatra is aiding

HUL has often said that what is good for India is good for the company. How does this play out in your supply chain operations? We have a collaborative and customer-centric approach to supply chain management. We have a multi-category multi-format distributed network comprising 28 own factories and over 50

agility.Excerpts:

collaborative manufacturing units producing more than 75 billion units annually. We also strive to be gender-inclusive—for instance, one of our factories in Bundelkhand has over 40% women in the workforce. We are looking to take our female workforce numbers up in our other factories too. At the same time, we constantly strive to be innovative and optimise our opperations.

What is Project Nakshatra and how is it helping your supply chain stay nimble? ject Nakshatra is our multi-year network transformation project which we have undertaken to reset our manufacturing and distribution network. As part of this, we aim to create factories closer to demand centres and co-locating suppliers and warehouses, so that we can serve our customers faster and at a lower cost. This also helps us drive agility and resilience in our supply chain. With Nakshatra, we aim to cut lead times and optimise our logistics network effectively. We

started Nakshatra with the home and personal care portfolio in 2020 and the execution is now complete. This has now been expanded to other parts, including foods.

Howare nano factories helping you crunch production timelines? New-age channels like e-commerce are growing much faster than traditional ones. These channels require a wide assortment with very lowvolume per pack. However, traditional manufacturing systems are designed for economies of scale This results in lower responsiveness and hence, isn't equipped to serve these new channels. Hence, we created a nano factory which is an exact scaled-down version of our large-scale factories. The nano factories help us bridge this service gap for new-age channels by making more products frequently in smaller batches. There are currently seven nano factories running in HUL. Between them. they produce over 500

products and have supported mor than 100+ innovations.

What is Samadhan platform all about? How are you separating demand capture and fulfilment with this?

Digitising our transportation, fulfilment, and customer service ecosystem is part of the digital foundation that we've laid out. In

ystem is part of the digital adation that we've laid out. In the front end, to unlock next-day delivery, we have created automated digital next-gen fulfilment centres called Sama-

dhan, where we have created an automated pick-pack-sort capability to service retailers the next day. We have successfully piloted Samadhan in Chennai and are expanding this to the Mumbai region.

How are you using AI and machine learning (ML) to modernise operations? We have set up a strong digital foundation across our factories through a cybersecure infrastructure and IOT-enabled sensors for real-time data capturing. We have several digital solutions in safety, energy, quality, and produc-tivity. With the foundation layer fully established across our network, we have now built a layer of intelligence on top of these use cases by leveraging AI. Our planning ecosystem, for instance, is powered by AI/ML-led demand forecasting which generates real-time scenarios through which we're able to achieve a high forecast accuracy.

Within sourcing, we are driving competitive buying through an advanced ML- WITH PROJECT
NAKSHATRA, WE AIM
TO CUT LEAD TIMES
AND OPTIMISE OUR
LOGISTICS NETWORK
EFFECTIVELY

enabled solution called Bullseye.
Within manufacturing, we are
progressing with speed in
combining our AI- powered digital
foundation with advanced physical
automation to take the next big leap
towards establishing 'dark
operations'. We are also building the
SC Nerve Centre which will integrate
and process the data from these use
cases to drive end-to-end and faster
decisions in improving efficiencies
and increasing supply chain
resilience in case of disruption.

What are dark operations?
Dark operations are production
lines that run with minimal human
intervention using advanced digital
tech and automation. These lines

provide automated insights and recommendations to our control room operators to drive efficiency while ensuring superior product quality. We have established a few dark lines in some factories and plan to expand this in the coming years.

Howare you decarbonising your supply chain?

We are on track to achieve Unilever's global target of cutting greenhouse gas emissions from our operations (known as scope 1 and 2 emissions) by 100% by 2030 (against a 2015 baseline). We currently utilise green energy for over 96% of our operations. We've also made investments in solar and wind power infra...

The bigger part, scope 3 emissions, is associated with the production of raw materials and ingredients we purchase from suppliers. As such, to reach our net zero target by 2039, we must work with suppliers to help them take action within their own operations and value chains. We are doing this by asking our key supply partners to be part of our Supplier Climate Programme.