News Release

LANXESS showcases innovative water treatment in line with the trends at Water Expo 2020, Chennai

LANXESS India Private Ltd
CIN:
U24119MH2004PTC158377

LANXESS House,
Plot no A-162, A-163, A-164,
Road No 27, Wagle Estate,
Opp.ITI College,
MIDC, Thane (west) – 400604
Phone: +91 22 2587 1000 (B)
Telefax: +91 22 25826742
www.lanxess.in
Email: infoindia@lanxess.com

Sunder Rajan
General Manager and Head of Corporate Communications
Phone: +91 22 2587 1540 (D)
sunder.rajan@lanxess.com

Vinay Shrivastav
Senior Manager – Corporate Communications
Phone: +91 22 2587 1553 (D)
vinay.shrivastav@lanxess.com

Chennai, February 13, 2020 – Specialty chemicals company LANXESS is presenting its comprehensive range of products and services relating to process water, drinking water and wastewater at Water Today's Water Expo in Chennai from 13 - 15 February, 2020. A custom selection of products and technologies is often vital. In many cases, optimum results can be achieved only with the smart combination of several technologies. LANXESS has many years of combined expertise for this in the areas of ion exchange, adsorbers, reverse osmosis and ultrafiltration.

Current trends such as electromobility provide LPT's operations with additional impetus. Recently implemented improvements to processing technology and process efficiency in the production of ion exchange resins in Leverkusen are already bearing fruit. Thanks to the resulting capacity enhancement, LANXESS is able to successfully satisfy the recent rise in demand from the battery industry. Special grade ion exchange resins from the Lewatit product range are also being produced at the plant in Jhagadia for use in the food industry.

"Innovative solutions for water treatment are gaining in importance in an attempt to use this resource responsibly. LANXESS can make valuable contributions to this in all application areas," emphasizes Prakash Shanmugam, Head - Liquid Purification Technologies (LPT) business unit at LANXESS India.

High Performance (HP) RO membrane elements a market success

The range of Lewabrane high performance (HP) RO membrane elements for energy-efficient brackish water treatment, which was recently launched on the market, is already well established. On the

basis of an optimized membrane structure, they offer improved rejection with a higher flux rate compared with standard elements. “We are seeing very healthy demand, particularly in the conservative European market,” explains Shanmugam. On the whole, he is also contented with the market development for reverse osmosis elements and looks into the future with confidence.

The company’s involvement in the Multi-ReUse research project shows just how important reverse osmosis is to LANXESS, especially for wastewater treatment. One aim in this context is to take suitable action to minimize fouling and thereby ensure stable operation in the long term. The project also showed that micro pollutants such as pesticides, pharmaceuticals and contrast agents are safely separated through reverse osmosis.

On the basis of a sales partnership with French company Polymem SA, which was agreed in 2018, LANXESS has added Gigamem ultrafiltration elements to its portfolio for water treatment. The first projects to result from this cooperation have been successfully launched in the Mediterranean region.

Reverse osmosis and ion exchange hand in hand

The combination of reverse osmosis and ion exchange opens up new areas of application for water treatment, for which a single technology would be no match. For example, after an initial filtration step, pig manure is concentrated via reverse osmosis. Ammonium ions can then be removed from the highly alkaline permeate using a cation exchanger and the acidic medium subsequently neutralized with a mixed bed exchanger. The water purified in this way can usually be discharged directly into surface water. This process is already being used successfully in the Benelux countries.

The current version of the LewaPlus software developed by LANXESS that is used for designing combined systems of this kind now also features a cost module for ion exchange, so that – in

LANXESS India Private Ltd
CIN:
U24119MH2004PTC158377

LANXESS House,
Plot no A-162, A-163, A-164,
Road No 27, Wagle Estate,
Opp.ITI College,
MIDC, Thane (west) – 400604
Phone: +91 22 2587 1000 (B)
Telefax: +91 22 25826742
www.lanxess.in
Email: infoindia@lanxess.com

Sunder Rajan
General Manager and Head of Corporate Communications
Phone: +91 22 2587 1540 (D)
sunder.rajan@lanxess.com

Vinay Shrivastav
Senior Manager – Corporate Communications
Phone: +91 22 2587 1553 (D)
vinay.shrivastav@lanxess.com

combination with the integrated cost calculation for reverse osmosis – it is easy to estimate the total investment costs and operating costs.

Bayoxide Synthetic Iron Oxide Adsorber - For Arsenic, Phosphate and Other heavy metal removal

Bayoxide® is a granular iron oxide media specifically designed for use in technical applications in which it serves as an effective filter adsorbent for removal of various species, especially arsenic. It is a crystalline nanoparticular α-Ferric oxide hydroxide with a very high surface area and adsorption capacity. At the same time, it also offers high abrasion stability.

Bayoxide® E 33: Arsenic pollution is one of the most dangerous forms of drinking water contamination. Some very high concentrations of arsenic occur in the groundwater in many regions of the United States, South America and Asia. Elevated arsenic levels are also found in Europe – in the United Kingdom, for example. Using Bayoxide iron oxide adsorbers, LANXESS is providing an efficient technology for the removal of arsenic from drinking water and wastewater. The core of the Bayoxide system is a solid bed of iron oxide beads. The beads have finely structured surfaces that adsorb pollutants when contaminated water flows over them.

Bayoxide® E IN 20 is applied for purification of non-drinking water sources in a simple passive pump-and-treat system applying the technology of fixed bed adsorption. When water from a source is pumped through a vessel or a series of vessels containing Bayoxide® E IN 20, it passes through a fixed bed of the media where the relevant species is adsorbed quickly and selectively.

The LPT business unit

The LPT business unit is part of the LANXESS Performance Chemicals segment and offers a comprehensive range of tailor-made

LANXESS India Private Ltd
CIN:
U24119MH2004PTC158377

LANXESS House,
Plot no A-162, A-163, A-164,
Road No 27, Wagle Estate,
Opp.ITI College,
MIDC, Thane (west) – 400604
Phone: +91 22 2587 1000 (B)
Telefax: +91 22 25826742
www.lanxess.in
Email: infoindia@lanxess.com

Sunder Rajan
General Manager and Head of Corporate Communications
Phone: +91 22 2587 1540 (D)
sunder.rajan@lanxess.com

Vinay Shrivastav
Senior Manager – Corporate Communications
Phone: +91 22 2587 1553 (D)
vinay.shrivastav@lanxess.com

ion exchange resins and reverse osmosis and ultrafiltration membrane elements for various applications in the field of water treatment. You can find more detailed information about products from the business unit on the website at http://lpt.lanxess.com.

LANXESS is present at Hall 2 Booth A5 at the Water Expo.

LANXESS is a leading specialty chemicals company with sales of EUR 7.2 billion in 2018. The company currently has about 15,500 employees in 33 countries and is represented at 58 production sites worldwide. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, additives, specialty chemicals and plastics. LANXESS is listed in the leading sustainability indices Dow Jones Sustainability Index (DJSI World and Europe) and FTSE4Good.

Forward-Looking Statements
This company release contains certain forward-looking statements, including assumptions, opinions, expectations and views of the company or cited from third party sources. Various known and unknown risks, uncertainties and other factors could cause the actual results, financial position, development or performance of LANXESS AG to differ materially from the estimations expressed or implied herein. LANXESS AG does not guarantee that the assumptions underlying such forward-looking statements are free from errors nor does it accept any responsibility for the future accuracy of the opinions expressed in this presentation or the actual occurrence of the forecast developments. No representation or warranty (expressed or implied) is made as to, and no reliance should be placed on, any information, estimates, targets and opinions, contained herein, and no liability whatsoever is accepted as to any errors, omissions or misstatements contained herein, and accordingly, no representative of LANXESS AG or any of its affiliated companies or any of such person's officers, directors or employees accept any liability whatsoever arising directly or indirectly from the use of this document.

Information for editors:
All LANXESS news releases and their accompanying photos can be found at http://press.lanxess.com. Recent photos of the Board of Management and other LANXESS image material are available at http://photos.lanxess.com.

You can find further information concerning LANXESS chemistry in our WebMagazine at http://webmagazine.lanxess.com.

Follow us on Twitter, Facebook, Linkedin and YouTube:

http://www.twitter.com/LANXESS
http://www.facebook.com/LANXESS
http://www.linkedin.com/company/lanxess
http://www.youtube.com/lanxess

LANXESS India Private Ltd
CIN:
U24119MH2004PTC158377

LANXESS House,
Plot no A-162, A-163, A-164,
Road No 27, Wagle Estate,
Opp.ITI College,
MIDC, Thane (west) – 400604
Phone: +91 22 2587 1000 (B)
Telefax: +91 22 25826742
www.lanxess.in
Email: infoindia@lanxess.com

Sunder Rajan
General Manager and Head of Corporate Communications
Phone: +91 22 2587 1540 (D)
sunder.rajan@lanxess.com

Vinay Shrivastav
Senior Manager – Corporate Communications
Phone: +91 22 2587 1553 (D)
vinay.shrivastav@lanxess.com