GREEN TECH CLUSTERS: SUSTAINABLE BUILDINGS, INDUSTRIAL PROCESSES AND FOOD & AGRI PROCESSING

NANO-CATALOGUE





MINISTRY OF FOREIGN AFFAIRS OF DENMARK The Trade Council Property of The Trade Council - Bangladesh/ Royal Danish Embassy, Dhaka

Foreword

As Bangladesh and Denmark embrace over 50 years of successful partnerships and synergies, Denmark looks to offer new and innovative technologies for a greener and cleaner future for both the nations.

This 2nd edition of the nano e-catalogue is a continued effort to make available to interested stakeholders in Bangladesh a part of the greentech cluster of Danish technologies for sustainable buildings, industrial processes and advancements in the food & agriculture sector.

This nano e-catalogue has been compiled and published by The Trade Council, Embassy of Denmark in Bangladesh.

Dhaka May 2022

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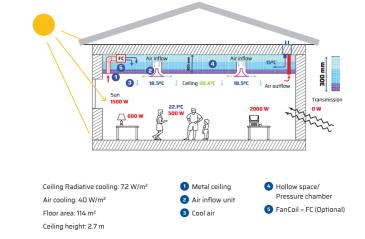


AJS Ventilation is a joint venture between the Danish JS Ventilation and the Bangladeshi ABG Interlinks, established in April 2018. AJS Ventilation brings Danish technology in Bangladesh with a fully trained workforce. ABG Interlinks Ltd. and JS Ventilation's partnership, is offering a fresh and very focused approach to the market of ventilation equipment. It's a partnership accompanied by Danish know how and Bengali competencies.

With the use of natural laws and smart design, AJS Ventilation has invented a combined cooled ceiling and ventilation solution, *Cool Ceiling*, which can reduce the building height or provide space for more floors when constructing multi-story buildings. This means: no ducts, design freedom, shorter construction time, no maintenance, and it contributes to lower energy consumption.













Organisation: Hempel Paints Pvt. Ltd. Website: www.hempel.com/en-sea Address: Hempel Paints India Pvt Ltd., Office number 2: 4th Floor, B Wing, Art Guild House, Kurla, Mumbai 400 070, India Point of Contact: Anamitra Basu, Distribution Manager M +919674373882 Email: anaa@hempel.com

Hempel develops and manufactures coating solutions for the protective, decorative, marine, container, industrial and yacht segments. Across the globe, Hempel products protect, beautify and improve the performance of customers' most valuable assets. At Hempel, the purpose is to shape a brighter future with sustainable coating solutions. With the firm belief that success will follow if sustainability is at the core, Hempel deems that not only is it the right thing to do, it will strengthen Hempel's competitive position, make them more resilient and reduce risk.

Hempel was founded in Copenhagen, Denmark in 1915. It is proudly owned by the Hempel Foundation, which ensures a solid economic base for the Hempel Group and supports cultural, social, humanitarian and scientific purposes around the world.









Organisation: Rockwool Group Website: <u>www.rockwool.com/in</u>

Address: Wing B-2, 2nd Floor, Unit No. 206, Boomerang, Near Chandivali Film Studio, Chandivali Farm Road, Andheri (E), Mumbai – 400072, Maharashtra, India CIN: U26900GJ2010FTC059332 M +91 98 4504 3646 Point of Contact: Debapratim Dinda, Marketing Manager-India, Regional Technical Manager- Asia Email: deb@rockwool.com

The Rockwool Group-a Danish multinational is more than 80 years old in the insulation business and operates 47 manufacturing facilities and have a global network of sales offices, distributors and partners across the world. Ever since it was founded, ROCKWOOL has had one singleminded purpose: Releasing Natural Power of Stone to enrich modern living. All Rockwool Stone Wool insulation products possess outstanding fire, acoustic and thermal insulation properties as well as a lifelong durability, making it the sustainable and cost-effective choice. Roxul-Rockwool Technical Insulation India Private Ltd., is a fully owned subsidiary of Rockwool International and has state of the art manufacturing facility in Gujarat-India with an annual capacity of 30,000 metric tons of high quality stone wool insulation for building and industrial requirement.







SolarLab

Organisation: Solarlab.dk ApS Website: https://solarlab.dk Address: Industrivej 8, 8260 Viby J - Aarhus - Denmark Point of Contact: Anders Smith M +45 3028 1162 T +4560178031 Email: info@solarlab.dk

SolarLab designs and produce bespoke electricity producing facades that invisibly integrate high-efficiency PV on both new buildings and renovations. Available as ventilated rain-screens, curtain-walls and louvered solutions they replace traditional claddings with a lowmaintenance, durable and dynamic material and positive financial and environmental return on investment Solar facades go beyond BIPV and provide cost and carbon free electricity that ensure resiliency without sacrificing rooftops, so they can be utilized for social activities, rainwater management or micro-climate and biodiversity supporting green roofs.

Solarlab provide design freedom to panellise a facade with a non-fading and self-cleaning material to ensure a long life and seamless integration. We produce our solar-facades in Denmark and engineer them for longevity, resiliency and a circular resource economy.















Organisation: Nordicco A/S Website: www.Nordicco.eu Address: Karetmagervej 23, 7000 Fredericia, Denmark Point of Contact: Mathias Thomsen M +45 29 89 75 64 Email: Mathias@nordicco.eu

Nordicco is a Danish manufacturer of large HVLS fans that help factories and large buildings keep their cooling costs down, prevent heat stress, increase worker comfort and raise productivity levels throughout. It is a climate-friendly way to improve indoor climate, lower energy consumption, reduce CO2 emissions and eliminate the spread of airborne pathogens such as bacteria and ciruses

Nordicco is based in Denmark, and rely on Scandinavian design and material components to produce and manufacture their solutions.











ENGINEERING TOMORROW

Organisation: Danfoss Website: www.danfoss.com/en-in/ Address: Plot No. A-19/2, Sipcot Industrial Growth Centre, Oragadam, Kanchipuram District, Tamil Nadu 631604, India T 000 800 100 9289 Point of Contact: danfoss.india@danfoss.com

Danfoss engineers solutions that increase machine productivity, reduce emissions, lower energy consumption and enable electrification. We deliver value to our customers as a global technology partner with global leading positions, deep application knowledge and sustainable innovation in our core businesses:

• Danfoss Climate Solutions – Sustainable heating and cooling solutions for buildings, cold chains, industry, and infrastructure

• Danfoss Drives – Clean-energy solutions such as AC drives, power semiconductor modules, and electrification in automotive and various industries

• Danfoss Power Solutions – Full solutions capabilities in mobile and industrial hydraulics, fluid conveyance, electrification, and software solutions

Our innovative engineering dates back to 1933. Danfoss is family-owned, employing more than 40,000 people, serving customers in more than 100 countries through a global footprint of 95 factories.





Drives



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©Nilfisk

Organisation: Nilfisk India Pvt. Ltd. Website: www.nilfisk.com Address: 2/2, 2nd floor, Amaya Atrium, Langford Rd, Langford Town, Bengaluru, Karnataka 560025, India. **Dealer Address:** Nextech Solutions Limited. Suit 3B, Plot 01, Road 04, Gulshan Pragati Sharani Link Road, Mid. Badda., Gulshan 1, Dhaka 1212, Bangladesh Point of Contact: Rajiv Bhatia, Mr. Rajiv Bhatia, Country Manager & Director India, Cell: Tel: +91 80 4127 6510, 4851 7511 **M**+91 9920042065 **Email**: rbhatia@nilfisk.com

Nilfisk is an established leader in cleaning technology; our products are designed by some of the most knowledgeable experts in the industry, and our solutions ensure a high hygienic standard across a variety of applications. We are committed to a cleaner world, and we are driven by our passion for innovation, knowledge, sustainability, and transformative technologies. In recent years, Nilfisk has embarked on a strategic journey. We set out to transform the company to sustain our position as a leader in the professional cleaning industry and prepare our organization to compete in the new era of intelligent cleaning. As a trusted partner when it comes to equipment and services anywhere in the world, we make it our business to help our customers maximize their performance.

Our specialty product line includes - commercial, industrial floor cleaning equipment, maintenance equipment, cleaning equipment, floorcare, autonomous cleaning solutions, consumer goods, and high pressure washers.



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Combination Machines

ONII

Food Pharma and OEM

Autonomous Floor Cleaning



Oil and Shavings VAC



Scrubber



Single Phase Wet & **Dry Vaccum Cleaner**





Sweeper



Organisation: FLSmidth Private Limited **Website:** <u>www.flsmidth.com</u>

Address: FLSmidth House, 34, Egatoor, Kelambakkam (Rajiv Gandhi Salai - Chennai), Tamilnadu 603 103 Point of Contact: Sheeba Priya P P, Regional Marketing Manager, Sub-Saharan Africa, Middle East & South Asia T +91 44 27411000 / 47481000 / 47481008 Email: indiainfo@flsmidth.com

Sustainable productivity through innovation

FLSmidth provides sustainable productivity to the global mining and cement industries. We deliver market-leading engineering, equipment and service solutions that enable our customers to improve performance, drive down costs and reduce environmental impact. Our operations span the globe and we are close to ~10,100 employees, present in more than 60 countries. In 2021, FLSmidth generated revenue of DKK 17.6 billion. MissionZero is our sustainability ambition towards zero emissions in mining and cement by 2030. FLSmidth works within fully validated Science-Based Targets, our commitment to keep global warming below 1.5°C and to becoming carbon neutral in our own operations by 2030.



Thickeners



Cross-Bar Cooler



FerroCer-Impact-Wear-Panels



Mill liner







Organisation: Firexpress A/S Website: www.firexpress.com Address: Lille Blødevej 3, 3600 Frederikssund, Denmark Point of Contact: Henrik Naaby, Managing Director T +45 4731 3045 M +45 2124 0545 Email: firexpress@firexpress.com

Firexpress produce First Strike Firefighting concepts, designed to give an immediate first strike capability on a wide range of different types of fires - from deep-seated Class A fires to difficult class B and electrical fires. Firexpress's products use the combined micro-drops/foam technology which enable the user to perform maximum firefighting with minimum use of water and foam under due consideration of the environment.

The product portfolio contains a range of systems able to satisfy any need for mobile and stationary firefighting equipment. Constantly improving and developing new designs for customers' special requirements, Firexpress has customers in more than 40 countries world-wide.





Mobile Units

Tank Unit



50L Trolley





Motorbike



UTV



ATV







Organisation: DEKO A/S Website: www.deko.com Address: DEKO partitions Asia, Kuala Lumpur, Malaysia Point of Contact: Jimmy Rahim, CEO T +45 2851 6999 Email: jr@deko.com

For more than 50 years DEKO has developed products for interior fitting out, and today DEKO is global leader in the design, manufacturing, and supply of sustainable partitioning systems for commercial and industrial buildings.

Our systems range from traditional solid demountable partitions to single and double glazed partitions with superior acoustic performance as well as fire rating up to 120 minutes.

DEKO solutions are distributed from geographically well located hubs and installed by a network of highly skilled and dedicated partners in more than 50 countries worldwide













Organisation: Grundfos Website: www.grundfos.com Address: Grundfos Holding A/S Poul Due Jensens vej 7 8850 Bjerringbro, Denmark In Bangladesh : C/o Embassy of Denmark, Bay's Edgewater, Plot No: NE(N) 12, 6th Floor, North Avenue, Gulshan 2, Dhaka 1212, Bangladesh Point of Contact: Mahmudul Hasan Oyon Sales Consultant M +8801918170079 Email: moyon@grundfos.com



Hydro Multi- E Pumps

CRE Pump

GRUNDFOS is a global water technology company committed to pioneering solutions to the world's water and climate challenges and improving the quality of life for people. We are an organization with local mind set in understanding customer needs and offering our solutions. Sustainability is in everything we do tirelessly to improve water and energy efficiency and believe in making a difference. Grundfos offers application specific solution, encompassing efficiency, reliability and customized offerings for every application in an industry.









Organisation: Aminodan Group Website: www.aminodangroup.dk Address: The Aminodan Group, Jens Digets Vej 16, 9990 Skagen, Denmark Point of Contact: Claudiu Vasilescu, Sales Manager M +4552227122 Email: claudiu.vasilescu@aminodangroup.dk

Aminodan is a company specialized in wastewater treatment for fulfilling the requirements for releasing the water into sewage system or into a natural emissary. For this, we are using Aminodan DAC and Aminodan AMB technology.

Aminodan has delivered complete treatments systems until now up to a capacity of 1.400 m3/h (33.600 m3/day) and has an international presence. Aminodan already now have projects in Bangladesh in textile industry and industrial parks.

Aminodan systems are custom made and designed in Denmark.

Aminodan has more than 55 years of experience in wastewater treatment.













Organisation: ecoBETA A/S Website: www.ecobeta.com Address: ecoBETA A/S, Staunvej 29, 9240 Nibe Point of Contact: Lisbeth Sylvestre, Managing Director M +45 9835 5700 Email: ecobeta@ecobeta.dk

ecoBETA addresses water shortages with affordable high quality products. Instead of vast investments into the infrastructure, ecoBETA offers economical products for the final part of the water supply chain – the end customer. ecoBETA's signature product is a dual-flush toilet valve with ONLY 1 button. The ratio of small flushes at public places and businesses goes up to 95%. Hence, having conventional dual-flush toilet valves with dual-button causes only confusion and misuse of the big flush. By applying ecoBETA, we guarantee a minimum of 25% water conservation after installation overall and up to 50 % of water conservation per flush.



Europa

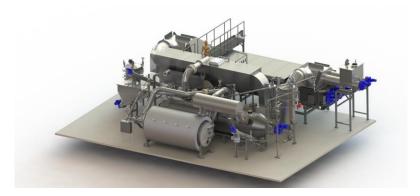






Organisation: AquaGreen Website: www.aquagreen.dk Address: Risø Huse 50, 4000 Roskilde, Denmark Point of Contact: Andreas N. Pedersen **Business Development Manager M** +45 5363 9571 Email: annp@aquagreen.dk

AquaGreen is a cleantech company that develops new and innovative solutions for turning biomass like wastewater sludge into resources. Our groundbreaking technology consists of an integrated stream drying and pyrolysis unit, which has been developed and patented in close collaboration with the Technical University of Denmark. The outcome is a highly advanced and scalable solution that allows for turning biomass like wastewater sludge, manure and horticultural waste into biochar and renewable energy while eliminating organic pollutants. The benefits are numerous and include eliminate greenhouse gas emissions and capture CO2, reduce pollution and health risks, recirculate nutrients, recover energy and more.







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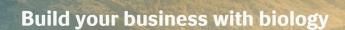


Organisation: Novozymes South Asia Pvt. Ltd. Website: www.novozymes.com/en Address: Plot No. 32, 47-50, EPIP Area, Whitefield, 560066 Bangalore India Point of Contact: Priyangshu Dutta, Head of Public Affairs & Relations T +91 9650680077 Email: pdt@novozymes.com

Novozymes is the global market leader in biological solutions, producing a wide range of enzymes, microorganisms, technical and digital solutions which help our customers produce more from less. Our two divisions – Consumer Biosolutions and Agriculture & Industrial Biosolutions – allow for a more integrated approach towards end markets, defined by common characteristics and value drivers. Consumer Biosolutions cater to industries that supply sustainable solutions with clear consumer benefits, and Agriculture & Industrial Biosolutions creates a sustainable future to customers/ society by delivering increased yield, chemical replacement, waste reduction and health for plants and animals, across factories, fields, and farms.

With robust regional understanding, Novozymes has helped deliver production efficiencies and superior functional and sensorial performance to leading textiles, food & beverages and homecare brands in Bangladesh.





Whatever your business, biology can unlock new opportunities and help move it forward. Select your industry in the menu above to explore the latest insights, technical solutions and know-how to stay ahead of the competition.

Link with the photo: Industries | Novozymes



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Organisation: Aquaporin A/S Website: www.aquaporin.com Address: Aquaporin A/S – Nymøllevej 78 – 2800 Kongens Lyngby – Denmark Point of Contact: Søren Robenhagen Commercial Director, Industrial Water M +45 53738783 T +45 82 30 30 82 Email: sro@aquaporin.com

Aquaporin is an innovative water technology company dedicated to natural water treatment. Aquaporin works to preserve water by combining advanced bioengineering, open innovation and natural aquaporins – nature's own water purifiers, which are embedded into the water purification membranes. Their proprietary technology, Aquaporin Inside®, is based on Nobel Prize-winning research. It is used to clean and reuse water in industries, homes and even by NASA in space.

Aquaporin's two-fold approach of treating industrial water consists of the use two different membrane-based treatment technologies. Aquaporin Inside® CLEAR Brackish Water Reverse Osmosis elements delivering high-quality permeate and low energy consumption is used for process water. Aquaporin Inside® forward osmosis modules reduces wastewater volume up to 50 times and increase water recovery by up to 98% is used for wastewater.



Aquaporin Inside[®] Hollow fiber forward osmosis modules – for improving water reuse and reducing wastewater



Aquaporin Inside[®] CLEAR - High Capacity Low Energy Advanced Reverse Osmosis Element Series





KRÜGER 🕢 VEOLIA

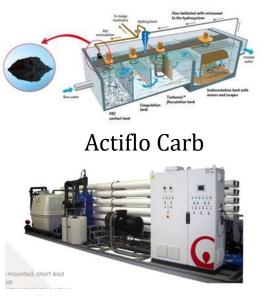
Organisation: Krüger - Veolia Water Technology Website: <u>https://www.kruger.dk/veolia-water-</u> technologies Address:

 Head Office: Krüger A/S, Gladsaxevej 363, 2860 Søborg, Denmark
Malaysia Office: Veolia Water Technologies Sdn Bhd, Mercu 3, Level 20, #3 Jalan Bangsar, 59200 Kuala Lumpur, Malaysia.
Point of Contact: Philip Hermann,
Business Development Manager VWT SEA
M +60 19 388 82 49
Email: philip.hermann@veolia.com

Krüger - Veolia Water Technology is an engineering company delivering solutions for water and wastewater treatment in all aspects, sizes and capacities. In Bangladesh, Kruger & Veolia Water Technologies rely on a network of accredited distributors and partners to distribute and market its technologies to municipal and industrial customers: Cosmos group for the Power market, Flowater solutions for the Food & Beverage market, and Spectra International for the Municipal and Hospitality market.



Evaled



Sirion





Organisation: Jeros A/S Website: www.jeros.com Address: Nyborgvej 8, DK-5750 Ringe, Denmark Point of Contact: Evita Rosdahl, CEO M +45 2210 2004 Email: evita@jeros.com

JEROS A/S comes with more than 55 years' experience and knowledge in manufacturing of service washers, pot and pan washer, crate washers, tunnel machines, utensil washers and tray washers for the foodstuff industry as well as the retail branch; bakeries, confectioners, butchers, hotels, restaurants, fast food and industrial kitchens.

Jeros offers automation of the washing process that kills bacteria, boosts productivity, avoids cross contamination and minimizes the unproductive wash downtime. Their solution offers disinfection of the equipment using minimum time, energy, chemicals and water consumption. With certification from Eurofins Steins, JEROS offers a bacteria-free washing result within only 3 or 6 minutes wash cycle.

The design and functions of the machines are developed for efficiency, best ergonomics, and utilization of minimum space.







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Organisation: AVS Agric ApS Website: <u>www.avsagric.com</u> Address: Sysselbjergvej 27, DK-6051 Almind, Denmark Point of Contact: Morten Wagner M +4529462442 Email: <u>mw@avsagric.com</u>; <u>sales@avsagric.com</u>

AVS Agric is a Danish family-owned company, specialized in designing and manufacturing flexible compact abattoirand meat processing solutions for emerging markets. Our products are modular, pre mounted solutions - ready for operation day after arrival. Our solutions are optimal for ruminants, cattle, and pigs.

We provide customized solutions that tap direct into client's specifications. Our core products are 9 standard modules that can operate separately or form full abattoir and processing line.

Our services to clients can include training, supervision, product development, ingredients supply, maintenance service, financing solutions etc. Also, consultancy on developing business plans for clients can be offered. We are outstanding for educational institutions, farmers and meat processors.

Video introduction: https://www.youtube.com/watch?v=N0ckCRJZMog













Organisation: DC-System Insulation A/S Website: www.dc-system.dk Address: Nordvestvej 8, DK 9600 Aars, Denmark Point of Contact: Mr. Kjeld Andreasen, Regional Sales Manager M +45 2399 0321 Email: kal@dc-system.dk Local point of contact: Food Plast International House #61(3rd Floor), Road #4, Block#B, Mirpur-12, Dhaka-1216 Contact person: Mr. Emtiazuzzaman Mridha, Managing Director M +880 1777719391 Email: fpibd2016@gmail.com

DC-System Insulation A/S have designed and installed cold store solutions to replace old or inefficient installations, to increase plant capacity, to future proof existing plants with sustainable solutions, and to become compliant with new regulations. Our Turnkey cold store designs are proven to offer excellent efficiency ratings as well as energy and CO2 savings. We will design to follow customer's site specifications thoroughly, and fully adhere to technical specifications as well as health and safety regulations.

Leave it to us to deal with EPC (Engineering, Procurement and Construction), including mechanical and electrical engineering, installation and start-up. We have more than 40 years' experience with cold store design and construction including heavy duty industrial refrigeration systems.







Turnkey Cold Stores

PUR/PIR Insulation Panels



Refrigeration Systems



Dock Shelters, Platforms & Doors







PERFECT SOLUTIONS

Organisation: R2 Agro A/S Website: www.r2agro.com Address: Odinsvej 23 · Production: Odinsvej 21 + 25 · DK-8722 Hedensted · Denmark Point of Contact: Ahmed Mohamed Elkafory, Regional Manager M +201 060 233 955 Email: ame@r2agro.com

R2 Agro are specialists in feed and functional nutrition.

We are deeply rooted in the animal feed industry. We have the solution to make the best feed components, additives and pre-mixes for the production of feed mixtures for farm animals, fish and hobby animals.

Our functional supplementary feed products are aimed at young animals and animals exposed to periodic stress. We also have a wide range of products for use in organic production. Everything we do is characterised by better functionality.

Moreover, we are your sparring partner and you can take our advise when you are navigating in the feed- and grain market. This means that you can save both time and money.





InflaMove

ProtectOx™DW





TOPSOE

Organisation: Haldor Topsoe Sdn Bhd Website: www.Topsoe.com Address: A-38-01, Menara UOA Bangsar, Jalan Bangsar Utama 1, Tower A, Menara UOA Bangsar, 59000 Kuala Lumpur, Malaysia Point of Contact: Clement Ting, Account Manager, Bangladesh M +6012 218 5905 Email: csht@topsoe.com

Founded in 1940, Topsoe offers market-leading solutions for the world's most ambitious Power-to-X and renewable objectives. Our customers are active in both the fuel and chemical industries, leveraging Topsoe technologies, catalysts, and services to execute successfully on initiatives that transform how businesses and societies use energy for the better.

With offerings for low- or zero-carbon production of hydrogen, ammonia, and methanol, as well as groundbreaking renewable-fuel technologies, Topsoe solutions minimize levelized costs and maximize energy efficiency regardless of an operation's scale – while also eliminating customers' carbon footprints and helping them establish positions as first-movers in the sustainable era.





HydroFlex TM Reactor

Topsøe Catalysts



Topsøe Services











