

Delegation visit from Germany: 27th January – 3rd February 2018

Pune, Solapur, Nagpur, Mumbai

Air Pollution Control in Industry & Communal Water / Waste Water Treatment

Company Profile Overview

Sector: Air Pollution Control in Industry

Junker-Filter GmbH	Manufacturer of filters for dust separation and solid/liquid separation
Keller Lufttechnik GmbH + Co. KG	Products and systems to capture and separate of a variety of air pollutants as well as to reduce emissions in industrial applications
Lechler GmbH	Environment, metal processing, chemicals industry, engineering, services, any application where spray technologies are applicable
Palas GmbH	Generation and measurement of particles
Schuko Bad Saulgau GmbH & Co.KG	Dust extraction and filtering solutions in industry as well as production of briquetting presses for dust and shredders for wood pieces and plastic

Sector: Communal Water / Waste Water Treatment

GeoThermal Engineering GmbH	Renewable energy, water sampling and interpretation, sustainable water management, groundwater modelling
Hochschule Karlsruhe – Technik und Wirtschaft	University education, Research & Development - among others in water treatment and reuse
Institute for Industrial Ecology (INEC), Pforzheim University	Expertise in environmental assessment; energy and material flow management; life cycle assessment (LCA); carbon footprint; water footprint; material flow cost accounting (MFCA)
KUHN GmbH Technische Anlagen	Machines for the preliminary treatment in waste water treatment plants
Neptune Information Technologies GmbH	IT in finance and insurances sector as well as cold chain monitoring and IoT (connecting wireless sensors/meters and visualizations)
NIVUS GmbH	Water and wastewater applications, ranging from water reservoirs to surface waters, rivers and channels, domestic water, drinking water, water supply and – in terms of post-water treatment – wastewater treatment and sewage plants

Air Pollution Control in Industry

Junker-Filter GmbH (www.junkerfilter.de)

With “tailor made” innovative concepts Junker-Filter is a leading manufacturer of filters for dust separation and solid/liquid separation since 1956. Their objective is to offer individual solutions of high product quality and they offer a wide range of filter products that are used in multiple industries and applications, e.g. food, chemical or pharmaceutical industry as well as in power plants and cement, steel, recycling and asphalt industry.

Their product range includes different types of filter bags, filter pockets, filter cartridges and filter elements. For the solid-liquid separation they offer different types of filter cloths, filter belts and candle filters as well as filter bags. Furthermore, Junker-Filter produces air dryer cartridges (adsorption technology) for renowned companies of the automotive industry and also oil absorption mats.

Objective:

Wish to meet:

- new cooperation and business partners; representatives, agents or distributors
- new customers: OEM dust separation, OEM solid-liquid separation, end user

Keller Lufttechnik GmbH + Co. KG (www.keller-lufttechnik.de)

Keller Lufttechnik is a world-wide technology company specializing in the capturing and separating of a variety of air pollutants as well as in the reduction of emissions in industrial applications. The technological diversity of their separation systems makes them a leader in vacuum and dust extraction systems worldwide. The use of a variety of filtration technologies and Keller Lufttechnik’s comprehensive separator program enable the diversified use of their products in numerous applications.

Keller Lufttechnik offers a wide range of services including air pollution control systems, filtration systems, dedusting systems and the appropriate suction technology for almost all solutions: dry separators, wet separators, oil or emulsion mist separators, work booths. Filters and filter elements from a variety of materials are being used.

Objective:

Wish to meet:

- Customers
- business partners / cooperating companies / institutions
- representatives, agents or distributors, partners for the mutual use of the distribution network
- suppliers / subcontractors

Lechler GmbH (www.lechler.de)

Lechler GmbH is a family business based in Metzingen, Baden-Württemberg. The company develops and manufactures spray nozzles of different materials for various applications and is among the leading companies in the world market.

Lechler's products and services include WFGD nozzles (SiC), Nozzles & lances & control and pump skids for gas cooling, SCR and SNCR, Droplet Separators, CFD + engineering as well as commissioning supervision and manufacturing of skids.

Objective:

They are interested in increasing their business activity in India (already active in this country) and

Wish to meet:

- Customers in the fields of cement, power plants, waste to incineration plants, steel plants, copper plants, and all applications with hot and dirty gases
- Business partners, cooperating companies / institutions
- Partners for environmental protection
- Indian partners for joint smart city proposals

Palas GmbH (www.palas.de)

Palas GmbH are experts in generating and measuring particles. Thereby they count single particles and determine their characteristics. Their core competence is to develop measuring devices and test rigs to generate, measure and characterize particles reliably.

Palas offers development, production and sales of high-precision devices for generating and characterizing particles, certified measuring devices for regulatory use, modular-built, application-specific test systems. Their services and products include the measurement of powders, oils and solutions, Filter media testing, Fine dust monitoring and Aerosol measurement. Furthermore, they also offer training courses and seminars to promote the transfer of know-how.

Objective:

Wish to meet:

- Customers
- Wholesale partners and other qualitative, good sales partners
- Partners for the mutual use of the distribution network
- Business partners such as environmental agencies, textile producers in the nonwoven sector, filter or filter media producers

Schuko Bad Saulgau GmbH & Co.KG (www.schuko.de)

Schuko is a turnkey-supplier of all kind of dust extraction and filtering solutions in industry. They produce briquetting presses for dust and shredders for wood pieces and plastic and design air aspiration and filtering solutions.

Their product range includes exhaust and filter systems for wood, plastics and paper processing companies as well as dedusters, fans, filter systems, paint fog extraction walls (dry and irrigated), residual wood shredder, briquetting presses and even sanding tables. Schuko is also engaged in consulting, planning, delivery, assembly, commissioning, maintenance and operator training.

Objective:

Wish to meet:

- Customers
- Suppliers / Subcontractors
- Partners for the mutual use of the distribution network

Communal Water / Waste Water Treatment

GeoThermal Engineering GmbH (www.geo-t.de)

Geothermal Engineering GmbH is a geothermal engineering company based in Karlsruhe/Germany. The company was launched in 2005 with the goal of improving the development and use of geothermal energy as an independent engineering company.

Their services include exploration, consulting, engineering, planning, design and project development in the fields of renewable energy, water sampling and interpretation, sustainable water management, groundwater modelling.

Objective:

Wish to meet:

- Customers
- Administration in charge of groundwater, renewable energy developers, real estate developers
- Look for business and production partners / cooperating companies / institutions, joint venture partners
- Partners for the mutual use of the distribution network
- Government / city representatives and responsible entities for smart city projects
- Indian partners for joint smart city proposals

Hochschule Karlsruhe – Technik und Wirtschaft (www.hs-karlsruhe.de)

The Karlsruhe University of Applied Sciences (HKA) offers a professional academic education. Courses are focused not only on academic learning but also aim to fulfil industry requirements. The Center of Applied Research (CAR) is the central facility of the Karlsruhe University of Applied Sciences and works to promote applied scientific research and development projects. The CAR main research activities are: applied computer sciences and geo-informatics; intelligent measurement systems and sensor technologies and civil; environmental and process engineering.

The HSAK is looking to implement the SmaWater project in India which will follow a holistic approach to develop sustainable and adapted water supply concepts for urban and rural India. The aim is to integrate water reuse and nutrient reuse as well as providing renewable energy to drive the treatment process. The concept will be designed as smart water management system following the Smart City approach in India's urban quarters and apartment blocks using real-time IoT connected water quality sensors to ensure safe and convenient operation. As for rural areas the concept considers the river basin and groundwater management activities of the Indian government. The innovative core idea is to develop two integrated membrane based treatment processes for the Indian urban as well as rural environment. Besides research on novel low-fouling membranes the project aims to operate two pilot-scale trials in urban and rural India in order to compare performance of the novel vs. commercial membranes.

Objective:

The Hochschule Karlsruhe is interested in increasing their activity in India, specifically in the implementation of the SmaWater project and therefore

Wish to meet:

- Partners for the mutual use of the distribution network
- Business partners / cooperating companies / institutions
- Government / city representatives and responsible entities for smart city projects
- Indian partners for joint smart city proposals

Institute for Industrial Ecology (INEC), Pforzheim University (www.umwelt.hs-pforzheim.de)

INEC is specialised in research and consulting projects about resource efficiency and sustainability. The Institute is involved in numerous research projects funded by third parties such as the BMBF and the state of Baden-Wuerttemberg. There are both cooperation with major corporations as well as small and medium sized enterprises (SMEs), in which a variety of consulting projects was successful. The results are included in the development of professional tools and software, which are internationally applicable. At Pforzheim University the research results are also interlaced in the training of economists specializing in resource efficiency management.

Their core areas of expertise and offered services include environmental assessments, energy and material flow management; life cycle assessment (LCA); carbon footprint; water footprint; material flow cost accounting (MFCA) as well as analysis and ecological evaluation of technical systems or measures and process optimization of production systems.

Objective:

INEC is interested in establishing project cooperations and

Wish to meet:

- Companies or institutions involved in water supply or treatment measures and interested in holistic ecological assessments

KUHN GmbH Technische Anlagen (www.kuhn-gmbh.de)

Kuhn GmbH is specialised in waste water treatment for municipalities and, to a certain extent, also industries.

Their products and services include machines for the preliminary treatment in waste water treatment plants (screw pumps, rakes, washing presses, spiral screens, spiral conveyors and compact systems) as well as plant construction and El & C technology.

Objective:

They are interested in increasing their business activity in India (already active in this country) and

Wish to meet:

- Customers
- CEOs of municipal corporation which is in charge of waste water treatment plants
- Suppliers / Subcontractors
- Contractors
- Government / city representatives and responsible entities for smart city projects

Neptune Information Technologies GmbH (www.neptune-int.com)

Since their inception in 2000, Neptune Information Technologies has been internationally active in the fields of outsourcing, software development and IT consultancy. NEPTUNE gets the right specialists together to develop highly customized solutions and concepts for their customers.

They are specialised in IT in finance and insurances sector as well as cold chain monitoring and IoT (connecting wireless sensors/meters and visualizations). Their services and products include development and maintenance of diverse software applications, project management, nearshoring and offshoring as well as BigData, artificial intelligence and data management. They offer complete solutions for: Home Savings Banks, administration of insurances for multiple insurers and agents, connection of wireless sensors/meters and visualizations using LoraWAN Technology and a printed electronic data logger for end to end cold chain monitoring.

In India they wish to offer their product **TeckPortal** for connecting sensor/meters and visualizations; for example, water meters (and other meters) and facility management in smart cities

Objective:

Wish to meet:

- Customers
- Business partners for the mutual use of the distribution network who are open to new technologies and have an existing project budget, as well as cooperating companies and institutions
- Government / city representatives and responsible entities for smart city projects
- Indian partners for joint smart city proposals

NIVUS GmbH (www.nivus.com)

NIVUS is specialised in measurement technology for water and wastewater applications, ranging from water reservoirs such as dams and hydro power, to surface waters, rivers and channels, domestic water, drinking water, water supply and – in terms of post-water treatment – wastewater treatment and sewage plants.

Their core competencies are in the field of flow measurement of water and wastewater in open channels and full pipes. NIVUS's elaborated hydraulic knowledge enables them to offer efficient products and services for all kind of flow measurement in even most difficult conditions.

The technologies they employ are stationary devices and portable units for precise measurements in the wastewater (e. g. monitoring for Master Plans) and in drinking water for NRW and leakage detection. In terms of communication, NIVUS uses our telemetry and SCADA system.

Objective:

They are interested in increasing their business activity in India (already active in this country) and

Wish to meet:

- Look for business partners / cooperating companies / institutions such as worldwide operating consultants and water providers active in the field of hydropower, irrigation, engineering, communities, constructors and operators, WWTP and flood protection. The ideal business partner should be equipped with sales activities with a field team of experienced salesmen and Competence and experience in the field of consulting for hydraulic applications
- Government / city representatives and responsible entities for smart city projects
- Indian partners for joint smart city proposals