



Israeli Water Technology for the Mining Industry Delegation to Perth

Profile Catalogue 28th-30th June 2010





משרד התעשייה, המסחר והתעסוקה הנספחות המסחרית סדני, אוסטרליה

<u>Israeli Water Technology to the Australian Mining Sector</u>

Australia is a dry continent with competition for scarce water resources. Water is therefore a key business risk for top companies. From a broad Australian perspective, drought, over-allocation, inefficient water supply (loss driven) and climate change has resulted in a strong focus by many leading Australian companies on their water management solutions, and practical ways to address these critical issues.

Mining companies require adequate water of the appropriate quality to operate as water is used across the business from exploration, mining, processing, smelting and refining. There are many challenges facing mining companies in Australia such as water treatment, protecting ground and surface water, tailing and brine management, evaporation enhancement and minimization, power-efficient desalination plants, linking power and water efficiencies to reduce greenhouse gas footprints, and economic modeling of value/cost of water management.

Since its founding, Israel has been coping with water scarcity and has been treating the subject as a national priority. The country has been constantly developing novel and efficient water and energy technologies, which can benefit the world as it is increasingly dealing with water and energy scarcity concerns.

From the comprehensive management of water resources and water-saving irrigation technology to cost-saving purification, reclamation and desalination methods as well as water security solutions, Israel is leading the world in producing water technology for sustainable development.



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Selection Process and ITC Activities and Contacts

To assist in the selection process, the Israel Trade Commission contracted an executive mining consultant (Gibson Associates) as a consultant to assist in hand-picking the most relevant companies for the Australian market. The selection process began with an initial pool of more than 300 relevant companies involved in water technology solutions. From this initial pool of 300 companies, 35 were shortlisted to be interviewed in Israel by the specialist consultant. From this smaller group less than 20 were chosen to form the delegation of companies to visit Australia.

The successful companies were selected specifically to meet the needs of the Australian mining industry and based on the following parameters:

- 1. Proven and innovative solutions to dealing with water issues in the mining industry
- 2. Previous track record in dealing with an international market
- 3. Ability to support large scale projects in Australia

The Israel Trade Commission (ITC) will be hosting a delegation of Israeli water technology companies in Australia 28th-30th June 2010. The delegation will be focusing on Israeli water technology to the Mining industry and is aimed at introducing senior executives in the Australian mining industry to the many innovative technological solutions offered by Israeli companies to the water industry. The Trade Delegation continues the strong ties between the water industries in Australia and Israel and follows on from the delegation of Israeli water technology companies that attended OzWater in Melbourne in March 2009, and the previous Trade Mission to Israel in November 2009 led by The Hon. Phillip Costa MP, NSW Minister for Water & Regional Development, Dr Robyn McLeod, the South Australian Water Commissioner and Dr. Ian Chessell, the Chief Scientist of South Australia. This delegation also comes on the heals of the WA Water Minister, The. Hon. Dr. Graham Jacobs' visit to Israel earlier this year.

Please find below the catalogue featuring the Israeli companies who will be attending this delegation, including a profile and information on each company that will be presenting. For more information or to schedule a meeting with any of the members of the delegation, please contact Richard Vesely (<u>richard.vesely@israeltrade.org.au</u>) at the Israel Trade Commission on (02) 9388 0382 or at our website <u>www.israeltrade.org.au</u>.

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Company's Name - A.R.I. Flow Control Accessories Ltd

Year Of Establishment - 1978

Number of Employees – 140

Website - www.arivalves.com



Company's Profile

The company was founded in Tel Aviv in 1970 and supplied the needs of the local market for air valves and check valves. In 1978 the factory was transplanted to its current location at Kfar Haruv and now exports almost 80% of its sales. In this time period, employment increased from 10 workers to 140.

International and Export Activities

ARI has 5 subsidiary companies in the USA, Germany, Russia, China and South Africa, most of them under 100% ARI ownership. ARI's main markets include North America, South America, Central America, Western Europe, Eastern Europe, the former Soviet Union, South Africa, Australia, New Zealand, India, China and other Far Eastern countries. Exports run about 80% of company sales.

Activities in Australia

ARI has been active in the Australian market since 1983. Its valves are sold to the irrigation, waterworks and industrial markets through the leading Australian companies in these fields. ARI air valves have been approved by the Water Authorities in Australia. References are available upon request.

Activities/Installation in the Mining Sector

ARI is mainly involved in the mining and coal bed methane industries in Peru, Chile, Mexico and North America. ARI has supplied products including specialty air valves and underground air valve systems as well as services including pipeline analyses for the sizing and placement of air valves on liquid conveyance systems and system surge analyses. We have supplied our products and services to the copper, gold, silver and uranium mines as well as to the coal bed methane industry. References are available upon request.

Company's Name - Amiad Australia Pty Ltd

Year Of Establishment - 1979

Number of Employees - 34

Website - www.amiad.com.au



Company's Profile

Amiad Australia (AA) is a fully owned subsidiary of Amiad Filtration Ltd. The company was established in Australia in 1979 – and been in business for the last 30 years. We supply Amiad Water Filtration, Air valves, Control valves, and complete solutions of a wide range of water treatment plants that include: Reverse Osmosis, Ultra Filtration, Media, Iron removal, EDI and much more.

International and Export Activities

On the global side: Founded in 1962, Amiad Filtration Systems has long been a leader in filtration technology. From massive industrial and municipal installations to sturdy home landscaping filters, Amiad has created solutions that water users in 70 countries rely upon for clean water.

Amiad's 10-acre headquarters complex in Israel includes research and development, manufacturing, warehousing and training facilities.

With a full line of filtration solutions - plastic, steel, disk or thread; manual to fully automatic; filtration levels from 3500 microns to 2 microns - Amiad offers filtration systems to meet nearly any need.

Our filters are in use in 70 countries around the world, in applications that include:

- Agricultural and landscape irrigation
- Aquaculture
- Industrial water processing
- Industrial wastewater treatment
- Municipal water treatment (drinking and waste treatment)
- Prefiltration to protect costly media and reverse-osmosis systems

Amiad Filtration currently has subsidiaries in: USA, Australia, China, India, France, Germany, and Chile. Head Office is based in Israel and the company is listed in AIM – London.

Activities in Australia

Amiad Australia (AA) is a fully owned subsidiary of Amiad Filtration Ltd. The company was established in Australia in 1979 – and been in business for the last 30 years. We supply Amiad Water Filtration, Air valves, Control valves, and complete solutions of a wide range of water treatment plants that include: Reverse Osmosis, Ultra Filtration, Media, Iron removal, EDI and much more. Company Head office is in Melbourne and we have local representatives/offices in each capital city in Australia. We provide installation, commissioning and services as required.

Activities/Installation in the Mining Sector

Full range of products to major mining companies that include – process water, waste and discharge, purification, dust suppression and many other applications, case studies and specific information can be provided.

Company's Name – **Baccara Geva**Year Of Establishment – 1964
Number of Employees – 250
Website – www.baccarageva.com.au



Company's Profile

Baccara is a market leader in the manufacture and specialization of products for automation such as: air valves, air cylinders, solenoid valves and nylon tubing for use in industry, agriculture and irrigation.

International and Export Activities

Our market network covers most of the USA and Europe, also Australia, South Africa and the Far East. We have subsidiary branches in USA, Netherlands, Spain and Australia. Our export department sales are 33% of our total turnover.

Activities in Australia

We established a subsidiary branch in Melbourne Australia to upgrade the service and availability to our Australian customers. Our customers in Australia are: Parker, Comp Air, Norgren. Our local distributor, also called Baccara Automation Control, was set up 25 years ago in Melbourne.

Activities/Installation in the Mining Sector

Baccara sells a lot of air and solenoid brass valves to the mining industry

Company's Name – **BallTech Energy**Year Of Establishment – 2004
Number of Employees –
Website – www.balltech.com.au



Company's Profile

Balltech designs and produces on-line cleaning systems for shell & tube heat exchangers / condensers. The BallTech® system is protected patent and the only maintenance-free online cleaning system with proven success over 14 years in thousands of installations worldwide and in Australia. Using hydro-mechanical principles, the BallTech® system circulates sponge balls through the condenser tubes at pre-set intervals. Balls are injected into the cooling water upstream of the heat exchanger and collected downstream in a special trap. They're then returned to the injector for next cycle. The cycle performs at 30-minute intervals. Because the balls are 1 mm larger than the condenser tubes' internal diameter, they continually polish the tubes' internal surfaces insuring perpetually clean tubes.

Activities in Australia

BallTech Australia commenced operation in 2004 by acquiring the distribution rights for the BallTech system in Australia & New Zealand. Current customers list includes leading companies in the commercial sector such as AMP, ING, Stockland, Lion Nathan, Melbourne airport and leading public hospitals.

Activities/Installation in the Mining Sector

BallTech Energy through their agent in South Africa sold and installed over 200 systems to SASOL and several gold mines.

Company's Name - Beth-El Zikhron Yaaqov Industries Ltd.

Year Of Establishment - 1975

Number of Employees - 590

Website - www.BEInd.com



Company's Profile

Beth-El Industries is a leading developer and manufacturer of air treatment and filtration system, specializing in Toxic Chemical/Particles and NBC filtration

Established at 1975, over the years the company expanded its range of products, clients and activities, focusing on development and production of innovative Air Filtration Systems for new applications.

The number of company employees has grown steadily over the years and now stands at over 500 people.

International and Export Activities

75% of the company's produce is manufactured for export. Beth-El products are exported to 62 countries worldwide, main export markets are EU countries, Japan, NATO forces and Singapore. Beth –El Asia Pacific is a branch of Beth-El Zikhron Yaaqov Industries Ltd., located in Singapore

Activity in Australia

Beth-El's Air Filtration Systems for the mining industry are newly represented in Australia by ALYTECH.

ALYTECH experts, trained and supported by the manufacturer, provide technical support, maintenance and other services for Beth El products in Australia

Activities/Installation in the Mining Sector

Beth-El Industry's Gas and Particle Filtration systems are currently protecting the control rooms of the Dead Sea Bromine Group, Israel.

Company's Name –**BPT**Year Of Establishment – 2000
Number of Employees – 35
Website – www.bpt.co.il



Company's Profile

BPT develops, produces and markets advanced chemically-stable Nanofiltration membranes and Hybrid Membrane Technology (HMT) systems which help customers recover valuable raw materials and purify aggressive industrial wastewater streams.

International and Export Activities

BPT is a technology oriented company. BPT's aims to play major role in mining wastewater treatment and valuable minerals recovery.

Our target markets are: Copper, Uranium, Nickel and Zinc mines worldwide.

Activities/Installation in the Mining Sector

BPT has designed a full wastewater treatment and Cooper recovery process for two major Copper mines in Chile based on its Nano-Pro membranes and HMT system and is currently engaged in negotiation for pilot erection and full scale plant design

Value Offered to Mining Sector

Utilization of **HMT** (Hybrid Membrane Technology) and **Nano-Pro NF** for extracting copper contributes to improved efficiency and reduced costs in two important ways. It helps solve mine environmental problems by recycling AMD and Mine Tailing and Wastewater and reduces the cost of recovering copper form the PLS. The mine may now reduce their mine waste, increase the availability of water for process use, harvest more copper and have better use of capital and raw material resources.

Company's Name – **C-Valves Ltd.**Year Of Establishment – 1995
Number of Employees – 16

Website - www.cvalves.com



Company's Profile

C-Valves is a supplier of hydraulic control valve applications for mining, water supply, industry and agricultural uses. Established in 1995 with the mission to develop a valve technology that will eliminate the problems inherent in conventional control valve systems, C-Valves invested three years in research and development before bringing its first products to market. C-Valves' products are based on proprietary valve technology. With some of the best minds in hydraulic engineering, and state of the art manufacturing and testing facilities, C-Valves continues to invest to bring to market control valve solutions for bringing measurable benefits to our customers.

To the mining sector C-Valves supplies non-metallic control valves that withstand increasingly corrosive mining environments, delivering reliable performance at competitive prices.

International and Export Activities

The C-Valves global network of distributors, licensed service centers, and alliance partnerships with leading products and services providers, enable us to deliver global solutions with a local touch.

Continual "open door" communications with distributors, alliance partners and end users enable C-Valves to continually deliver improved products and services that meet the pressing needs of our customers.

Activities in Australia

The company has a long lasting cooperation with its Australian distributor Plasson Australia, which provides customers and end users with full sales, marketing, installation maintenance and repair services.

Activities/Installation in the Mining Sector

C-Valves supplies non-metallic control valves that withstand increasingly corrosive mining environments, delivering reliable performance at competitive prices.

In mining environments where you need to reliably deliver stable water supply, and you need to preserve equipment and infrastructure from damage, C-Valves delivers solutions. As the industry uses more chemicals in increasingly corrosive environments, C-Valves delivers very cost-effective control valves constructed of materials that can withstand corrosive environments.

Instead of very expensive special alloy valves, C-Valves offers non-metallic based hydraulic control valves that deliver the same or better resistance to chemicals and corrosive environments at the cost of a normal standard-materials valve.

C-Valve's unique fail closed design also enables the use of control valves in underground operations where traditional "fail

C-Valve's unique fail closed design also enables the use of control valves in underground operations where traditional "fail open" valves are unsuitable due to the risk of pipe burst and flooding in the event of malfunction. This enables C-Valves to replace expensive and bulky break tanks with an economical and reliable valve installation.

Company's Name – **EWA Tech Ltd**Year Of Establishment – 2006
Number of Employees –
Website – <u>www.alytech.com.au</u>



Company's Profile

EWA Tech Ltd. deals with development, production and marketing of technologies, apparatuses and water plant based on novel concept for extraction of humidity from air. The Company also owns Gasification technology as renewable energy source. EWA tech produce and sale water plant of capacities from 5 to 1,000 cubic meter of water per day.

International and Export Activities

EWA Tech sale its' products worldwide, mainly in South America, Europe, Japan, Arabic Gulf, Africa and Australia. The company having its' own marketing and service infrastructure.

Activities in Australia

EWA Tech is working in Australia through AlyTech Pty/Ltd. <u>www.alytech.com.au</u>, that provide installation, maintenance and services to EWA Tech's products. During the year 2010 AlyTech intend to start production and assembly of EWA Tech's produces in Australia.

Activities/Installation in the Mining Sector

EWA Tech is not yet active in the mining sector in Australia, but started in Chile. EWA Tech offer to the mining sector mobile and permanent water plant to supply up to 1,000 cubic meter of water per day, independent of infrastructure or piping..

Company's Name – **IDE Technologies**Year Of Establishment – 1965
Number of Employees –
Website – www.ide-tech.com



Company's Profile

IDE specializes in research and development of saline water desalination processes, concentration and purification of industrial streams, wastewater treatment, heat pumps and ice/snow machines.

IDE develops, designs, manufactures and installs sophisticated equipment for industrial and domestic applications throughout the world. Our equipment and plants are based on self-developed processes and state-of-the-art technology. In addition IDE provides post-sales maintenance and support for plants delivered to our customers.

History and Experience

Since its inception in 1965, IDE Technologies Itd. has designed and supplied over 370 plants of various types and sizes, in nearly 40 countries worldwide, with an overall production capacity of about 1,400,000 m³/day. Some of the first units commissioned are still in operation after more than two and a half decades, to the satisfaction of users, without significant loss of the original performance or breakdown.

IDE's desalination plants have rightfully earned a reputation for outstanding availability, stability and flexibility of operation, making them also suitable for developing countries where skilled operating personnel is scarce and reliable operation is essential.

IDE has successfully installed a variety of water solutions, including Vapor Compression and Multi-Effect Distillation Units, Reverse Osmosis plants, Concentration and Refrigeration Equipment. Moreover, with thermal distillation units ranging from 30 to 18,000 m³/day, and membrane desalination plants ranging from 600 to 330,000 m³/day, some of these plants are of the largest of their kind in the world.

Activities in Australia

Slated for completion during 2010, the desalination plant in Pilbara will be based on reverse osmosis technology - a modern process technology used for desalinating water in a wide range of applications. The plant will provide 140,000 cubic meters/day (50 million cubic meters/year) of high quality desalinated process and drinking water, using innovative technologies implemented by IDE in its projects worldwide, for example in the plants in Ashkelon and Hadera (over 100 million cubic meters/year each), Cyprus (20 million cubic meters /year) and in Eilat (3.6 million cubic meters/year).

This project is one of the most complex in the world and one of the largest of its kind supplied by IDE to a foreign client. The quality of the feed water and compliance with the rigid and meticulous standards of the local industry necessitates more precise and complex treatment than in similar installations elsewhere

Benefits for the Mining Sector

IDE's industrial Zero Level Discharge (ZLD) solutions excel in energy efficiency and are environmentally friendly. IDE applied its vast experience and extensive technological expertise in installation of desalination plants and energy-efficient, environmental-friendly water and waste water treatment equipment to the development of a unique concentrator for brines containing hard scale-forming compounds.

IDE's Heavy Duty Evaporator (HDE) units are designed for utilities, chemical processes, pulp and paper and other industries.

Company's Name – Netafim Ltd

Year Of Establishment - 1964

Number of Employees – 2,400 worldwide

Website - www.netafim.com



Company's Profile

Netafim[™] offers a comprehensive line of drip and micro irrigation products for Agriculture, Landscape & Turf, Greenhouse & Nursery, Mining and Wastewater applications.

International and Export Activities

Netafim[™] is the global leader in smart drip and micro irrigation solutions for a sustainable future. With more than 35 subsidiaries worldwide, Netafim agronomists and engineers deliver optimal solutions to growers in over 112 countries, with 14 manufacturing facilities around the globe and over 2,400 employees.

Netafim helps the world grow more with less, this means achieving better quality crops and higher yields while using less of the world's limited resources such as water, land and energy.

Our products provide diverse and comprehensive solutions for cost-effective irrigation for a broad range of crops: open-field crops, orchards, groves, vineyards and more.

Netafim's broad solutions portfolio includes complete drip irrigation systems for agricultural and landscape irrigation, computerized monitoring and fertilization control systems and turnkey greenhouses projects.

Netafim is jointly owned by three Kibbutzim (Hatzerim, Magal and Yiftach), the Markstone fund and the Tene Fund. The company's annual sales totaled \$504 million in 2009.

Activities in Australia

The Australian subsidiary is based in Laverton, VIC.

Netafim Australia Pty Ltd has a local manufacturing facility and it maintains a sales, marketing and service presence throughout Australia – WA, SA, QLD, NSW and VIC. Please visit www.netafim.com.au for more information.

Activities/Installation in the Mining Sector

Netafim's mining services surpass conventional methods, offering total system solutions for maximum metal recuperation. Our high quality dripperlines provide uniform coverage, minimize clogging and ensure functionality, while valuable hydraulic planning services help lead to optimal results.

In addition, Netafim can offer:

- Total system solutions from Leach lines, fittings, filters, valves and air vents to technical expertise
- A team of experts Technical Manager, Market Segment Expert and Customer Service Representative to support your mining operations
- System Solutions including cost-savings initiatives, first class logistics services and application designs and consultation
- Quality Commitment Netafim is ISO 9001:2000 Certified recognized today throughout the industry for our rigid quality-control measures.

Company's Name – **Nirosoft**Year Of Establishment – 1989
Number of Employees – 65
Website – <u>www.nirosoft.com</u>



Company's Profile

Nirosoft provides advanced tailored water treatment solutions, including process engineering, design, manufacturing, commissioning, training and ongoing service for a wide range of water & wastewater treatment applications, such as:

- Seawater and brackish water desalination for drinking & process using UF & RO membranes.
- Domestic and industrial effluent recycling using DAF, media filtration, UF & RO membranes that enable reuse of water while minimizing waste discharge
- Ultra-Pure/ demineralised water for industrial, pharmaceutical & power applications, using RO & EDI

International and Export Activities

Headquarters in Israel. Fully owned subsidiaries in Australia, Italy & South America and a network of representatives & agents around the world. 90% of activity to export, mainly to the Mediterranean region, Europe, Australia & South America.

Activities in Australia

Nirosoft Australia Pty Ltd a fully owned subsidiary located in Melbourne. Activity in Australia since 2001 with approx 30 installations to date in various locations & applications. Installations in Australia include RO systems for seawater, brackish water & effluents, UF systems for process, potable & effluents, EDI systems for dematerialized water feed in power plants and more.

Activities/Installation in the Mining Sector

Chile: 5,000 m³/day wastewater treatment & recycling system in a copper mine, including: clarifier, DAF, UF & RO. Turnkey project supplied 2008.

Australia (WA): 2-pass RO + EDI system for demin feed to a power plant in an iron ore mine, Pilbara WA. Containerized system with full duty/stand-by capability. Supplied 2009.

Australia (QLD): 3,600m³ UF-RO system for Coal seam Gas Water treatment. Supplied 2003.

Australia (QLD): RO desalination systems for bore water at mining camps in QLD. Supplied 2006

Company's Name – **Odis Filtering Ltd** Year Of Establishment – 1978 Number of Employees – 250

Website - www.odisfiltering.com



Company's Profile

Odis is a world wide provider of state-of-the-art Water Treatment plants and solutions.

Among our worldwide customers you can find reputable multinational corporations, national water supply companies, municipalities and government agencies.

ODIS has used its many years of experience in the industry to develop complete treatment systems. Odis' modular approach provides our customers with easy to operate and cost-effective plants. The units are trouble-free systems capable of enduring in any operating environment with minimal maintenance efforts.

International and Export Activities

Many of our clients are industrial companies, government customers and State water companies such as Columbia Metropolitan Airport USA, Hydroven- Venezuela, DSI –Turkey, Mekorot – Israel, United Nations Peace Keeping Missions and Alifruit in Chile. Among our Business customers, one can find Heinz, Ford, Schering Plough, food industry, oil refineries and many others known companies worldwide.

Odis branches are located in Australia, United States, Romania, Mexico, Brazil, Argentina, and Chile.

Activities in Australia

Our head office in Australia is located in Sidney. It provides service and support for our systems according to the client requirements.

Some of our projects in Australia are:

- Seq Water (Sun Water), Queensland seven water treatment plants for drinking purposes. Estimated capacity: 100 m3/day each one.
- South West Rocks, Kempsey Shire Council, NSW. Waste Water Recycling Plant. 1,650 m3/day
- Melbourne Convention Center. Municipal Waste Water Treatment. 100 m3/day
- Eacham Shire Council. WaterPoint Drinking water plant. 1,200 m3/day
- Dimbulah. Tableland Shire Council. WaterPoint Drinking water plant. 1,800 m3/day
- Woodie Woodie plant, Western Australia. Sewaclear® Waste water tertiary Treatment Plant. 360 m3/day
- Darling Anabranch. River Water Filtration for Agricultural Applications. 2,160 m3/day
- Hume Project Hume City Council, VIC. Greywater Treatment Plant (Optimum®).60 m3/day

Activities/Installation in the Mining Sector

- Peru. System for carbon removal from water in gold mines.
- Chile. Odis proprietary technology to extract copper from mining process.
- Chile. Odis proprietary technology to extract copper from snow melting process (blue water).
- Waste water treatment for mining camps.
- Drinking water treatment for mining camps including desalination and filtration processes

Company's Name – **Plasson Ltd**Year Of Establishment – 1965
Number of Employees – 1600 worldwide
Website – www.plasson.com.au



Company's Profile

Plasson specializes in the development and production of long-life, plastic-based fittings for polyethylene pipes as well as offering a wide range of jointing solutions to mate metal and plastic piping to polyethylene.

International and Export Activities

A global leader in jointing solutions, Plasson has over 10 production and marketing subsidiaries worldwide. The company is represented in over 80 countries on 6 continents and has been active in the Australian mining sector for more than 20 years.

Activities in Australia

The company maintains a marketing and sales service subsidiary in Sydney and distributes fittings through Vinidex Pty Ltd., a leading Australian pipe manufacturer. Please visit http://vinidexho.sitesuite.ws/page/pe_fittings.html and http://plasson.com.au for more information.

Activities/Installation in the Mining Sector

Specialty safety fittings for compressed air (fully thrusted, leak-evident, oil-resistant, highly durable)

Connecting polyethylene pipe to copper, steel, PVC, polybutylene and lead

Large diameter couplers for PE piping for coal seam gas transport

PEX (cross-linked polyethylene) electrofusion fittings for jointing hot water systems

PE pipe connection systems - mechanical and welded -16 to 710 mm

Plastic valve systems - PE, PP and PVC - up to 225 mm

Pressure, flow and relief hydraulic control valves for pipe sizes 50mm to 450mm