

## TECHNOLOGY OFFERS

### HUNGARY

#### Plasma technology for cleaning water

This technology from a Hungarian company provides a new water cleaning technology called "Underwater Plasma Technology". The underwater plasma technology is a new technology for the "incineration" of liquid wastes containing hazardous organic components. The decomposition of the organic materials takes place in an electric plasma zone generated in diluted aqueous solutions. The water content of the liquid waste does not need to be evaporated and therefore, the energy consumption of the process is low, compared to other combined separation-incineration processes.

#### Areas of application

**Chemical industry:** Cleaning of wastewaters of the pharmaceutical and petrochemical industries, e.g., removal of mercaptane or methanol.

**Energetics:** Decomposition of iron or radionuclide containing EDTA complexes that are generated in high quantities during the maintenance of nuclear power plants.

**Armaments industry:** Elimination of biological and chemical warfare agents, e.g., bacteria and picric acid.

**Medical and sanitary applications:** Disinfection of various effluents.

**Petrochemical industry:** Degradation of organic sulphur included in alkaline wastes, produced by the oil industry.

#### Advantages

- The technology can be applied at explosion-prone areas.
- The inorganic salt content of the solution remains unchanged (other solutions increase the salt content).
- The technology presents a cheaper solution compared to other separation-incineration solutions in case of a small amount of organic components (incineration is unprofitable), or where environmental aspects do not allow incineration.

#### Environmental aspects

Cleaner production

#### Legal protection

Patent

Contact:

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### INDIA

#### Food-borne pathogen detection

An Indian biotechnology research and development organization, specialized in the design and development of various analytical tools, is willing to provide effective solutions with greater levels of accuracy in detecting food-borne and water-borne pathogens, including bacteria, fungi, protozoans and viruses.

#### Areas of application

- Food industry; • Water industry; and • Diagnosis.

#### Advantages

Detection limits - 1-10 cfu; Detection within 24 hours; Higher specificity; Detection upto species and sub species level; Cost-effective, efficient approach; and Compliance to international standards.

#### Development status

Laboratory model

#### Transfer Terms

Consultancy; Joint venture;

Technical services; and Research partnerships.

Contact:

*Bioserve Biotechnologies*

*3-1-135/1A, CNR Complex, Mallapur Main Road  
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### REPUBLIC OF KOREA

#### Optical character recognition (OCR) software

A Republic of Korea company is offering technology of OCR software. The OCR software allows automated input of any page of a printed document to computer without typing them on the keyboard. Any page can read documents of Korean and Chinese character as well as the English alphabet. With its document analysis capability, any page can classify text, table, and image blocks, and then convert them into electronic files.

**Area of application**

Electronics and Information technology.

**Advantages**

- Recognition engine: By using multiple experts, any page provides high quality recognition as well as recognition of badly printed texts.
- Ability to learn new characters; Recognition of printed alphanumeric, Korean and Chinese letters. Document analysis: Recognition of multi-columned text with tables and pictures; Saving of document layout in RTF format; Saving of tables in RTF, CSV, XLS, and DBF format. Language support: English, numerical digits, Korean, Chinese. Built-in spell checker (English and Korean).
- Interaction with other applications; Exports to MS Word, Excel; Exports via ODBC32; Supports HTML. Batch Processing: Distributes processing batches in network environment. Advanced Features: Recognition of hand printed alphanumeric and Korean letters. Developers' OCR toolkit available.

**Development status**

Fully commercialized

**Transfer terms**

Technology licensing

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**PEOPLE'S REPUBLIC OF CHINA**

**Fogger sprayer and high-range sprayer**

Nanjing Forestry University in collaboration with Nantong Guangyi Mechanical & Electrical Co. Ltd in China has successfully developed the 6HY series fogger sprayers and the 6HW series high-range sprayers.

**Areas of application**

The 6HY series fogger sprayers are mainly used in sanitation and epidemic prevention, pests and diseases control in forests and rubber plants in agriculture. The 6HW series high-range sprayers have been widely used in pests and disease control in farmland shelter-forests and plantation along freeways.

**Advantages**

The 6HY series fogger sprayers have the features of high efficiency, low consumption of pesticide, low cost and good

droplet penetration. In the 6HW series high-range sprayers, the vertical range can reach 25-30 m, and so are suitable machines for pests and disease control of high trees.

**Development status**

Fully commercialized

**Legal protection**

Patent

**Transfer terms**

Equipment supply

Contact:

Nanjing International Technology Transfer Center (NITTC)  
No.11 Baochang North Road, Libao Town, Haiian County  
Jiangsu Province, Nanjing, People's Republic of China  
Zip/Pin Code 226631. Tel: (+86-513) 8821 2809  
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**THAILAND**

**Energy efficient air conditioning**

A Thai business firm based in Bangkok, Thailand has developed a new, energy-efficient and cost-effective technology for air conditioning systems.

**Areas of application**

Manufacturing industries; air conditioning systems; food industries; food processing industries; and biotechnology industries.

**Advantages**

Energy saving; Cost effective; and Has an innovative design.

**Environmental aspects**

Cleaner production and Energy efficient.

**Development status**

Pilot plant

**Legal protection**

Trademark

**Transfer terms**

Subcontracting and Joint venture.

Contact:

CGA Co Ltd.  
1213/298 Ladpraw Rd., Wangthonglang  
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E-mail: cgaco@ji-net.com

## TECHNOLOGY REQUESTS

### INDIA

#### Organic biofertilizer

An Indian entrepreneur needs information for setting up a plant for the manufacturing of organic biofertilizers, and a feasibility report on the project. The entrepreneur would also like to receive assistance for procuring the plant and machinery.

**Area of application**

Agriculture

**Transfer terms**

Consultancy and Turnkey.

**Project type**

Start-up

Contact:

Mr. Shiva

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India 244001. Tel: (+91) 9837087337; Fax: (+91) 5912415647  
E-mail: shivami1@sancharnet.in

### IRAN

#### Sodium sulphide plant

An Iranian company is looking for an expert/company to provide consultancy services for manufacturing sodium sulphide flakes from minerals like sodium sulphate as raw material.

**Area of application**

Leather industry

**Transfer terms**

Consultancy and Turnkey.

**Project type**

New idea

Contact:

Jafari Fa-ks chemical Co.

No. 43, Iranshahr Ave, Tehran, Iran 15816.

Tel: (+98-26) 2277 3573; Fax: (+98-26) 2277 3574

E-mail: javadjafari@yahoo.com

### MALAWI (SOUTH-EAST AFRICA)

#### Hydrated lime

A Malawi based mining company has a mining licence for lime. The company needs consultancy services in setting up a hydrated lime plant.

**Areas of application**

Chemical industry; Tanning industry; Petroleum industry; and Food industry.

**Transfer terms**

Consultancy

**Project type**

Start-up

Contact:

Mr. F. T. Mwenifumbo

Coronation Mining Limited

Malawi, South Eastern Africa. E-mail: focusright@msn.com

### TURKEY

#### Production of ethanol from molasses

A Turkey based company is planning to set up a plant for production of ethanol from molasses. It would like to set up this plant as a joint venture, together with a foreign investor.

**Area of application**

Chemical industry

**Transfer terms**

Joint venture

**Project type**

Start-up

Contact:

Chemical Engineer Gen. Director Yahya ALTAY

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# technology Market

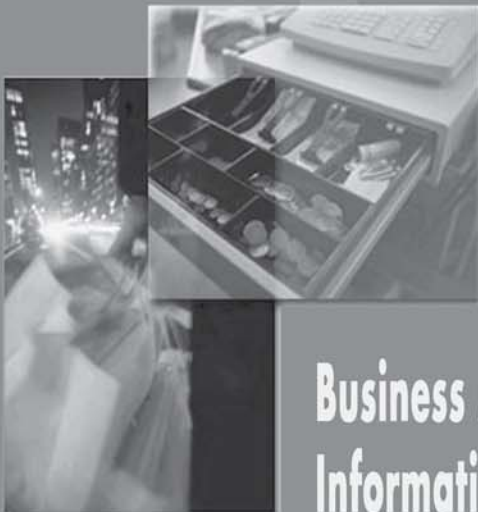
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