

Geosan Environmental Ltd.



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INTRODUCTION

Geosan Ltd. was founded in 1996 with 100% Hungarian private ownership. At the time of its foundation the company operated based on the work of the Engineering Office in Budapest, which was followed by the launch of our biotechnological branch-establishment in 2001.

The main areas of work of the **Engineering Office** include environmental services, engineering- expertise tasks and for the last few years also takes on assignments for experimental- and development work from the areas of waste disposal and hazardous-waste handling. Our fields of services include the activities from expert consultancy and planning, to the realization of technologies. There are 4 professional engineers working in the Engineering Office, all of them with a university degree.

The **Biotechnological Subdivision** is located in Balatonfűzfő. We consider it our main duty to work on the industrial-size expending of the use of microbiology, specifically for agricultural and environmental-protection purposes. The establishment operates with a professional staff of 24–32 employees. To contribute to the biotechnological development, production and quality-control, a microbiological laboratory is available, with a crew of 4 laboratory-technicians, lead by a certified engineer in biotechnology, and a chemical engineer.

MAIN ACTIVITIES, PRODUCTS AND SERVICES

Geological testing, examination of environmental conditions, environmental impact assessment and survey of polluted areas

- environmental audit, detailed area-survey;
- reveal environmental statement of facts, examination and evaluation of state of condition verify current or possible future environmental responsibilities of factories, other workshops by complete series of tests;
- environmental examinations for preparation in investment-decisions;
- evaluation of environmental sensitivity, environmental risk-analysis;
- examination and delimitation of soil and underground-water contaminations;
- geochemical transport-modeling of the spread of contaminations;
- environmental impact assessment;
- drawing-up of technology for proper waste-handling, utilization and neutralization;
- planning and execution of projects for environmental damage prevention and control;
- elaborating industrial waste-water cleaning technologies.

Environmental damage-control

- implementation of fixation-stabilization of heavy-metal contaminated soils and wastes;
- technical supervision of environmental damage-prevention and control works.

Research and development for protecting the environment

- Our research is implemented an environmental geochemical GIS system that takes into consideration the division of natural region system. The applied method breaks from mechanical geometric and statistic based sampling, and map appraising founded on it. Thus, with a relatively small amount of samples, the method gives information about whether regional geochemical survey or practical investigation of local environmental as so as other problems; it can also be widely used for multidis-

cipline researches, environmental protection, region development, agricultural and environmental sanitary management.

- Biotechnological research for the purpose of biological neutralization of hazardous waste, contaminated soil.
- Biotechnological research on handling of agricultural wastes and residues.

Special, self-developed products

Geocell – 1: Cellulose-decomposing, soil-conditioning microbiological adjuvant

The product accelerates the organic decomposition of stem-residue, this way providing natural manure. Significantly decreases the artificial fertilizer demand of the intense cultivation, enhances the resistance-capability of the plants, and also decreases the probability of the so-called „pentosan-effect“ occurring.

GeoPetrol – 1: Carbohydrogen-decomposing microbiological product

The product accelerates the microbiological decomposition of the carbohydrates and its by-products that are normally hardly decomposable, therefore minimizes or even ceases the contamination of soil, underground-water.

OUR WORKS OF REFERENCE

Some of our works in the field of environmental-protection:

- Environmental assessment and risk analysis in connection with the gas-purifying mass that had been unloaded at the mine-area of Üröm-Csókavár (Hungary), 1997. – employer: Gasworks of Budapest Inc.
- Planning and execution of works for the monitoring system in the plant site of METALLOCHEMIA Re-cultivation Planning and Services Ltd. in Budapest, District XXII, Harangozó u. 36. – client: METALLOCHEMIA Ltd. 2001.
- Examination of settlement solid waste landfills, Phare project HU 991 1-01, – client: Royal Haskoning and CANOR International Ltd., 2002.

INNOVATIVE ACTIVITIES PRESENTED FOR COLLABORATION ON FOREIGN MARKETS

Environmental survey, analysis, preparation of impact studies

Demonstration of biotechnological procedures for use in the fields of agriculture and environmental protection:

1. Technological know-how of the cellulose-decomposing microbiological adjuvant
2. Technological know-how of the nitrogen-binding microbiological product
3. Technological know-how of the phosphate-mobilizing microbiological product
4. Technological know-how of the carbohydrate-decomposing microbiological product

Participation in the planning and setting-up of factories for manufacturing microbiological products

Participation in the planning and setting-up of composting mills

Presentation of the procedure for environmental-friendly handling of agricultural liquid-manure



SEEKING PARTNERS

Geosan Ltd. is looking for investor partners, primarily for the establishment of a joint company, to create and set-up a biotechnological products manufacturing mill for agricultural and environmental-protection purposes.