

TECHNOLOGY FOR TREATMENT OF SOLID DOMESTIC WASTE LANDFILL LEACHATE



Leachate of SDW landfill



Catalytic oxidative treatment of leachate



Discharge of purified water into environment

Areas of Application

The proposed technology solves a very important environment and social problem, the pollution of aquifers with highly toxic leachate

Specification

This highly-efficient technology for comprehensive treatment of landfill leachate is designed to process 1.000 m³ leachate daily and involves the following stages: catalytic deep oxidative pretreatment of leachate; demineralization with the use of membranes (or in any other way); refinement in bio-pond until the applicable standards are met; and discharge of clean water into environment

Advantages

Unlike the existing methods, this technology enables organising the full recycling of leachate to obtain purified water that meets the applicable environment standards and to solve the problem of concentrated residue that is processed into materials for cap barrier layer, road construction materials or admixtures

Stage of Development. Suggestions for Commercialization

IRL5, TRL7
Customized process flowchart for particular landfill is developed and staff training is provided upon request

IPR Protection

IPR3

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