

Translation from Romanian into English.

**Republic of Moldova
Ministry of Health and Social Protection**

**NATIONAL SCIENTIFIC-PRACTICAL CENTER
OF PREVENTIVE MEDICINE**

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09.11.05 No 06h-6/2-1229
To No _____ from _____

CERTIFICATE OF HYGIENE

“MITKAN” SRL

On conformance of the technical instructions

The state sanitary-epidemiologic service of the Republic of Moldova has examined the draft of Technical instructions to the waste utilization installation IUD-2005 PT MD 13-40170203-001:2005 developed by “MITKAN” SRL and has noted the following:

The present instructions refer to the waste utilization installations IUD-2005. These installations are meant for thermochemical decomposition of household and production wastes at high temperatures in areas of their generation or accumulation (enterprises, landfills, etc.). The operating principal of the installation is thermochemical destruction of carbon-containing wastes at temperatures in the range of 1350-1800°C which exclude the formation of dioxins, benz(o)pyrene, etc. with a final capturing and neutralization of the burned gases, thus ensuring environmental security of the installation. The result of waste processing is a gas product (CO, CO₂, H₂ and CH₂), which is passed through a purification system connected to gas plugs (or gasholder for consumers) to be used for the recovery of electric and thermal energy, and a liquid product (mixture of hydrocarbons) that can be used as black oil M-40 or as diesel oil. Ash residues and the dry fraction (gyps and chalk) can be used as construction materials.

IUD installations processing capacity will be 0.5; 1.0 and 5 tons/hr. The present installation is meant for the processing of wastes of timber, rubber, household, slurry coal, useless bad brown coal. Also there will be carried out tests of processing biological-medical wastes.

Technological processes in the IUD installations are sealed and monitored remotely by the operator. Monitoring of the waste utilization products, including the content of the gas product, is controlled by built-in gas analyzers and should correspond to the parameters established by the respective technical instructions, whereas the liquid fraction – by standardized methods for petroleum products.

The IUD-2005 waste utilization installation was experimentally tested at the wood processing enterprise of the town of Soldanesti. Laboratory investigations of emissions and

final products were tested at the laboratories of the State Ecological Inspection, CMP Soldanesti and the airport departmental laboratory of Odessa, Ukraine. The performed investigations have shown no surpassing of limits for dangerous substances in the occupational environment. With a view of performing a more thorough study of the liquid fraction a preliminary agreement was obtained with the Institute of Petroleum and Gas of Ploesti, Romania.

Based on the stated above, the State Sanitary-epidemiologic Service of the Republic of Moldova CONFORMS the Technical instructions to the IUD-2005 PT MD 13-40170203-001:2005 waste utilization installation developed by “Mitcan” SRL.

“Mitcan” SRL shall ensure the development and coordination of the waste processing and utilization technological process according to the procedure provided by the existing legislation.

The present certificate is effective until 10.11.2010.

State deputy-chief medical sanitation officer
of the Republic of Moldova *Signature and Seal* Ana Volneanschi

Traducerea acestui text din limba română în limba engleză a fost efectuată la biroul de traduceri «Translation Bureau CORCIMARU» de către traducătorul titular Ruslana Corcimaru la 31 ianuarie 2007.

The translation of this Text from Romanian into English has been performed at “Translation Bureau CORCIMARU” by the translator on the staff Ruslana Corcimaru on the 31st of January 2007.

Semnătura traducătorului
Translator's signature

