



Date:25/06/19

UNIDO CLARIFICATION NOTE no. 1

Request for Proposal (RFP) No. 1100124534

**PROVISION OF EQUIPMENT AND SUPPLIES AND RELATED SERVICES (TURNKEY) FOR SETTING UP
A NATIONAL POPS/ODS DISPOSAL FACILITY IN BELARUS**

SAP ID (150105)

**PLEASE BE INFORMED OF THE EXTENSION OF THE SUBMISSION
DEADLINE UNTIL 26 JULY 18:00 hours Vienna CET.**

Questions	Answers
<p>1.) We would kindly request for additional data about the waste composition (waste parameters). These data are indispensable to size the incinerator system, to estimate the quantity of different consumables, to define the energy recovery unit, to compute CO2 emissions and ash residues, and so on. All are crucial to engineer a hassle-free operating incineration system. For this reason, can you send us following authentic data for each waste type that the incinerator should process?</p> <p>Waste composition, per waste type:</p> <p>a) Mean calorific value (kJ/kg) b) Calorific value type (LCV or HCV) c) Consistency (dry, sludge, liquid, gas) d) Water content (mass%) e) Dry matter content (mass% of total, say dried at 105°C during X hours) f) Ash content, after heating to 600°C (mass%) g) Chlorine (Cl) (mass%) h) Sulphur (S) (mass%) i) Fluorine (F) and other halogens concentration (mass%) j) Nitrogen (N), if available as hydrocarbon (as mass% of total) k) Mercury (mg/kg waste) l) Other specific compounds, if applicable"</p>	<p>1.) Please be informed that the type of input material is the following: Waste consisting of, containing or contaminated with POPs and ODS (obsolete pesticides, including chlorinated; soils contaminated by obsolete pesticides and PCB; medical waste; PCB oils in transformers and capacitors), ODS (liquid and gaseous).</p> <p><u>Explanations with regards to composition of waste:</u></p> <p>1) mixture of unknow obsolete pesticides (OPs) is 97% of total amount of OPs in the country that stors in 79 rural storages (1 559 tons) and in the CUE "Complex for Processing and Disposal of Toxic Wastes of the Gomel Region" (4 522 tons). This amount include 50% soils contaminated by OPs, 49% solid OPs, 1% liquids and sludges of OPs.</p> <p>The calorific value of waste is very different and depends of type and aggregate condition of OPs and contaminated soils described above.</p> <p>Is expected that the low calorific waste will be mix with high and middle calorific waste to provide necessary burning value.</p> <p>Natural gas or oils can add a calorific value to burning process if needed.</p> <p>The mass percentage of Chlorine (Cl), Sulphur (S), Fluorine (F) and other halogens</p>

	<p>concentration, Nitrogen (N), Mercury (Hg) and other specific compounds in the mixture of unknown obsolete pesticides are very different and depends of type and aggregate condition of OPs and contaminated soils described above.</p> <p>2) PCBs oils - approximately 1 500 tons of PCB oils in 300 transformers and in more than 40 000 capacitors. Calorific value of PCBs oils (sovtol) is approximately 2.000 kcal/kg</p> <p>3) ODS gases and liquids. Mixed ODS gases.</p> <p>4) Medical waste. Organic and inorganic compounds. This type of waste can be used to add calorific value of burning process.</p> <p>We offer the opportunity to carry out testing on samples of waste during the development stage.</p>
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