

Annex No. 1

Detailed description of the subject of work, incl. technical specifications

1. The technical upgrade of the flow-through analyzer of ions Alliance (HIM 9051011347) will consist in the execution of the following tasks and sub-deliveries:

1.1.	Analyser system interface: Replacement of the existing 4-channel FDS system interface plus DT-adapter box by the latest version of FDI (Flow Data Interface). FDI interface including power supply, prepared to connect 6 Analytic units and ready for upgrade to Win10 system control.
1.2.	Multicontroller interface and power supply for conversion of existing autosampler from FDS control to direct PC software control under Win7/Win10, connected by USB
1.3.	Change of System Control and Data Evaluation workplace from present Win XP into Win7/Win10, CFM Analyser Software version for FDI interface communication and PC workplace with Win7pro32. Free upgrade into Windows 10 and new CFS software licence included.
1.4.	Change of four existing single beam colorimeter against new dual-beam CFA colorimeter with LED light source instead of present halogen lamp. New flowcell and wavelength filter. Four new colorimeter electronic modules with integrated dualbeam linearisation of logarithmic detection signal, control panel with display for extinction value and incubation temperature
1.5.	Analytik Units with method tray, use of existing UV-digesters, heating bath and glassware after basic cleaning. New reagent aspiration with containers inside the analytic unit

2. The upgraded instrument must minimally meet the following technical parameters and service requirements:

02. Jan	Required detection limits for individual channels:
	N-NO ₂ : 0,001 mg/l
	TN: 0,1 mg/l
	N-NO _x : 0,1 mg/l
	N-NH: 0,01 mg/l
	TP: 0,01 mg/l
	P-PO ₄ : 0,01 mg/l
	Cl: 1 mg/l
2.2.	2 year warranty period
2.3.	Warranty and post-warranty repairs to be carried out by: Alliance Instruments GmbH Salzburg
	IČO (company's registration no.): IČO: ATU 33899902 telephone: _____ E- mail: _____