

Technical Compliance Sheet – AAS 1200 Plus tender – Moldova

Technical Specifications	Comments
For the determination of heavy metals Al, Na, K;	Yes
With the application of flame	Yes
With the application of graphite furnace	Yes
With automatic change and alignment of atomizers	Yes, Automated, single-click change among Flame/Graphite/VG with a computer controlled, motorized atomizer position adjustment platform.
Czerny-Turner correction of optical aberration or equivalent;	Yes, Czerny-Turner mount monochromator;
Deuterium lamp correction to present additional correction for flame and oven analysis, double correction	Yes, Deuterium lamp with 1 ms rapid response for accurate correction. Electronic modulation of 1 kHz with deuterium current control and motorized aperture attenuation
Automatic turret with at least 6 positions	Yes, 8-lamp turret with automatic lamp selection, positioning and alignment
Pure titanium atomizer for working in oxy-acetylene flame	Yes, Titanium burner head available
Automatic adjustment of the height of the atomization systems; automatic adjustment for gas flows	Yes
Covered spectrum in the minimum range: 185 ... 900 nm	Yes, wavelength range - 185-900nm
optical system: double optical and electronic beam;	Yes
minimum focal length: 298 mm or better:	Yes, 300mm/min
minimum diffraction grating lines: 1800 lines / mm	Yes,
the width of the spectral band should be at least: 0.2; 0.7; 0.7 (low) and 2.0 nm with automatic selection in min 4 steps	Yes
detector: photomultiplier (UV-Vis) / photodiode (Vis-NIR) or equivalent	
different working modes, minimum: emission / absorption without correction, absorption with correction D ₂ , absorption with additional correction	Yes
different working modes, minimum: emission / absorption without correction, absorption with correction D ₂ , absorption with additional correction	Yes
equipped with fuel loss testing system;	Yes
automatically adjustable acetylene flow before oxidant change	Yes
gas pressure monitoring with a warning system displayed on the display and automatic extinguishing system	Yes, Optional module, available at additional cost

Graphite furnace with background correction with deuterium lamp and additional background correction and without correction	Yes
Temperature control should be performed in two ways: minimum by direct reading with infrared sensor and indirect reading with current loop;	Yes
Average lifetime for the pyrolytic graphite tube: minimum 1000 injections;	Yes
To have the possibility to schedule at least 20 time events, ramps or temperature levels;	Heating programs of up to 30 steps. Each step can be programmed separately
Possibility to work with both the flame system and the graphite furnace or equivalent	Yes
Injection volume in the range of at least 2... 100 ul;	Up to 1000µL, selectable in increments of 1µL
<p>The set on delivery must include:</p> <p>Atomic absorption spectrometer with flame and graphite furnace with automatic change and alignment of atomizers obligatorily will also have the following mandatory components for the work process , including for sample preparation, as follows:</p> <p>Autosampler for flame and graphite furnace-1 unit</p> <p>Spare graphite contacts - 1 set.</p> <p>Graphite cuvettes - 20 pcs.</p> <p>Spray chamber gaskets - 1 set.</p> <p>Spare chamber for spray chamber - 1 pc.</p> <p>Autosampler tubes - 5 sets.</p> <p>Graphite furnace vials - 2000 units</p> <p>Vials for flame - 1000 units</p> <p>Lamp for the determination of Al - 2 units</p> <p>Water circulator - 1 unit</p> <p>Air compressor - 1 unit</p> <p>Acetylene bottle with reducer - 1 unit</p> <p>Argon cylinder with reducer - 1 unit</p> <p>Reference standard of Al - 1 set</p> <p>Reference standard of Na -1 set</p> <p>Reference standard of K-1 set</p> <p>PC with JET laser printer with 2 cartridges served on the territory of the Republic of Moldova - 1 set</p>	yes