



## PURCHASE REQUEST

Dept./Office: **PRCRTC**PR #: **STF-2021-03-00121**Date: **03-25-2021**Section/End-User: **Cynthia Dolores V Godoy**Category: **Laboratory Equipment**Funding Source: **Special Trust Fund**Project Title/Code: **CASL-2020**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	<b>Atomic Absorption Spectrophotometer</b>	lot	1	1,854,108.00	CYNTHIA DOLORES V. GODOY	1,854,108.00

### Specification:

- double beam spectrophotometer for fast sequential flame multi-element absorption and emission.
- Instrument is capable of measuring at least four elements in the fast sequential mode. in single sample.
- All elements determined sample by sample in fast sequential AAS, and all samples determined element by element by conventional AAS
- Provides dramatic reduction in sample analysis time from reduced sample delay
- Lamp support: four fixed lamp positions with fast automatic lamp selection to enable fast sequential multi-element determination sample by sample
- All lamps operated simultaneously in Fast Sequential mode
- Auto pre-warming of next lamp in sequence.
- Fitted with high speed, high intensity deuterium background corrector covering wavelength range 185-425 nm. with automated self calibrating Czerny-Turner monochromator and automated slit selection
- Gas control: Hammer programmable gas control/PC controlled gas flows with automatic setting of gas flows for each element
- Flame safety system: Separate ignite and flame-off buttons. Safety interlocks monitor burner type, liquid trap, pressure relief bung, flame shield, flame operation, mains power oxidant safety reservoir and deuterium lamp cover
- supplied with 6 pcs. hollow cathode lamps (single element) (K, Ca, Mg, Na, Cu, Zn)
- Electrical requirements: Single phase AC supply with three-wire system terminated at an appropriate receptacle. 220 or 240 VAC  $\pm 10\%$  50/60 Hz. Rated current 15 A.. The power supply should be on a separate mains circuit protected by delayed action fuses and/or circuit breakers.
- Spray chamber: Fluorinated high density polyethylene suitable for for both organic & inorganic solutions
- Typical performance: Absorbance  $>0.9$  with precision of  $<0.5\%$  RSD from ten 5 second integrations for 5 mg/L Cu standard.
- With 6 pcs. hollow cathode lamps, branded computer windows 10 OS, 19" monitor and desk jet printer
- Laptop
- On-site installation with Exhaust system and ductworks
- Includes training of end-users at site
- Offer includes one year warranty on parts and service under normal use of the instrument
- on-site

-Supplied with software

**TOTAL**

**1,854,108.0**


Purpose: To purchase equipment for the CASL

Checked by:

  
**JACOB GLENN F. JANSALIN**

**TWG - Laboratory Equipment**

Funds Available:

  
**MYRNA S. PANCITO**

**HEAD, BUDGET OFFICE**

Signature:

Printed Name:

Designation:

Requested by:

  
**CYNTHIA DOLORES V. GODOY**

**END USER**

Noted by:

  
**CYNTHIA DOLORES V. GODOY**

**UNIT HEAD, PROJECT LEADER**

Approved by:

  
**EDGARDO E. TULIN**

**PRESIDENT, VSU**