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PR-2023-0815-138375



Republic of the Philippines
VISAYAS STATE UNIVERSITY
 Visca, Baybay City, Leyte

PURCHASE REQUEST

PPMP No. : 9-5-188-2023-6-0-6

PR No.: GF-2023-08-01749

Date: 08-15-2023

Dept./Office: DFST

Category: Laboratory
Equipment

Duration: 2023-07-01

Section/End-User: Ivy C. Emnace

to

2023-12-31

Funding Source: General Fund - MOOE

Project Title/Code: VSU-IP-2023-9

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Ultrasonic Milk Analyzer: Lactoscan SAP	unit	1	48,500.00	IVY C. EMNACE	48,500.00

Specification:

Ultrasonic Milk Analyzer (Lactoscan SAP)

Features

- User-friendly ultrasonic milk analyzer: simple in operation, maintenance, calibration and installation;
- Automatic cleaning with two peristaltic pumps;
- Portable and compact design;
- Very small quantity of milk required;
- Low power consumption;
- No use of hazardous chemicals;
- Measuring accuracy adjustment can be done by the user RS232 Interface;
- ESC POS Printer Support;
- Two samples self-calibration;
- Easily readable results;
- Possibility of connecting pH probe;
- Integrated pH and conductivity measuring;
- Function Real time clock;
- USB;
- One year full warranty

Electrical Parameter

- AC Power Supply voltage: 220V/110V
- DC Power Supply voltage: 12V to 14,2V
- Power Consumption: 30W max

Environmental Conditions

- Ambient air temperature: 10°C – 43°C
- Milk temperature: 1°C – 40°C

- Relative humidity: 30% – 80%

Parameter	Measure Range	Accuracy
FAT	from 0.01% to 45%	±0.06%
Solids-non-fat (SNF)	from 3% to 40%	±0.15%
Density	from 1015kg/m ³ to 1160kg/m ³	±0.3kg/m ³
Protein	from 2% to 7%	±0.15%
Lactose	from 0.01% to 6%	±0.2%
Added water	from 0% to 70%	±3
Milk sample temperature	from 1°C to 40 °C	±1%
Freezing point	from -0.4°C to -0.7°C	±0.001%
Salts	from 0.4% to 1.5%	±0.05%
pH	from 0 to 14	±0.05%
Conductivity	from 3mS/cm to 14mS/cm	±0.05%
Total solids	from 0% to 25%	±0.17%

TOTAL

48,500.00

Purpose: Project

Checked by:

ELIZABETH S. QUEVEDO

Funds Available:

ALICIA M. FLORES

TWG - Laboratory Equipment

HEAD, BUDGET OFFICE

Signature:

Printed Name:

Designation:

Requested by:

IVY C. EMNACE

END USER

Noted by:

IVY C. EMNACE

UNIT HEAD, PROJECT LEADER

Approved by:

EDGARDO E. TULIN

PRESIDENT, VSU