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PR-2023-0512-116888

OP 5/26/23



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

PURCHASE REQUEST

PPMP No. : 30-1-900-2023-3-0-1

PR No.: STF-2023-05-00843

Date: 05-12-2023

Dept./Office: DME

Category: IT Supplies and
 Equipment

Section/End-User: ANTONETTE S. CRUZ

Funding Source: Special Trust Fund

Project Title/Code: DME Software 2023-01

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Homer Energy Simulation	unit	1	50,000.00	JUNDY R. CASTIL	50,000.00

Specification:

- software that navigates the complexities of building cost effective and reliable hybrid microgrid and grid-connected systems that combine traditionally generated and renewable power, storage and load management
- simulation: HOMER is a simulation model
- optimization: simulated systems are sorted and filtered according to criteria defined to see the best possible fits
- sensitivity analysis: model the impact of variables such as wind speed, fuel costs, etc and see how the optimal system changes with these variables

2	MatLab Simulation	unit	1	150,000.00	JAKE ERNEST P. BINUEZA	150,000.00
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Specification:

- programming and numeric computing platform to analyze data, develop algorithms and create models
- high-level language
- interactive environment
- mathematical functions library
- Application Program Interface (API)
- Machine Learning, Neural Networks, Beyond Statistics

3	NIST REFPROP Ver. 10	unit	1	50,000.00	EDGARDO C. OCHAVILLO	50,000.00
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Specification:

- computer program distributed through the Standard Reference Data Program of NIST that provides thermo-physical properties of pure fluids and mixtures over a wide range of fluid conditions
- provide most accurate thermo-physical property models for a variety of industrially important fluids and fluid mixtures
- new function is available to allow users to call Refprop with one single command

	TOTAL					250,000.00
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Purpose: Use for lab classes

Checked by:	Funds Available:
 DIONESIO I. ESTUPA TWG - IT Supplies and Equipment	 ALICIA M. FLORES HEAD, BUDGET OFFICE

Signature: Printed Name: Designation:	Requested by: 	Noted by: 	Approved by: 
	ANTONETTE S. CRUZ	BEATRIZ S. BELONIAS	EDGARDO E. TULIN
	END USER	UNIT HEAD, PROJECT LEADER	PRESIDENT, VSU