



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

Visca, Baybay City, Leyte

# **PURCHASE REQUEST**

PPMP No.: **PPMP-2024-090224-0387** 

PR No.: STF-2024-09-01652

Date: 09-05-2024

Dept./Office: DCE

Category: IT Supplies and

Section/End-User: Haide B. Cuevas

Equipment

Funding Source: Special Trust Fund

Project Title/Code: STF PY

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Single-Package Licensed Software	set	1	200,000.00		200,000.00

### Specification:

#### Structural Engineering:

- Supports both linear and nonlinear static analysis, including large deformation analysis.
- · Performs dynamic analysis: seismic, response spectrum, and time history analysis.
- · Tools for designing and optimizing steel structures.
- · Tools for designing foundations (footings, piles, and mats).
- · Tools for designing reinforced concrete structures (beams, columns, and slabs).
- · License: Annual Student License for 30 seats.

## **Construction Engineering and Management:**

- Load generators for seismic (UBC, IBC), ASME wind and snow, and bridge loading (BEAVA).
- Virtual construction planning with 4D models, interoperable with over 50 CAD applications.
- · Breaks down design models for construction.
- Interact and augment engineering data for construction tasks.
- Access models in the field for planning, reviews, or inspections.
- · License: Annual Student License for 30 seats.

#### Geotechnical Engineering:

- · Automatic swept meshing for more efficient meshes.
- · Elastoplasticity for beams and plates.
- Nonlinear geogrids: Elastoplastic (N-?) and viscoelastic (time-dependent).
- Full 64-bit software.
- · Plastic calculation, consolidation analysis, and safety analysis.
- · License: Annual Student License for 30 seats.

### Water Resources Engineering:

- . Thematic mapping with property-based color coding, symbology, and annotations.
- · Dynamic, multiparameter, and multiscenario graphing.

- · Scenario and element comparison.
- · Advanced tabular reporting with FlexTables.
- · Creation of Google Earth (KML) files.
- License: Annual Student License for 30 seats.

### Transportation Engineering:

- Design roadways with precise horizontal and vertical alignments.
- Implement superelevation and transition curves for improved vehicle handling and safety.
- Perform geometric design tasks: curve design, sight distance analysis, and turn lanes.
- Design and analyze drainage systems, including stormwater runoff and retention systems.
- Efficiently handles large and complex roadway projects with advanced processing capabilities.
- License: Annual Student License for 30 seats.

	TOTAL				200,000.00	
Purpose: For C	Civil Engineering laborator	y use as one of	the requirement	nts of CHED for the Ce	ertificate of Program Compliance (COPC	
Checked by:	NORMAN O, VIL	LAS	u .	Funds Available:	CIAM, FLORES	
	TWG - IT Supplies and	Equipment		HEAD, BUDGET OFFICE		
Signature: Printed Name:	Prepared by:		EPIFANIA	G. LORETO	Approved by:  PROSE IVY G. YEPES	
Designation: UNIT HEAD, PF			OJECT LEADER	PRESIDENT, VSU		