



TECHNICAL SPECIFICATIONS

SUPPLY, DELIVERY, AND INSTALLATION/CONFIGURATION OF VARIOUS COMPUTER SOFTWARE UNDER THE DIGITAL AGRICULTURE PROJECT (SUB-PROJECT: ENHANCED FARM-TO-MARKET ROAD (FMR) AND AGRI-COMMODITY GEODATABASE)

A. RATIONALE

The Bureau of Agricultural and Fisheries Engineering (BAFE) is mandated under Section 24 of Republic Act No. 10601 to prepare, evaluate, validate, and recommend engineering plans, designs, and technical specifications on agri-fisheries mechanization and infrastructure projects. The Engineering Plans, Designs, and Specifications Division (EPDSD) of the BAFE has consistently and diligently performed its function related to engineering plans, designs, and specifications through subscription of computer softwares due to limited fiscal resources.

In consideration of the impact of implementation of shovel ready programs and projects through the preparation and/or review of detailed engineering drawings (DED), the use of perpetual computer software is essential to produce quality DEDs and structural analysis thereby ensuring structural integrity of agricultural and fisheries infrastructure projects.

B. SCOPE OF WORK

The winning bidder shall have the following scope of work:

- 1) to cover the supply, delivery, and installation of all procured computer software as listed in Table 1;
- 2) to provide necessary technical support services and do necessary configuration during the delivery/deployment period;
- 3) to secure licensed computer software (perpetual) with service and warranty for at least one (1) year; and
- 4) to deliver, install/configure, and test the computer software (perpetual) at the BAFE Office located in Sugar Center Compound, North Avenue, Diliman, Quezon City.

C. APPROVED BUDGET FOR THE CONTRACT

The ABC for the **SUPPLY, DELIVERY, AND INSTALLATION/CONFIGURATION OF VARIOUS COMPUTER SOFTWARE UNDER THE DIGITAL AGRICULTURE PROJECT**



(SUB-PROJECT: ENHANCED FARM-TO-MARKET ROAD (FMR) AND AGRI-COMMODITY GEODATABASE) is Four Million Pesos Only (Php 4,000,000.00) inclusive of all applicable government taxes and charges, professional fees, and other costs.

D. TECHNICAL SPECIFICATIONS

Table 1. Technical Specifications

PARTICULAR AND TECHNICAL SPECIFICATIONS	QUANTITY	UNIT COST (in PH Pesos)	TOTAL AMOUNT
<p>1. Structural Design Software (Vertical)</p> <p>- Perpetual</p> <ul style="list-style-type: none"> ● Version: Latest ● Usage: <ul style="list-style-type: none"> - must provide structural analysis and design of towers, buildings, culverts, bridges and stadiums; - must be capable of analyzing any structure exposed to static loading, dynamic response, wind, earthquake, and moving loads; - can generate loads as per buildings codes of selected countries; - must have analysis such as linear static, response spectra, time history, cable, imperfection, pushover and non-linear; - can generate animations, view displacements, stress contours, and user report; - must have graphical capabilities that can create models quickly and accurately using structural grids, tooltips to highlight data, frame generators and a structure wizard; - must be suitable for almost all types of material for designing i.e. concrete, steel, cold-formed steel, timber and aluminum structures; 	3	899,850.00	2,699,550.00



<ul style="list-style-type: none"> - must have design, detailing, and material takeoff of reinforced concrete components; - must be compatible with existing Computer Aided Design Software ● Operating System: Windows ● With at least 1-year After-sales support ● With basic technology transfer seminar/training (at least 10 participants) 			
<p>2. Structural Design Software (Horizontal) - Perpetual</p> <ul style="list-style-type: none"> ● Version: Latest ● Usage: <ul style="list-style-type: none"> - can model the following: RC Slab Bridge / RC Deck Girder Bridge, PSC Bridge, Culverts (Slab and Box), Cable-Stayed Bridge, Suspension Bridge, Superstructure Components, and Substructure Components; - must be capable of analyzing Finite Element Analysis (FEA), Static Analysis, Dynamic Analysis, Geometric Nonlinear Analysis, -P-Delta Analysis, Large Displacement (Forward/Backward) Analysis, Moving Load Analysis, Construction Stage Analysis, and Buckling Analysis; - must have design codes such as AASHTO LFD, LRFD / AISC LRFD & ASD, ACI 318 / CAN/CSA-S6, AS, EC 2, EC3, EC4; - must be interoperable with any CAD software (Import/Export: AutoCAD, midas CAD); - can import other Structural Analysis Software (.std files); 	1	1,300,450.00	1,300,450.00



- can visualize 2D, 3D, Animation, and Rendered View. ● Operating System: Windows ● With at least 1-year After-sales support ● With basic technology transfer seminar/training (at least 10 participants)			
TOTAL			4,000,000.00

E. INSPECTION AND TESTS PROCEDURE

- a) The Inspector and/or Supply Officer can reject any software or part thereof that fails to pass any installation, test and/or inspection or does not conform to the technical specifications.
- b) The Inspector and/or Supply Officer will issue an Inspection and Acceptance Report (IAR) upon determining that the installed computer software is usable.

F. PRODUCTION AND/OR DELIVERY SCHEDULE

Goods and services shall be delivered within Thirty (30) calendar days from the receipt of the Notice to Proceed (NTP). The delivery and installation date must fall within weekdays from Monday to Friday only and shall be delivered at BAFE Office, Sugar Center Compound, Annex II Building Extension, North Avenue, Diliman, Quezon City.

G. PAYMENT TERMS AND CONDITIONS

One-time payment shall be made upon completion of the supply, delivery, installation/configuration, and acceptance of the computer softwares subject to submission of the following documents:

- a. Certificate of Warranty for all computer software; and
- b. Sales Invoice/Delivery Receipt.

H. MODE OF PROCUREMENT / AWARDING

The supply, delivery, and testing of perpetual computer softwares will be procured through Public Bidding. The awarding of this project shall be done by LOT.



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