



Annex A: Terms of Reference



Republic of the Philippines
KALINGA STATE UNIVERSITY
Tabuk City, Kalinga

TERMS OF REFERENCE

Consultancy Services

Project Title : Drafting of Various Maps for KSU Campuses.

1. PROJECT DESCRIPTION

1.1 Background and Rationale:

The strong link between the long term, medium term and short term plans to the site development plan of a State University is a significant factor towards achieving SUCs vision and mission. The site development plan as part of CHED's immediate requirement for SUCs to come up with the Land Use Development and Investment Plan (LUDIP) reflects the Physical attributes of an SUC in the near future. With the presence of this requirement, Future developments are rationalized and could be easily estimated subject for the consideration of Government Funding.

The Kalinga State University has already started crafting its LUDIP. It had already identified future projects and developments for its campuses. However, the State University seeks technical support to translate all its inputs in maps with precision. The State University seeks a GIS expert to draft various maps needed for the LUDIP.

1.2 Specific Objectives

The specific objectives of the project are the following:

- 1.2.1 To come up with various options to create geographic information to complete the Land Use Development and Investment Plan (LUDIP) of the Kalinga State University;
- 1.2.2 To provide draft of the location maps of the KSU campuses;
- 1.2.3 To provide satellite images reflecting the boundaries of the KSU Campuses;
- 1.2.4 To provide draft of a land use maps of the above-stated KSU campuses;
- 1.2.5 To over-lay boundaries of KSU campuses to Digital Elevation Maps;
- 1.2.6 To provide maps reflecting 40 years site development plan of the KSU campuses;
- 1.2.7 To provide all geographic information and details significant to LUDIP.



2. SCOPE OF THE CONSULTANCY SERVICE

The Scope on the drafting of maps is limited to the following KSU landholdings:

- a. KSU Bulanao Campus
- b. KSU Dagupan Campus
- c. KSU Rizal Campus (3 lots)
- d. KSU Experimental Area (15 hectares)
- e. KSU Research and Cattle Production Area (380 hectares)
- f. KSU Pinukpuk Campus

All relevant maps to be provided for the Land Use Development and Investment Plan shall be based on the inputs of the Kalinga State University. In particular, the Consultant shall provide the following:

2.1 DIGITAL ELEVATION MODEL (DEM)

- DEM file shall be provided by the Kalinga State University to be acquired from NAMRIA
- KSU campuses boundaries shall be over-laid to the Digital Elevation Model.

2.2 LOCATION MAPS

- All KSU campuses shall be highlighted in location maps as per municipality. It shall also reflect the boundaries per campus.

2.3 SATELLITE IMAGES

- KSU shall provide GPS Coordinates of all boundary points of KSU campuses for reference. The GIS specialist shall advise the most appropriate scale for these satellite images

2.4 LAND USE MAPS

- Land use maps of all KSU campuses shall reflect the existing land use, the land use for the next 5 years and the land use for the next 40 years.
- Land use maps shall reflect the area in hectares per land use. It shall be indicated through color coding.

2.5 SITE DEVELOPMENT PLANS

- The Site Development plans of all KSU campuses shall reflect the existing, the site development plan for the next 5 years and the site development plan for the next 40 years.
- The existing Site Development plans initially drafted by KSU shall be used as reference so as reflect the positioning of future developments. The GIS specialist shall polish the initial maps by suggesting more realistic dimensions of future building structures and future land improvements. Hence concepts are subject for approval of the Kalinga State University.
- The GIS specialist shall provide the floor area requirement per future building structures and land area requirement per future land improvements

2.6 GEO-HAZARD MAPS

- KSU campuses shall be also over-laid in Geo-hazard maps established by the Mines and Geosciences Bureau (MGB) particularly landslide maps as well as location of fault lines.



3. COMMUNICATIONS

All communications about this project shall be addressed to the President of the Kalinga State University. During the bidding process, copies of the communication should be provided to the BAC Chairperson and the Head of the BAC Secretariat. A copy of technical queries should also be forwarded to Dr. Lope Buen and Engr. Rhonjhon Garming.

3.1	President:	DR. EDUARDO T. BAGTANG
3.2	BAC Chairperson	DR. EDNA P. YUMOL Vice President for Administration AND Finance,
3.3	BAC Secretariat	RONALD B. DALUPING BAC Secretariat
3.4	Planning and Strategy Office	DR. LOPE T. BUEN Director for Planning and Strategy
3.5	Chairman, Committee for GIS maps	ENGR. RHONJHON R. GARMING

4. ELIGIBILITY REQUIREMENTS:

4.1 The eligibility requirements for this consultancy scheme shall comply with the applicable provisions of Sections 23-24 of IRR of RA 9184.

4.2 Specialized

The Consultant shall meet the following minimum qualifications:

- Degree in Geography, Computer Science, Engineering or related field
- 5 years' experience in GIS works
- Experience in mapping tools such as ArcGIS and QGIS and other related mapping software
- Experience in using remote sensing tools such as Satellite Images and DEM.

5. APPROVED BUDGET COST (ABC)

The total approved budget cost for the **Drafting of Various Maps for KSU Campuses** is TWO HUNDRED FIFTY THOUSAND PESOS (PhP250, 000.00).



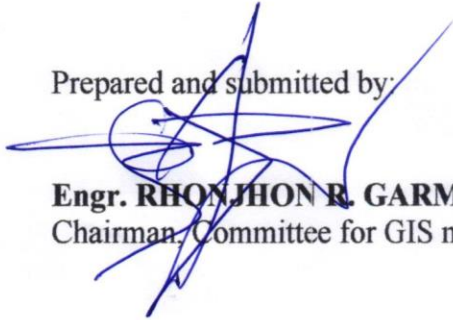
6. TIME FRAME

The GIS Specialist is required to complete the Project within an indicative period as shown below, to start upon the Notice to Proceed. The time frame to be followed for the project is as follows:

Schedule:

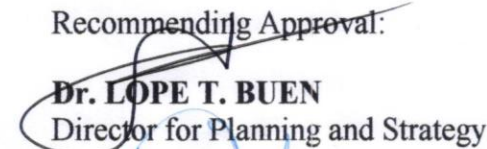
ACTIVITY	MONTH									
	1	2	3	4	5	6	7	8	9	10
Bidding	→									
Drafting of and approval of Maps	→									

Prepared and submitted by:



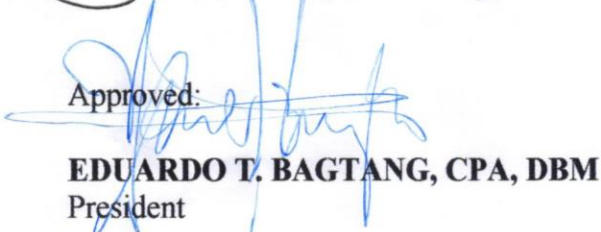
Engr. RHONJHON R. GARMING
Chairman, Committee for GIS maps

Recommending Approval:



Dr. LOPE T. BUEN
Director for Planning and Strategy

Approved:



EDUARDO T. BAGTANG, CPA, DBM
President