

**GIZ Participatory and Integrated Land Use Planning Project**

**PN: 17.2206.5-001.00**

**Terms of Reference**

**for**

**Satellite Image Procurement for Amba 02 and Konika Kebeles in  
Benishangul Gumuz Region**

January 20201

Addis Ababa

Ethiopia

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## **1. Introduction**

GIZ-Participatory and Integrated Land Use Planning Project (PILUP) project has been working in selected woredas in Benishangul-Gumuz and Amhara regions to promote the principles, standards, and instruments of Participatory and Integrated Land Use Planning (PILUP) at different administrative levels. One of the prerequisite activities of the project includes the preparation of large-scale base map that will be used as a reference to PILUP preparation. Although there are different types of geospatial data sources that can be used as input to prepare large scale base map, a higher resolution satellite imagery is one of the most optimum inputs in terms of cost, time and quality perspectives. As a result, the project is seeking to procure geometrically and radiometrically corrected a recent high-resolution satellite image for the selected two kebeles in Benishangul Gumuz Region. The selected project areas cover a total area of 109 km<sup>2</sup>.

Therefore, we would like to invite local satellite image suppliers that are interested in to participate in this open tender to provide the required satellite image.

Bidders are highly expected to provide detail technical and financial proposal based on product specification presented in this terms of reference (ToR).

## **2. Scope of the work**

The scope of this tender is limited to deliver a high resolution orthorectified, pan-sharpened and color balanced orthomosaic satellite image for selected two kebeles in Benishangul Gumuz Region of Ethiopia covering a total area of 109 square kilometers.

## **3. Objective**

The main objective of this assignment is to provide satellite image which is pan-sharpened, color balanced and orthorectified satellite image with spatial resolution of 50 cm or better from archive or a new acquisition.



#### 4. Area of Interest (AOI)

The orthorectified high resolution satellite image will be used primarily to prepare large scale base maps for PILUP preparation for selected two kebeles namely Amba 03 (Assosa Zone, Assosa Woreda) and Konika (Assosa Zone, Bambasi Wereda ) in Benishangul Gumuz Region. The location and the boundary of each Kebele that will be covered by the orthorectified satellite image is indicated on Figures 1-2 bellow.

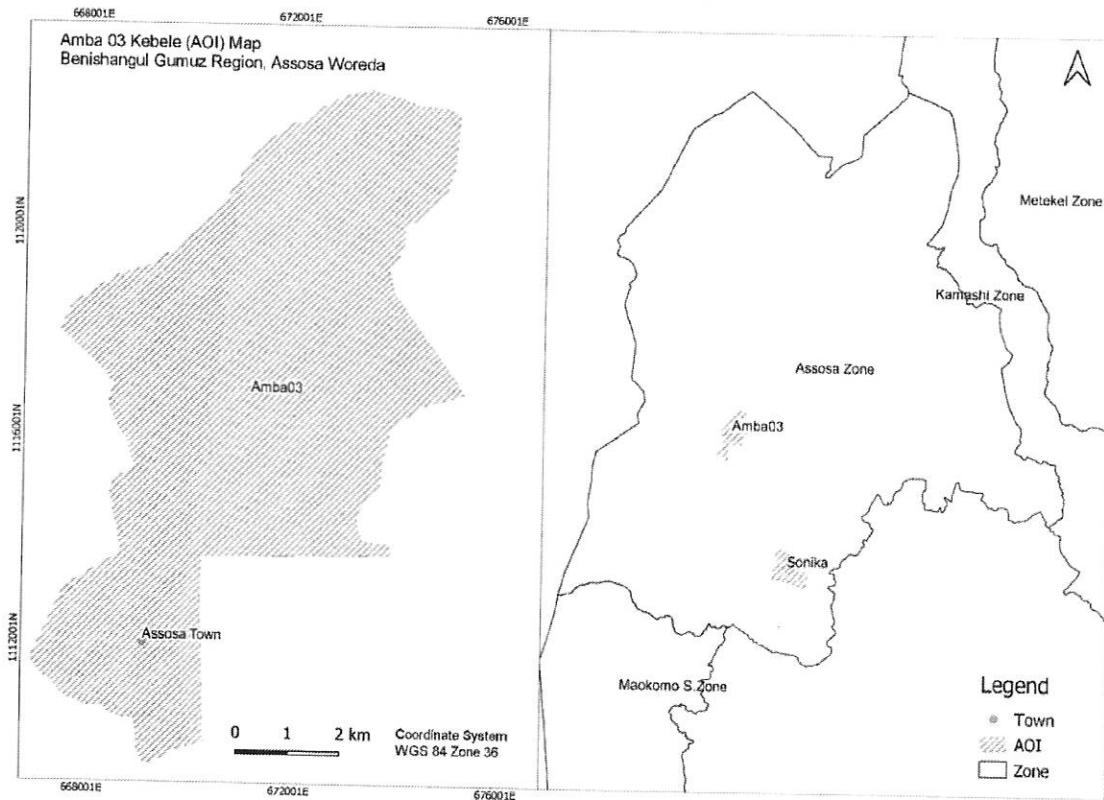


Figure 1. Map of Amba 03 Kebele (Area of Interest -AOI), Assosa Woreda, Assosa Zone, Benishangul Gumuz Region.

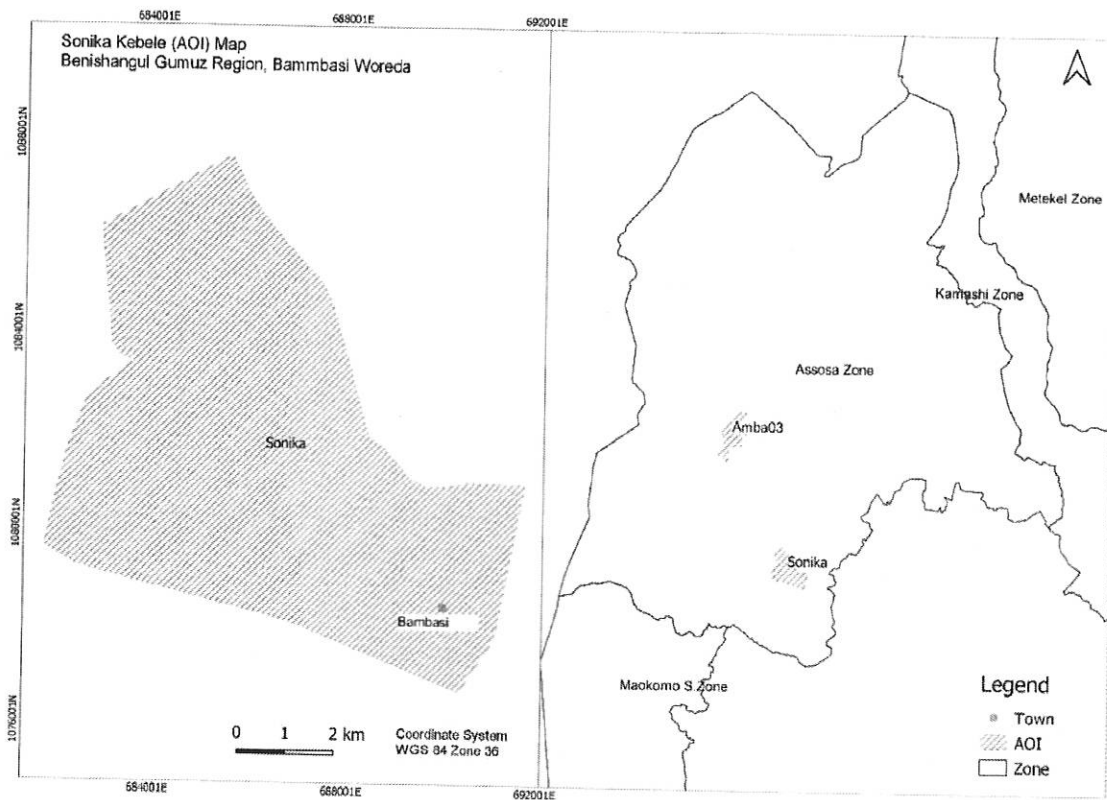


Figure 2. Map of Sonika Kebele (Area of Interest -AOI), Bambasi Woreda, Assosa Zone, Benishangul Gumuz Region.

S.No	Region Name	Zone Name	Kebele Name (AOI)	Area (Sq. Km)	Centroid Coordinate
1.	Benishangul Gumuz	Assoa	Sonika	56.2	X= 686344 Y= 1081585 WGS 84, Zone 36
2.	Benishangul Gumuz	Assoa	Amba 03	53.2	X = 671159, Y= 1116725 WGS 84, Zone 36
Total Area (Km <sup>2</sup> )				109.4	

Table 1. Area of Interest (AOI) XY coordinate (centroid) and total area.

Note: We will provide the boundary (area of Interest -AOI) of the kebeles in shapefile format via email to bidder.

## 5. Specification and Deliverable

The satellite image should meet the following minimum requirements:

S. No	Requirement	Specification
1	Spatial resolution	0.5 meter or better - (Panchromatic) 2 m: Multispectral:
2	Bands	RGB and Panchromatic
3	Radiometric Resolution (bits per pixel)	8 bit or better
4	Positional Accuracy per scene	4.5 meters CE90 or better without GCP
5	Collection Period	Must be collected during dry season preferably from December 2020 to February 2021
6	Area Coverage	As per the AOI KML file
7	Cloud Coverage	0 %
8	Cartographic Projection	UTM WGS 84, Zone 36
9	Metadata (Header file)	XML format is preferable
10	Delivery Time	Until February 28, 2021
12	Delivery Product	Pan-Sharpended and color balanced orthorectified mosaic
13	Resampling and compression	The input MSS and panchromatic image should not be subject to resampling and compression
14	Image Format	GeoTIFF (uncompressed)
15	Acquisition Mode	Mono
16	Data Source	Archive or new collection
17	Delivery Medium	Hard Drive (non- returnable)
18	End User license	Two licenses

Table 2: Satellite Image specification



## **6. Responsibilities and Commitments**

### **6.1. GIZ- Participatory and Integrated Land Use Planning (PILUP) project**

They are responsible for:

- Providing all necessary documentation and information required for the procurement.
- Assigning contact person from the project who is responsible for the facilitation
- Making payment for the service as per the contract of the assignment.

### **6.2. Service Provider**

Bidders willing to submit their proposal for this tender should comply the following requirements:

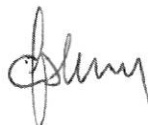
- Should be an authorized supplier, distributor or agent (reseller) for the required satellite imageries and authorization letter must be provided together with the technical proposal.
- Technical and financial proposal should be submitted separately. The technical proposal must include all technical details about the sensor and the imagery.
- All documents must be presented in English.
- The supplier shall report to the GIZ-PILUP project regarding the progress made towards the assignment.

## **7. Delivery Time**

The successful candidate is expected to deliver the imagery until February 28, 2021 for both Kebeles.

## **8. Price**

Eligible and interested bidders shall deliver a separate copy of financial proposal. The bidders are requested to provide a detailed breakdown of prices. Pricing shall be done on per kilometer square (unit) basis.



## 9. Evaluation Criteria

The service provider should fulfill the following criteria:

S. No	Requirement	Specification
1.	Spatial resolution	0.5 meter or better - (Panchromatic) 2 m: Multispectral:
2.	Bands	RGB and Panchromatic
3.	Radiometric Resolution (bits per pixel)	8 bit or better
4.	Positional Accuracy per scene	4.5 meters CE90 or better without GCP
5.	Collection Period	Must be collected during dry season preferably from December 2020 to February 2021
6.	Cloud Coverage	0 %
7.	Delivery Time	Until February 28, 2021
8.	Delivery Product	Pan-Sharpener and color balanced orthorectified mosaic
9.	Resampling and compression	The input MSS and panchromatic image should not be subjected to resampling and compression
10.	Image Format	GeoTIFF (uncompressed)

Table 3: Evaluation Criteria

