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Computer No. 136851
GOVERNMENT OF ARUNACHAL PRADESH
DEPARTMENT OF LAND MANAGEMENT
ITANAGAR

File No: LMD-14011/9/2023

Dated tanagar, ____ January, 2024

INVITING QUOTATION

The Department of Land Management, Government of Arunachal Pradesh invites sealed quotation from BSICS accredited, ISO 9001:2015 certified credible in Remote Sensing, Surveying and GIS Application for undertaking Cadastral Survey/Re-survey, Mapping in GIS environment and preparation of Record of Rights (RoR), etc of Raga Township under Kamle District and Rego Perging under Siang District, Boleng having geographical area of 5 SqKm each.

The preference shall be given to the empaneled Companies/ Firms with the DILRMP in such survey works or having working experience in the state of Arunachal Pradesh or undertaken such similar projects in any North Eastern States or Hilly Areas, etc.

The estimated cost of Rs.35.00 lakhs (Rupees Thirty-Five Lakhs) only is kept for Rego Perging under Siang District, Boleng and an estimated cost of Rs.30.00 lakhs (Rupees Thirty Lakhs) only for Raga under Kamle District.

The sealed quotation should reach the office of the Director of Land Management, Govt. of Arunachal Pradesh, Itanagar, in the Office Chamber of JT Director Land Management **on or before 19/02/2024 at 1400 hrs and the same will be opened on same day of 19/02/2024 at 1530 hrs in the office chamber of Director of Land Management, GoAP, Itanagar** or immediate next day, if the scheduled day happen to be a state holiday.

SCOPE OF WORK:

1. a) Establishment of GCP Coordinates and Preparation of GCP Register.
- b) GCP Data Collection and Densification of GCPs including Preparation of Base Map using High Resolution Satellite Imagery at the scale of 1:10000
- c) Conducting Survey of the plot boundaries and identification of their land use as per the DILRMP Guidelines.
- d) Erection of Permanent Monument for demarcation of settlement boundaries and identification of Government and Private Plots.
- e) Before preparation of final cadastral sheet and RoR, a claim and objection/correction notice shall be ensured.
- f) Preparation of Full Cadastral Sheets and part sheets in 1:1000 and 1:2000 scales as per the Departmental guidelines on land surveying.
- g) Preparation of Land Holding Register (RoR) for the aforesaid area.
- h) Preparation of Plot wise land Use/Land Cover Map for the aforesaid areas
- i) Preparation of hard (02nos.) & soft copies and submission of the same to the DC concerned.

/198809/2024 Cadastral survey/resurvey and creation of records of right to newly created Permanent District Headquarter at Raga, Kamle District.

Sl. No.	Description of Work	Unit	Qty.	Amount
1	<p>Rectification and study area extraction using IKONOS/CARTOSAT Multi-spectral & CARTOSAT 2b having spatial resolution of 2.5 mtrs.</p> <p>High resolution satellite data are to be procured in digital media CD-ROM. The data is to be imported in Digital Image Processing System and is to be rectified and geo-coded. Resolution Merging of the data is to be performed and the resolution merged image is to be used to extract the study from the total scene. A copy of the map showing the extent of the study area is to be supplied to the Directorate of Land Management, Itanagar, Govt. of Arunachal Pradesh.</p>	Sq.Km	5 sq.km	2,50,000/-
2	<p>Ground control survey and densification of ground control network through high resolution differential GPS and ETS and preparation of Map showing location and Ground Control Point on 1:25000 scale.</p> <p>-The Township map in 1:25,000 scales are to be prepared based on the boundary framework shown in the location map based on ground control work in the study area.</p> <p>-Ground Control Survey is to be done using Differential Global Positioning System and Ground Control Points are to be densified with the Map on the Total Station</p>	Sq.Km	5 sq.km	5,00,000/-
3	<p>Preparation of the Townships and adjoining Village Maps in standard formats in 1:1000 scale and 1:2000 scale showing land holding boundaries and natural topographical features</p> <p>-Survey of the land holdings is to be done using Electronic Total Station. The boundaries of the Government and Private properties are to be demarcated and prepared.</p> <p>-The township and village maps are to be prepared in 1:2000 scales in their standard formats showing individual land holding boundaries and survey numbers, as well as the important topographical features in the area.</p>	Sq.Km	5 sq.km	2,50,000/-
4	<p>Permanent monumentation and planting of concrete pillars of size 12-inch x 12-inch x 24 inch.</p> <p>-The pillars will be aided to demarcate the</p>		25 Nos.	37,500/-

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	the other as well as to demarcate the boundaries of Government and Private plots.			
5	Topographical Survey and Contour Mapping in 1:2000 scale		5	3,50,000/-
6	Preparation of the land use/ land cover maps in 1:2000 scales is to prepare and depict the present land use and to demarcate the association of Government plots.		5	3,50,000/-
7	Digitization of Revenue township and village maps in 1:1000 scales and 1:2000 scales. The data are to be generated and provided in digital environment.		3 Hard Copies & 2 soft copies	1,00,000/-
8	Generation of final maps (03 hard copies and 02 soft copies.) All the generated draft maps are to be submitted for 10% quality checking by the Department of Land Management, and after the checking is over the final maps in numbers as has been specified are to be submitted.		3 Hard Copies and 2 soft copies	1,00,000/-
9	Preparation of land holding register for each settlement is to be prepared - The land holding register/chittah is to be prepared for each revenue towns and village. It should contain the particulars of the land holding, survey numbers, ownership, area, dimensions, present land use, remarks, etc. The land holding registers format may be submitted to the local administration/ Land Management collected from the Department.		5	3,50,000/-
10	Demonstration and on site/offsite training to L.M. officials. The executing agency should have all infrastructure to train the staffs in the domain of plane-table, prismatic compass, Electronics Total Station, GPS & DGPS surveying instruments including proper classroom, well experienced survey faculty members, GIS Expert etc.		3 days	1,50,000/-
11	Indicate item wise cost for IKONOS data at 3.8 mtrs spatial resolution @ 2639.76/scene INR/sq.km excluding 25% accidental costs by NRSC, GoI. CartoSAT 2B scene @45755.85 sq.kms (Spatial resolution 2.5 mtrs)		5	1,00,000/-
12	GST:			

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 3. Cadastral survey/resurvey and creation of records of Circle Headquarter at Rego Perging, CO (Hq) under Siang District.

Sl. No.	Description of Work	Unit	Qty.	Amount
1	<p>Rectification and study area extraction using Triple Sat spatial resolution 0.8m panchromatic and 3.2m multispectral & Carto SAT 2b having spatial resolution of 2.5 mtrs. High resolution satellite data are to be procured in digital media CD-ROM. The data is to be imported in Digital Image Processing System and is to be rectified and geo-coded. Resolution Merging of the data is to be performed and the resolution merged image is to be used to extract the study from the total scene. A copy of the map showing the extent of the study area is to be supplied to the Directorate of Land Management, Itanagar, Govt. of Arunachal Pradesh.</p>	Sq. Km	10 sq.km	2,50,000/-
2	<p>Ground control survey and Densification of ground control network through high resolution differential GPS and Total Stations and preparation of Map showing location and Ground Control Points in 1:25,000 scale.</p> <p>-The Township map in 1:25,000 scale is to be prepared based on the boundary framework shown in the location map based on ground control work in the study area.</p> <p>-Ground Control Survey is to be done using Differential Global Positioning System and Ground Control Points are to be densified with the Map on the Total Station</p>		10 sq.km	5,00,000/-
3	<p>Preparation of the Townships and Adjoining Village Maps in standard formats in 1:2000 scale and 1:1000 scale showing land holding boundaries and natural topographical features</p> <p>-Survey of the land holdings is to be done using Electronic Total Station. The boundaries of the Government and Private properties are to be demarcated and prepared.</p> <p>-The township and village maps are to be prepared in 1:2000 scale in their standard formats showing individual land holding boundaries and survey numbers, as well as the important topographical features in the area.</p>		10 sq.km	5,00,000/-
4	<p>Permanent monumentation and planting of concrete pillars of size 12-inch x 12-inch x 24 inch.</p> <p>-The pillars will be aided to demarcate the settlement boundaries of one settlement from</p>		20 Nos.	30,000/-

/198809/2024	boundaries of Government and Private plots.			
5	Topographical Survey and Contour Mapping in 1:2000 scales.		10	5,00,000/-
6	Preparation of the land use/ land cover maps in 1:2000 scales is to prepare and depict the present land use and to demarcate the association of Government plots.		10	5,00,000/-
7	Digitization of Revenue township and village maps in 1:2000 scales and 1:4000 scales. The data are to be generated and provided in digital environment.		3 Hard Copies & 2 soft copies	1,00,000/-
8	Generation of final maps (03 hard copies and 02 soft copies.) All the generated draft maps are to be submitted for 10% quality checking by the Department of Land Management, and after the checking is over the final maps in numbers as has been specified are to be submitted.		3 Hard Copies and 2 soft copies	1,00,000/-
9	Preparation of land holding register for each settlement is to be prepared - The land holding register/chittah is to be prepared for each revenue towns and village. It should contain the particulars of the land holding, survey numbers, ownership, area, dimensions, present land use, remarks, etc. The land holding registers format may be submitted to the local administration/ Land Management collected from the Department.		10	5,00,000/-
10	Demonstration and on site/offsite training to L.M. officials. The executing agency should have all infrastructure to train the staffs in the domain of plane-table, prismatic compass, Electronics Total Station, GPS & DGPS surveying instruments including proper classroom, well experienced survey faculty members, GIS Experts etc.		3 days	30,000/-
11	Indicate item wise cost for Triple Sat data at 3.2 mtrs spatial resolution @ 2639.76/scene INR/sq.km excluding 25% accidental costs by NRSC, GoI. CartoSAT 1A scene @45755.85 sq.kms (Spatial resolution 2.5 mtrs)		10	1,00,000/-
12	GST:			

4. Terms and Conditions:

- a) The “consultant/agency” should be empaneled with DILRMP or reputed, credible Remote Sensing & GIS based company (should be empaneled Vendor of State Remote Sensing Organizations or NRSC or other State Government Departments etc.) with outstanding satisfactory and proven experience in large scale mapping,

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mapping etc. using the GIS and RS technology.

- b) They should preferably also have experience in high resolution satellite data using digital image processing techniques.
- c) The “Consultant/agency” should be empaneled with DILRMP or have a full-fledged and highly specialized human resource team with a high degree of technical expertise of at least 10 GIS Engineers, 15 Surveyors on pay roll basis including its own well established Remote Sensing & GIS setup, requisite remote sensing & GIS hardware, field equipment (at least 2 DGPS and 5 Electronic Total Station) etc. necessary documentary evidence in support of possessing these instruments by the “consultant/agency” shall be submitted along with the technical bid. The technical team from Directorate of Land Management may inspect the facilities of the consultant/agency to ascertain, if required.
- d) The “consultancy/Agency” should be empaneled with DILRMP or have completed project of value not less than Rs.100.00 Lakhs in the last financial year or should be executing projects of value not less than Rs.100.00 Lakhs in the current financial year involving the said technologies.
- e) The “consultant/agency” shall furnish solvency certificate to the tune of Rs.100 Lakhs (Rupees One Hundred) Lakhs from any bank in support of its sound financial standing.
- f) The consultant/agency should be an ISO 9001:2015 and 27001:2013 certified firm or authorized business partner of an ISO certified firm for providing consultancy technical service in RS, GIS, GPS surveys and mapping. The organization should bear BSICS accreditation.
- g) The consultancy/agency should have executed similar GIS & Remote Sensing mapping projects in India preferably North Eastern Hilly regions for of at least 200 sq. Km and have created detailed plot wise mapping at least in five towns in North East India and its adjoining villages.
- h) Preference will be given to the consultant/agency empaneled with the DILRMP or those having carried out Remote Sensing/GIS based studies in the state of Arunachal Pradesh.
- i) The “Consultant/Agency” shall deposit Rs.1,20,000/- (Rupees One Lakh Twenty Thousand Rupees) only as Earnest Money Deposit. For this purpose, an account payee Demand Draft/Bank guarantee for the said amount drawn at any Nationalized Bank, in favor of Director of Land Management, Govt. of Arunachal Pradesh, Itanagar, payable at Itanagar shall be enclosed with the technical bid. The quotation without earnest money deposit shall be summarily rejected.
- j) The Technical bid and financial bid shall be submitted separately by each firm and each envelope cover shall indicate the contents of the Bid Documents (Technical/Financial) and the name of the Firm.

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- k) The department shall not be responsible for postal or delay in receiving the tender documents and no extension of time shall be entertained on such account. The quotation documents received after due date of opening will be returned through post unopened.
- l) The department reserves the right to reject any or all the quotations without assigning any reason thereof.
- m) For any other information/ Clarification, please contact the Director, Department of Land Management, Government of Arunachal Pradesh, Itanagar.

Signed by

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Date: 02-02-2024 13:16:10

Secretary(Land Management),
Government of Arunachal Pradesh,
Itanagar