



SURVEY OF PAKISTAN  
MURREE ROAD RAWALPINDI

**TENDER NOTICE**

Survey of Pakistan invites sealed bids from reputed firms / supplier / authorized dealers registered with Sale Tax Department and having NIT No. for following items through “Competitive Bidding” process on terms and conditions mentioned in bidding document under the project titled “**Cadestral Mapping**”.

Sl#	Detail of Item	Bidding Method	Bidding Date
1	Aerial Photography of 8-10 cm GSD using UAV / Drone	Single Stage-Two envelop bidding procedure as defined under PPRA rule 2004	<b>15-04-2021</b>

- a. The tender documents containing specifications and detailed requirement can be downloaded from the PPRA Website ([www.ppra.org.pk](http://www.ppra.org.pk)) and **Survey of Pakistan website (www.sop.gov.pk)**.
- b. The complete proposal **must be** submitted to the Chairman Purchase Committee Survey of Pakistan, Faizabad Rawalpindi on or before 15-04-2021 at 1100 a.m.
- c. The tender will be opened on the same day at 1130 hrs in the presence of bidders or their authorized representatives.
- d. For the clarification, please contact the Chairman Purchase Committee from 0900 to 1500 hrs on working days from Monday to Friday.

Muhammad Tanvir  
Director/Chairman Purchase Committee  
Survey of Pakistan, Rawalpindi  
Tel# 051-9290217

# Technical Specifications for Procurement of Aerial Photography

## By Survey of Pakistan

### 1. Purpose and Scope of the Document

The document is part of tender Notice for procurement of Aerial Photography through competitive bidding procedure. The purpose of this document is to provide bidders with detailed information on subject of procurement, requirement and specifications.

### 2. Technical Evaluation Criteria

The document enlists all requirement in left column and the bidder is required to enlist his response / consent in the right column. The response should be explicitly well defined and mentioned against each row. The ambiguous and implicit words or quotes such as (yes, ok, offered, available or offered etc.) shall be treated as “non-responsive”. The aerial photography is required for extracting vector data at parcel level etc.

### 3. Technical Specifications

Sl#	Specifications		Bidder Response
	Component	Specifications	
1	Processing Level	True ortho	
2	Spatial Resolution (GSD)	8-10 cm or better	
3	Mission Planning and Ground Control	Mission planning and ground control software	
4	Communication Options	communication links between ground control station and UAV and cellular un limited within Network	
5	Accuracy	Direct Geo-Positioning and centimeter-level accuracy for precision mapping with PPK option	
6	Projection, Datum	UTM, WGS-84	
7	GNSS Technology	Supports satellite navigation systems	

		including GPS, GLONASS etc.	
8	Overlap	Minimum 60 % Side & 80 % Forward	
10	Camera Trigger	GPS integrated	
11	Shutter speed	1/2 or 1/3 second	
12	Exposure Adjustment	Ability to make in-flight adjustments to camera exposure settings	
13	Processing Software	True Orthomosaic Generation and 3D Model Generation	
14	File Format	Geo tiff	
15	Total Coverage	Karachi (2550 Sq km) Lahore (900 Sq km)	

#### 4. Validity of the Proposal/Bid

**The Proposal shall be valid up to 90 days as per PPRA Rule**

5. The firm will provide cost of aerial photography per Sq Km. The firm will have to provide the cost of Aerial Photography (per Sq Km) for Karachi and Lahore separately. The unit cost (per Sq. Km) includes all taxes. If it is not clearly mentioned it will be assured that the cost includes taxes.
6. Procuring agency may reject any or all bids subject to relevant provisions of PPRA rules.
7. The Bidders will send their Proposals in two sealed envelopes. Single Stage- Two Envelop Procedure as per PPRA Rule 41 (3) will be adopted. The selection process in evaluating the Proposals comprising of Technical and Financial Bids will be that technical evaluation will be carried out in the first phase. Technically qualified bids will be selected for financial evaluation in the second phase. Financial proposals in sealed envelopes for Karachi & Lahore should be submitted separately.
8. **Bid Security:** All bidders are required to submit Rs.2% earnest money in financial proposal envelop in the form of a bank guarantee or Bank draft/pay order. The Earnest Money should be furnished by a reputable bank in favor of Project Director, Survey of Pakistan Rawalpindi and shall be valid for a period of three (3)

months. A certificate for attachment of same must be indicated in technical bid. The bank guarantee / pay order for earnest money will be returned to the responsive bidders on signing of the contract with the successful bidder and the earnest money of technically non-responsive bidder will be returned within 30 days. Bidders submitting a proposal without acceptable earnest money would be immediately disqualified.

9. The Proposals must reach on following address/addresses at 11:00 am on due date and will be opened on same date at 11:30 am. Any proposal received by the Client after the deadline for submission shall be returned unopened.

Muhammad Tanvir  
Director/Chairman Purchase Committee  
Survey of Pakistan, Rawalpindi  
Tel# 051-9290217

10. The technical evaluation committee shall evaluate the Technical Proposals on the basis of bidder response to the specifications of Aerial Photography. A Proposal shall be rejected at this stage if it does not fulfill the specification of Aerial Photography.
11. According to PPRA rule, "the procuring agencies may seek un-conditional discount by incorporating the same in bid solicitation documents. The bidder may offer un-conditional discount, in percentage of their quoted price or bids, before opening of the financial proposal. The discount bid price shall be considered as original bid for evaluation being an integral part of the bid. No offer of discount shall be considered after the bids are opened." The bidder will offer discount in term of percentage of financial bid in writing on Firm letterhead. The bidder may not forget to bring Firm letterhead on the day and time of opening of Financial Bid.
12. **Financial Criteria:** The financial proposal of the technically qualified firms will be opened publicly in the presence of the qualified bidders or their representatives who choose to attend. The financial bid having the lowest financial proposal (cost/sq km) will be considered the most advantageous.
13. The successful bidder will be required to execute an agreement governing the term and conditions of the contract.

14. Delivery of aerial photography will be made within 15 days of order for any AOI.
15. Liquidation Damages: The firm will have to pay liquidation damages for the period of delays in supply of photography at the rate of 2% of the contract price per month or part of a month exceeding the original delivery period subject to the provision that total liquidation damages thus levied will not exceed 10% of the total contract price.
16. **Confidentiality:** The firm shall not, during the process of execution or after expiration of this contract, disclose any proprietary or data without the prior written consent of SoP.
17. **Force Majeure:** Both the parties shall not be held responsible for any delay occurring in the Project due to event of Force Majeure such as acts of God, War, Civil commotion, Strike, Lockouts, Act of Foreign Govt and its agencies and disturbance directly affecting the parties over the events or circumstances where both the parties have no control. In such an event both parties will inform each other within 15 days of the happening and within the same timeframe about the discontinuation of such circumstances / happening in writing.
18. **Arbitration:** Matter will be referred to Grievances Committee of Client to hear the grievances of Parties. Any Party not satisfied with the decision of the grievances committee may lodge an appeal in the relevant court of jurisdiction and only court of law at Rawalpindi / Islamabad shall decide the matter.

**CONTRACT AGREEMENT**  
**GOVERNMENT OF PAKSITAN**  
**SURVEY OF PAKISTAN**  
**Cadestral Mapping Project**  
RAWALPINDI

**Contract No.        /        , **dated:**        -        -2021**  
 Ref: Technical & Financial Proposal No. .... dated.....

An agreement made the \_\_\_\_\_ day of ----- Two Thousand Twenty One between **President of Pakistan** through Survey of Pakistan hereinafter called "Client" on the one part and ....., hereinafter called "Contractor" on the other part. Client and Contractor may be collectively referred to herein as the "Parties". For and in consideration of the following terms, conditions, covenants, and agreements set forth herein, the Parties hereto agree as per following.

Whereby it is agreed that the Client shall obtain the services of Contractor for **Provision of 8-10 cm ortho-rectified aerial photography** at the rate/price mentioned therein already transmitted through letter of intent subject to the special conditions as follow:

**DELIVERABLES:**

Aerial Photography with following specification.

SI#	Specifications		Bidder Response
	Component	Specifications	
1	Processing Level	True ortho	
2	Spatial Resolution (GSD)	8-10 cm or better	
3	Mission Planning and Ground Control	Mission planning and ground control software	
4	Communication Options	communication links between ground control station and UAV and cellular un limited within Network	
5	Accuracy	Direct Geo-Positioning and centimeter-level accuracy for precision mapping with PPK option	
6	Projection, Datum	UTM, WGS-84	
7	GNSS Technology	Supports satellite navigation systems including GPS, GLONASS etc.	
8	Overlap	Minimum 60 % Side & 80 % Forward	
10	Camera Trigger	GPS integrated	
11	Shutter speed	1/2 or 1/3 second	
12	Exposure Adjustment	Ability to make in-flight adjustments to camera exposure settings	

13	Processing Software	True Orthomosaic Generation and 3D Model Generation	
14	File Format	Geo tiff	
15	Total Coverage	Karachi (2550 Sq km) Lahore (900 Sq km)	

### **SUPPLY SCHEDULE FOR DELIVERABLES**

SI No.	Area (Sq Km)	Cost including tax (Rs.)	Billing address	Delivery Date
			Project Director, Survey of Pakistan Rawalpindi	

### **CONTRACT CONDITIONS/CLAUSES:**

1.	Name of consignee:	Project Director, Cadastral Mapping Project, Survey of Pakistan Rawalpindi.
2.	Firm's Name & Address:	M/s.
3.	Firm's NTN No.	
4.	Firm's Sales Tax Reg. No:	
5.	Date of Delivery:	
6.	Aerial photography data submission Instructions:	The data will be submitted to the consignee under the own arrangements of Contractor. Contractor will ensure safe arrival of data in the office of Project Director Survey of Pakistan Rawalpindi without any loss or damaging.
7.	<b>Inspection of data:</b>	
	a) Inspection Authority:	SoP Quality Control Team
	b) Place of Inspection:	Consignee's Premises
8.	<b>Checking of Aerial photography at Consignee's End:</b> All Aerial photography will be checked at consignee's premises. In case of any discrepancy, Contractor will be obliged to replace Aerial photography.	
9.	<b>Terms of Payment:</b> The payment will be made after complete delivery of Aerial photography and replacements if required.	

10.	<b>Taxes &amp; Duties:</b>
a)	<b>Duties &amp; Taxes Applicable:</b> The cost quoted are inclusive of all kinds of duties and taxes. The Client shall not be liable for reimbursement of duties and taxes other than those given in the quoted rates. In case fresh taxes and duties are levied by the government after opening of the tender and during the currency of the contract i.e. within the original delivery period or if the existing rates of taxes are increased after opening of the tender and during the currency of the contract, liability shall be on Client. In case of any subsequent decrease in existing or future duty or taxes by the Govt. after opening of tender and during the currency of the contract, the liability shall be on the Contractor. All such taxes and duties, which are included in quoted rates, will be deducted from the Contractor's bill. After completion of contracted job, Client shall issue a certificate regarding deducted duties and taxes to the Contractor.
b)	For release of payment, the Contractor would be required to furnish the following documents to <b>Project Director</b> .
	<ul style="list-style-type: none"> <li>i. Bill</li> <li>ii. Proof of registration with Sales Tax Department (Copy of Registration Certificate).</li> <li>iii. Sales Tax Invoice in original showing description/quantity and current amount of Sales Tax leviable thereon.</li> </ul>
11.	<b>Failure and Termination:</b> Should the Contractor fail to deliver the Aerial photography data within stipulated period of supply, on the expiry; the Client shall be entitled at his option to take either of the following actions: <ul style="list-style-type: none"> <li>a) To cancel the contract, at risk and expense of the Contractor. The Contractor shall also be liable to bear any loss which Client sustains on this account.</li> <li>b) The firm has to pay liquidation damages for the period of delays in supply of Aerial photography data upto rate of 2% of the contract price per month or part of a month exceeding the original delivery period subject to the provision that total liquidation damages thus levied will not exceed 10% of the total contract price.</li> </ul>
12.	<b>Force Majeure:</b> Both the parties shall not be held responsible for any delay occurring in the Project due to event of Force Majeure such as acts of God, War, Civil commotion, Strike, Lockouts, Act of Foreign Govt and its agencies and disturbance directly affecting the parties over the events or circumstances where both the parties have no control. In such an event both parties will inform each other within 15 days of the happening and within the same



	timeframe about the discontinuation of such circumstances / happening in writing.
13.	<b>Arbitration:</b> a) Matter will be referred to Grievances Committee of the Client to hear the grievances of the Parties. b) <i>Any Party not satisfied with the decision of the grievances committee may lodge an appeal in the relevant court of jurisdiction and only court of law at Rawalpindi / Islamabad shall decide the matter.</i>
14.	<b>Confidentiality:</b> The firm shall not disclose this contact with any other organization/party/person.
15.	Delivery of images will be made within 15 days of order for any AOI

## SIGNATURES

### CLIENT

Designation	Project Director
Name	
Signature	
For and on behalf of the President of Islamic Republic of Pakistan.	

### CONTRACTOR

Name	
Designation	
Signature	