GOVERNMENT OF PAKISTAN MINISTRY OF ENERGY (PETROLEUM DIVISION) GEOLOGICAL SURVEY OF PAKISTAN LAHORE



Tender Documents

(Single Stage Two Envelope procedure) For

PURCHASE OF ANALYTICAL AND SURVEYING EQUIPMENT

(FY 2024-25)

Director Procurement (AGM) Geological Survey of Pakistan Trade Center near Expo Center, Johar Town, Lahore. Ph. 042-99232933-4, Fax. 042-99232940

<u>Contents</u>

Tender Notice
Tender Submission
General Guidelines5
Technical Proposal5
Financial Proposal5
LOT- 1
List of Mandatory Documents for Eligibility7
Technical Evaluation, Procedure and Criteria8
Technical Scoring Criteria for Bidders9
Bank Account Details9
Technical Specifications for Handheld XRF10
Prices11
Timeline for Delivery of Goods:12
Terms & conditions: - (On official letter had of the bidder)13
LOT- 2
List of Mandatory Documents for Eligibility16
Technical Evaluation, Procedure and Criteria17
Technical Scoring Criteria for Bidders18
Bank Account Details
Technical Specifications for FTIR Instrument19
Prices
Timeline for Delivery of Goods:
Terms & conditions: - (On Stamp Paper signed and stamp by the bidder)
LOT- 3
List of Mandatory Documents for Eligibility25
Technical Evaluation, Procedure and Criteria26
Bank Account Details
Technical Specifications for Reconnaissance Drones27
Prices
Timeline for Delivery of Goods:
Terms & conditions: - (On Stamp Paper signed and stamp by the bidder)
LOT- 4
List of Mandatory Documents for Eligibility40

Technical Evaluation, Procedure and Criteria	41
Bank Account Details	41
Technical Specifications for Hyperspectral Imaging System	42
Prices	46
Timeline for Delivery of Goods:	47
Terms & conditions: - (On Stamp Paper signed and stamp by the bidder)	48
Tender Submission	50
Bid Security (Pay Order/CDR)	51
INTEGRITY PACT	52
FAIR PRICE CERTIFICATE	53
INTEGRITY AND ETHICS UNDERTAKING	54
AFFIDAVIT	55

<u>Tender Notice</u> INVITATION TO BID

Government of Pakistan Geological Survey of Pakistan, Lahore

Bids are invited on **FOR Basis** from the GST, Income Tax registered firms/suppliers/ who are on the active taxpayer list of the Federal Board of Revenue for the supply of **Machinery & Equipment** as per specifications provided in the Tender Documents.

LOT	Details	Bid Security
LOT-1	Handheld XRF	Rs. 400,000/-
LOT-2	Benchtop FTIR	Rs. 200,000/-
LOT-3	Drones for Surveying	Rs. 50,000/-
LOT-4	Hyperspectral Imaging System	Rs. 500,000/-

Conditions & Regulations:

- a) The last date of submission of bids at PPRA E-PADS (<u>www.eprocure.gov.pk</u>) is **27-03-2025**, **till 1200** hours. Bids must accompany bid Security as mentioned above in the shape of a pay order/CDR in favor of Director General, Geological Survey of Pakistan.
- b) The complete tender documents are available at https://eprocure.gov.pk/#/auth.
- c) This tender notice is also available on <u>www.gsp.gov.pk</u>, PPRA website <u>www.ppra.org.pk</u>.
- d) The tender will be processed through PPRA E-PADS (<u>https://eprocure.gov.pk/#/auth)</u>.
- e) The time for electronic bid submission is until **27-03-2025**, till **1200 Hrs**. Bidders are advised to upload the copy of the pay order/CDR electronically and must submit in-Original along with the sealed hard copies of the bids at the address provided below before the closing of bid submission time.
- f) Technical Bids/proposals will be opened on the **same date at 1230 Hrs** in the presence of bidders or their authorized representatives if they opt to attend.

SAJJAD KARAMAT WAHLA

Director Procurement (AGM) Geological Survey of Pakistan Trade Centre near Expo Centre, Lahore.

Phone. +92-42-99232933-4, Fax. 042-99232940

Tender Submission

General Guidelines

- a) The bids will be submitted and processed via E-PADS.
- b) Single stage Two envelopes, procedure would be adopted for opening of bids.
- c) The mandatory documents and Technical Evaluation Criteria for each LOT are provided in the relevant LOT.
- d) Bidding company/firm may participate in whole tender items or any number of items. The bidder who may choose to participate in more than one LOT of this tender must conform to the relevant mandatory and technical requirements.
- e) The hard copy of the bid shall comprise a single package containing two separate envelopes. Each envelope shall contain separately the Financial Proposal and the Technical Proposal. The bidders who wish to participate in more than one lot are advised to submit a separate financial bid envelope for each lot.
- f) The envelopes shall be marked as "FINANCIAL PROPOSAL" and "TECHNICAL PROPOSAL" in bold and legible letters to avoid confusion.
- g) The original Pay order/CDR of bid security must be placed in the envelope marked as "TECHNICAL PROPOSAL".

Technical Proposal

- a) The technical proposal must include all mandatory documents and documents required for technical evaluation (where applicable).
- b) The technical proposal must include detailed specifications against the requirements outlined in the tender including manufacturer/brand name, model.

Financial Proposal

- a) The Prices quoted in PKR must be inclusive of all duties/taxes, approval fee (where applicable), packing, and delivery charges. However, if GST is applicable, the same should be shown separately.
- b) The Prices mentioned in the tender will be treated as firm till the completion of Purchase Order.
- c) The Prices must be stated for each item separately.
- d) Offers must be valid for **120 days.**

<u>LOT- 1</u>

Purchase of Handheld XRF

Sr.	Documents.	Remarks
1	Certificate of Company/Firm Registration under the laws of Pakistan with minimum 03 years of Relevant Experience	• Valid certificates/e-certification from
2	Registration of NTN with Federal Board of Revenue (FBR) and having Active Taxpayer status.	 concerned regulator/ authority is required. PO/ Completion Certificates for supply
3	Registration of General Sales Tax (GST) with Federal Board of Revenue (FBR) and having Active Taxpayer status.	of similar equipment supplied
4	Training at Original Equipment Manufacturing (OEM) Facility.	The company will provide assurance on stamp paper regarding OEM facility training of Two (2) officers for Handheld XRF with no burden on Govt. of Pakistan.
5	Manufacturer/Dealer Authorization Letter/certificate (MAL) is mandatory.	Valid Authorization Certificate
6	The bidder should have a fully operational office/ Head office in any major city of Pakistan.	Proof of Office setup and address
7	Affidavit that the firm is neither blacklisted nor involved in any active litigation in Pakistan.	Annexure-6
8	Pay Order/Call Deposit Receipt/ Bank Draft for Bid Security of Rs. 400,000/	Original is required.
9	At least 50 million cumulative turnover for the last three (3) years	Bank statement for last three (03) years
10	Service contract for 1 year at no additional cost after expiry of warranty period	Affidavit on stamp paper

List of Mandatory Documents for Eligibility

Technical Evaluation, Procedure and Criteria

- a) Initially, only the "TECHNICAL PROPOSAL" shall be opened.
- b) The technical proposals shall be evaluated for compliance with mandatory documents for eligibility and technical specifications of items being procured through this tender, without reference to the price. The technical proposal which does not conform to these requirements will be rejected.
- c) Compliance with all mandatory and technical requirements is a prerequisite for eligibility to participate in the Financial Bid opening.
- d) The bidder must score 65% marks in Technical Scoring Criteria for Bidders.
- e) The Financial Proposal of bids found technically non-responsive or unqualified shall be returned un-opened to the respective bidders.
- f) The "FINANCIAL PROPOSAL" shall be opened in the presence of Procurement Committee members and the representatives of the technically qualified bidders who may choose to attend.
- g) The opened financial proposals will be thoroughly evaluated, and total amounts will be verified for accuracy. The contract will be awarded to the lowest-priced bid that is fully compliant with all requirements.
- h) The bidders will provide a performance guarantee equivalent to **5%** of the bid value at the time of signing of the contract agreement.
- i) The Purchase Order will be issued after signing of the contract agreement.
- j) The place of delivery of equipment will be the DIVISIONAL OFFICE, GEOLOGICAL SURVEY OF PAKISTAN, JOHAR TOWN, LAHORE.

Technical Scoring Criteria for Bidders

Parameter	Description	Marks	Marks Obtained
Past Performance and Experience	 Proven Experience in Delivering Similar Equipment Number of similar projects completed (10 Marks for each Project completed, Maximum 50 Marks) 	50 Marks	
(Total marks 60)	 Client Feedback/Completion Certificate Testimonials and performance reviews from previous clients (2.5 Marks for each, Maximum 10 Marks) 	10 Marks	
After-Sales	 Warranty and Service Agreements Availability of service and maintenance contracts of similar nature (2.5 mark for each service contract) 	(10 Marks Maximum)	
Support and Service (Total marks 40)	Availability of Local Technical Support		
	 Number of technical staff available for support and operations: 02 Mark/ staff members 	(10 Marks Maximum)	
	 Engineers trained by the manufacturer on relevant equipment: 10 Marks/ engineer 	(20 Marks Maximum)	

	Bank Account Details
i	Title of Bank Account:
	Bank Account No.
	Name of Bank and
	address

Technical Specifications for Handheld XRF

Nam	e of Firm				
Com	plete Address				
Vend	ler No.				
Telej	phone & Fax N		Vational Tax Number (NTN)	Sales Tax Registration No.	
Sr#	Items	Quantity	Minimum Spe	cifications Required	Specification Being
5111	Itellis	Quantity	Winning Spe	emeanons Required	Offered
			X-Ray Tube	Material: W or Ag or Rh or Au	
				: min 4 W; min 45kV	
			Detector: SDI	D with solid detector shutter	
			Analytical Ra eral analysis	nge : $Mg - U$ with library for min-	
			Camera: Integ	grated	
			GSP : Built in GPS		
			Connectivity: Bluetooth, USB, Wifi, able to con-		
			nect to compu	nect to computers for data transfer	
			Storage: Capability to store 5000 estimations with additional external storage support		
			Display: Touc		
			Power: Batter	Power : Battery operated with hot swipe feature	
1	Handheld XRF	2	High: Between	1 -20 to 0°c 1 40 to 60°c	
			with internation	andheld XRF analyzer must comply onal regulatory and safety stand- ay include but not limited to CE,	
				EC, US FDA and Canada RED	
			Accessories: T carrying case, data sheets, Sa	Two spare batteries, Shock proof Minimum 2 Check samples with afety lanyard, 220V AC Adapter, and dock for batteries, Standard Li-	
			U U	nerals from Mg-U	
			Warranty and warranty of Ha well as librario	Id Service Agreement : 1 Year ardware and installed Software as es. In addition, One Year service nce will be provided by the bidder.	

Prices

Item No.	Description	Quantity	Unit Rate (Rs)	GST on Unit price	Unit Rate (Rs) with GST	Total Amount (Rs)
1.						
			Total (to	be carri	ied to Summary of Bi	d Price)

Timeline for Delivery of Goods:

Successful bidder will deliver the goods according to guidelines provided below:

LOT 1: - 60 Days after the issuance of purchase order.

Terms & conditions: - (On official letter head of the bidder)

Sealed bids (as per prescribed bid forms) addressed to the Director Procurement (AGM), Geological Survey of Pakistan, Lahore will be received till **27-03-2025**, **12:00** hours and will be opened at **12:30** hours on same date in the presence of all bidders or their authorized representative who may choose to attend.

- 1. The warranty period of Handheld XRF Instrument will be 1 year and successful bidder will provide one year after sales service after completion of warranty period at no additional cost. The warranty period starts after the successful issuance of the inspection report of the delivered items.
- 2. Bids should accompany a pay order as bid security for an amount equal to Rs. 400,000/of the bid price in the name of the Director General, Geological Survey of Pakistan. Failure to furnish the same shall lead to disqualification of the bid.
- 3. The bidder will provide a Performance Guarantee for an amount equal to 5% of the total price of the contract at the time of signing the contract agreement and performance guarantee will remain valid till the expiry date of warranty.
- 4. Income tax/GST (if admissible) will be charged as per prevailing laws of the Government of Pakistan by bidders.
- 5. Bids should be free from cutting/overwriting. The bid amount should be written both in figure as well as in words which must be clear and legible. Failure to do so shall lead to disqualification from the bid.
- 6. Bids have a minimum validity period of 120 days from the last date for submission of the Tender.
- 7. The quoted rates once offered by the bidder will not be changed during the contract and Dollar to Pak rupee rate fluctuation will not affect the BID price.
- 8. The successful bidders shall be required to supply items within **Sixty (60) days** from the date of issuance of supply order.
- 9. The Competent Authority/Procurement Committee reserves the right to accept or reject any or all bids after assigning proper reasons before submission and after opening of bids.
- 10. The Bidders are required to quote their full Name, Contact number, Address and National Identity Card number.
- 11. At the time of supply, below par specification goods will result in cancellation of bid.
- 12. The purchase committee may decrease or increase the number of items if required.
- 13. Conditional/Incomplete bids shall not be accepted.
- 14. DELIVERY:

a. The material strictly in accordance with the specification must be delivered through Delivery Challan in triplicate at the place and within the time mentioned in this order by the successful bidder at their own expenses.

- b. Time is of the essence for this order.
- 15. INSPECTION: All items of this order will be subject to acceptance/rejection by the Inspection Committee/3rd Party Inspector (if required). Rejected material shall be

removed/replaced by the Supplier within 07 days from the date of receipt of the letter/fax/electronic communication, issued by the procurement committee.

- 16. If the supplier fails to materialize the delivery, the Procuring agency reserves the right to cancel Purchase order and to forfeit the performance guarantee after intimating the supplier for such cancellation/forfeiture after deadline for delivery of equipment.
- 17. GOVERNING LAW: This Procurement and any matter relating thereto shall be governed by the prevailing laws of Govt. of Pakistan and PPRA rule 2004.
- 18. WARRANTIES: Supplier/Seller warrants that all goods, material, equipment or services furnished herein above will conform strictly to the Procuring agency's specifications.
- 19. COMPLIANCE WITH LAWS: Supplier/seller agrees to indemnify the Purchase for any loss, damage or cost suffered by the Procuring agency as a consequence of the Supplier/seller's failure, deliberate or otherwise, to comply with any applicable laws, rules, regulations or orders/directives of any public sector entity and/or Government.
- 20. ARBITRATION: Any dispute, difference or question arising out of or in respect of this Purchase Order shall be settled by arbitration in accordance with the Grievances redressal committee.

<u>LOT- 2</u>

Purchase of FTIR Instrument

Sr.	Documents.	Remarks
1	Certificate of Company/Firm Registration under the laws of Pakistan with minimum 03 years of Relevant Experience	• Valid certificates/e-certification from
2	Registration of NTN with Federal Board of Revenue (FBR) and having Active Taxpayer status.	 concerned regulator/ authority is required. PO/ Completion Certificates for supply
3	Registration of General Sales Tax (GST) with Federal Board of Revenue (FBR) and having Active Taxpayer status.	of similar equipment supplied
4	Training at Original Equipment Manufacturing (OEM) Facility.	The company will provide assurance on stamp paper regarding OEM facility training of Two (02) officers with no burden on Govt. of Pakistan.
5	Manufacturer/Dealer Authorization Letter/certificate (MAL) is mandatory.	Valid Authorization Certificate
6	The bidder should have a fully operational office/ Head office in any major city of Pakistan.	Proof of Office setup and address
7	Affidavit that the firm is neither blacklisted nor involved in any active litigation in Pakistan.	Annexure-6
8	Pay Order/Call Deposit Receipt/ Bank Draft for Bid Security of Rs. 200,000/	Original is required.
9	At least 50 million cumulative turnover for the last three (3) years	Bank statement for last three (03) years
10	Service contract for 1 years at no additional cost after expiry of warranty period	Affidavit on stamp paper

List of Mandatory Documents for Eligibility

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- a) Initially, only the "TECHNICAL PROPOSAL" shall be opened.
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- d) The bidder must score 65% marks in Technical Scoring Criteria for Bidders.
- e) The Financial Proposal of bids found technically non-responsive or unqualified shall be returned un-opened to the respective bidders.
- f) The "FINANCIAL PROPOSAL" shall be opened in the presence of Procurement Committee members and the representatives of the technically qualified bidders who may choose to attend.
- g) The opened financial proposals will be thoroughly evaluated, and total amounts will be verified for accuracy. The contract will be awarded to the lowest-priced bid that is fully compliant with all requirements.
- h) The bidders will provide a performance guarantee equivalent to **5%** of the bid value at the time of signing of the contract agreement.
- i) The Purchase Order will be issued after signing of the contract agreement.
- j) The place of delivery of equipment will be the DIVISIONAL OFFICE, GEOLOGICAL SURVEY OF PAKISTAN, JOHAR TOWN, LAHORE.

Technical Scoring Criteria for Bidders

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(Total marks 60)	 Client Feedback/Completion Certificate Testimonials and performance reviews from previous clients (2.5 Marks for each, Maximum 10 Marks) 	10 Marks	
After-Sales	 Warranty and Service Agreements Availability of service and maintenance contracts of similar nature (2.5 mark for each service contract) 	(10 Marks Maximum)	
Support and Service (Total marks 40)	Availability of Local Technical Support		
	 Number of technical staff available for support and operations: 02 Mark/ staff members 	(10 Marks Maximum)	
	 Engineers trained by the manufacturer on relevant equipment: 10 Marks/ engineer 	(20 Marks Maximum)	

	Bank Account Details
i	Title of Bank Account:
	Bank Account No.
	Name of Bank and
	address

Technical Specifications for FTIR Instrument

Nam	e of Firm				
Com	plete Address				
Vend	ler No.				
Telej	phone & Fax No.		nal Tax per (NTN)	Sales Tax Registrat	tion No.
Sr#	Items	Quantity	Spectral Ran 400 cm ⁻¹ (2.1		Specification Being Offered
1	FTIR Instrument	1	Resolution: I to resolve fir Signal-to-No more at 4 cm Detector: DT fate) detector Source: Long SiC) Sampling: Tr cro-sample a Reflection: S polished sam ders. Attenuated T mond/ZnSe a gemstones at Software Fea and polymer cessing tools Connectivity transfer Calibration: sity calibratio Internal vali alogical stud Accessories: and seals (5 st	High resolution of at least 0.2 cm ⁻¹ he mineralogical features. bise Ratio (SNR): 15,000:1 or n ⁻¹ resolution TGS (Deuterated Triglycine Sul- r for general analysis. g-life mid-IR source (ceramic or ransmission: Thin-section and mi- nalysis for geological specimens. Specular and diffuse reflectance for nples, rough surfaces, and pow- Cotal Reflectance (ATR): Dia- ATR crystal for hard materials like nd minerals. atures: Mineral, gemstone spectral libraries. Advanced spectral pro- trices use the spectral pro- trices use the spectral pro- trices use the spectral pro- trices and the spectral pro- spectral pro- spectral pro- net and the spectral pro- spectral pro- spect	

Prices

Item No.	Description	Quantity	Unit Rate (Rs)	GST on Unit price	Unit Rate (Rs) with GST	Total Amount (Rs)
1.						
			Total (to	be carri	ied to Summary of Bi	d Price)

Timeline for Delivery of Goods:

Successful bidder will deliver the goods according to guidelines provided below:

For LOT 2: - 60 Days after the issuance of purchase order.

Terms & conditions: - (On Official Letter Head of the Bidder)

Sealed bids (as per prescribed bid forms) addressed to the Director Procurement (AGM), Geological Survey of Pakistan, Lahore will be received till **27-03-2025**, **12:00** hours and will be opened at **12:30** hours on same date in the presence of all bidders or their authorized representative who may choose to attend.

- 1. The warranty period of FTIR Instrument will be 1 year and successful bidder will provides one year after sales service after completion of warranty period at no additional cost. The warranty period starts after the successful issuance of the inspection report of the delivered items.
- 2. Bids should accompany a pay order as bid security for an amount equal to Rs. 200,000/of the bid price in the name of the Director General, Geological Survey of Pakistan. Failure to furnish the same shall lead to disqualification of the bid.
- 3. The bidder will provide a Performance Guarantee for an amount equal to 5% of the total price of the contract at the time of signing the contract agreement and performance guarantee will remain valid till the expiry date of warranty.
- 4. Income tax/GST (if admissible) will be charged as per prevailing laws of the Government of Pakistan by bidders.
- 5. Bids should be free from cutting/overwriting. The bid amount should be written both in figure as well as in words which must be clear and legible. Failure to do so shall lead to disqualification from the bid.
- 6. Bids have a minimum validity period of 120 days from the last date for submission of the Tender.
- 7. The quoted rates once offered by the bidder will not be changed during the contract and Dollar to Pak rupee rate fluctuation will not affect the BID price.
- 8. The successful bidders shall be required to supply items within **Sixty (60) days** from the date of issuance of supply order.
- 9. The Competent Authority/Procurement Committee reserves the right to accept or reject any or all bids after assigning proper reasons before submission and after opening of bids.
- 10. The Bidders to quote their full Name, Contact number, Address and National Identity Card number.
- 11. At the time of supply, below par specification goods will result in cancellation of bid.
- 12. The purchase committee may decrease or increase the number of items if required.
- 13. Conditional/Incomplete bids shall not be accepted.
- 14. DELIVERY:

a. The material strictly in accordance with the specification must be delivered through Delivery Challan in triplicate at the place and within the time mentioned in this order by the successful bidder at their own expenses.

- b. Time is of the essence for this order.
- 15. INSPECTION: All items of this order will be subject to acceptance/rejection by the Inspection Committee/3rd Party Inspector (if required). Rejected material shall be

removed/replaced by the Supplier within 07 days from the date of receipt of the letter/fax/electronic communication, issued by the procurement committee.

- 16. If the supplier fails to materialize the delivery (material and or services); the Procuring agency reserves the right to cancel Purchase order and to forfeit the performance guarantee after intimating the supplier for such cancellation/forfeiture after deadline for delivery of equipment.
- 17. GOVERNING LAW: This Procurement and any matter relating thereto shall be governed by the prevailing laws of Govt. of Pakistan and PPRA rule 2004.
- 18. WARRANTIES: Supplier/Seller warrants that all goods, material, equipment or services furnished herein above will conform strictly to the Procuring agency's specifications.
- 19. COMPLIANCE WITH LAWS: Supplier/seller agrees to indemnify the Purchase for any loss, damage or cost suffered by the Procuring agency as a consequence of the Supplier/seller's failure, deliberate or otherwise, to comply with any applicable laws, rules, regulations or orders/directives of any public sector entity and/or Government.
- 20. ARBITRATION: Any dispute, difference or question arising out of or in respect of this Purchase Order shall be settled by arbitration in accordance with the Grievances redressal committee.

<u>LOT- 3</u>

Purchase of Reconnaissance Drone

List of Mandatory Documents	s for Eligibility
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Sr.	Documents.	Remarks
1	Certificate of Company/Firm Registration/Corporation under the laws of Pakistan	
2	Registration of NTN with Federal Board of Revenue (FBR) and having Active Taxpayer status.	Valid certificates/e-certification from concerned regulator/ authority is required.
3	Registration of General Sales Tax (GST) with Federal Board of Revenue (FBR) and having Active Taxpayer status.	
4	The bidder should have a fully operational office/ Head office in any major city of Pakistan.	Proof of Office setup and address
5	Affidavit that the firm is neither blacklisted nor involved in any active litigation in Pakistan.	Annexure-6
6	Pay Order/Call Deposit Receipt/ Bank Draft for Bid Security of Rs. 50,000/	Original is required.
7	At least 10 million cumulative turnover for the last three (3) years	Bank statement for last three (03) years
8	At least two relevant Projects or Manufacturer Authorization Letter (MAL)	Proof of relevant document

Technical Evaluation, Procedure and Criteria

- a) Initially, only the "TECHNICAL PROPOSAL" shall be opened.
- b) The technical proposals shall be evaluated for compliance with mandatory documents for eligibility and technical specifications of items being procured through this tender, without reference to the price. The technical proposal which does not conform to these requirements will be rejected.
- c) Compliance with all mandatory and technical requirements is a prerequisite for eligibility to participate in the Financial Bid opening.
- d) The Financial Proposal of bids found technically non-responsive or unqualified shall be returned un-opened to the respective bidders.
- e) The "FINANCIAL PROPOSAL" shall be opened in the presence of Procurement Committee members and the representatives of the technically qualified bidders who may choose to attend.
- f) The opened financial proposals will be thoroughly evaluated, and total amounts will be verified for accuracy. The contract will be awarded to the lowest-priced bid that is fully compliant with all requirements.
- g) The bidders will provide a performance guarantee equivalent to **10%** of the bid value at the time of signing of the contract agreement.
- h) The Purchase Order will be issued after signing of the contract agreement.
- i) The place of delivery of equipment will be the DIVISIONAL OFFICE, GEOLOGICAL SURVEY OF PAKISTAN, JOHAR TOWN, LAHORE.

	Bank Account Details
i	Title of Bank Account:
	Bank Account No.
	Name of Bank and
	address

Technical Specifications for Reconnaissance Drones

Nam	ne of Firm			
Com	nplete Addre	SS		
Ven	der No.			
Tele	phone & Fax	x No.	National Tax Number (NTN)	Sales Tax Registration No.
Sr #	Items	Quantity	Minimum Specifications Required	Specification Being Offered with Make and Model
1	Drone - I	01	UAVWeight: 900-1000 g (with propeller s, without accessories)Max Flight Time: Up to 45 minutes (in windless conditions)Max Hover Time: \geq 38 minutes (in windless condition)Max Flight Distance: \geq 32 kmMax Flight Distance: \geq 32 kmMax Flight Speed (at sea level, no wind): \geq 15 m/sWind Resistance: 10-12 m/sMax Takeoff Altitude: 5000-6000 m above sea levelGNSS: GPS+ Galileo+ BeiDou+ GLONASS (when the RTK module is enabled)Operating Temperature Range: -10° to 40° CCCamera System1. Wide CameraSensor: 4/3 CMOS, Effective pixels: 20 MP Lens: FOV: 84° Format Equivalent: 24 mm Aperture: f/2.8-f/11 Focus: 1 m to ∞ ISO Range: 100-6400Shutter Speed: Electronic Shutter: 8-1/8000 s & Max Image Size: 5280×3956Video Resolution: H.264, 4K:3840×2160@30fps, FHD: 1920×1080@30fps	

Bitrate: 4K: 130 Mbps, FHD: 70 Mbps 2. Tele Camera Sensor: 1/2-inch CMOS, Effective pixels: 12 MP Lens: FOV: 15°, Format Equivalent: 162 mm, Aperture: 74.4, Focus: 3 m to ∞ ISO Range: 100-6400 Shutter Speed: Electronic Shutter: 8-1/8000 s Max Image Size: 4000×3000 Video Resolution: H.264, 4K: 3840×2160@30fps, FHD: 1920×1080@30fps Bitrate: 4K: 130 Mbps, FHD: 70 Mbps Digital Zoom: 8x (56x hybrid zoom) Gimbal Stabilization: 3-axis (tilt, roll, pan) Mechanical Range: Tilt: -135° to 100°, Roll: -45° to 45°, Pan: -27° to 27° Controllable Range: Tilt: -90° to 35° Max Control Speed (tilt): 100% Angular Vibration Range: 10.007° Sensing Type: Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft. Forward: Measurement Range: 0.5-20 m. Detection Range: 0.5-20 m Backward: Measurement Range: 0.5-16 m, Lateral: Measurement Range: 0.5-16 m, Lateral: Measurement Range: 0.3-18 m, Video Transmission Video Transmission		
 Sensor: 1/2-inch CMOS, Effective pixels: 12 MP Lens: FOV: 15°, Format Equivalent: 162 mm, Aperture: f44, Focus: 3 m to ∞ ISO Range: 100-6400 Shutter Speed: Electronic Shutter: 8-1/8000 s Max Image Size: 4000-3000 Video Resolution: H.264, 4K: 3840×2160@30fps, FHD: 1920×1080@30fps Bitrate: 4K: 130 Mbps, FHD: 1920×1080@30fps Bitrate: 4K: 130 Mbps, FHD: 1920×1080@30fps Bitrate: 4K: 130 Mbps, FHD: 1920×1080@30fps Digital Zoom: 8x (56x hybrid zoom) Gimbal Stabilization: 3-axis (dilt, roll, pan) Mechanical Range: Tilt: -10° to 35° Max Control Speed (idl): 100% Angular Vibration Range: ±0.007° Sensing Type: Omnidrectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft. Forward: Measurement Range: 0.5-20 m, Detection Range: 0.5-20 m Backward: Measurement Range: 0.5-25 m, Upward: Measurement Range: 0.5-16 m, Lateral: Measurement Range: 0.2-10 m, Downward: Measurement Range: 0.3-18 m, Video Transmission System: 03 Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz 	Bitrate: 4K: 130 Mbps, FHD: 70 Mbps	
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MP Lens: FOV: 15°, Format Equivalent: 162 mm, Aperture: 174.4, Focus: 3 m to ∞ ISO Range: 100-6400 Shutter Speed: Electronic Shutter: 8-1/8000 s Max Image Size: 4000×3000 Video Resolution: H.264, 4K: 3840×2160@30fps, FHD: 1920×1080@30fps Bitrate: 4K: 130 Mbps, FHD: 70 Mbps Digital Zoom: 8x (56x hybrid zoom) Cimbal Stabilization: 3-axis (tilt, roll, pan) Mechanical Range: Tilt: -00° to 35° Max Control Speed (tilt): 100°/s Angular Vibration Range: ±0.007° Stensing Type: Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft. Forward: Measurement Range: 0.5-20 m, Detection Range: 0.5-20 m, Detectin Ran		
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Video Resolution: H.264, 4K: 3840×2160@30fps, FHD: 1920×1080@30fps Bitrate: 4K: 130 Mbps, FHD: 70 Mbps Digital Zoom: 8x (56x hybrid zoom) Gimbal Stabilization: 3-axis (tilt, roll, pan) Mechanical Range: Tilt: -135° to 100°, Roll: -45° to 45°, Pan: -27° to 27° Controllable Range: Tilt: -90° to 35° Max Control Speed (tilt): 100°/s Angular Vibration Range: ±0.007° Sensing Type: Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft. Forward: Measurement Range: 0.5-16 m, Lateral: Measurement Range: 0.5-25 m, Upward: Measurement Range: 0.2-10 m, Downward: Measurement Range: 0.3-18 m, Video Transmission Video Transmission System: 03 Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz	Shutter Speed: Electronic Shutter: 8-1/8000 s	
3840×2160@30fps, FHD: 1920×1080@30fps Bitrate: 4K: 130 Mbps, FHD: 70 Mbps Digital Zoom: 8x (56x hybrid zoom) Gimbal Stabilization: 3-axis (tilt, roll, pan) Mechanical Range: Tilt: -135° to 100°, Roll: -45° to 45°, Pan: -27° to 27° Controllable Range: Tilt: -90° to 35° Max Control Speed (tilt): 100°/s Angular Vibration Range: ±0.007° Sensing Type: Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft. Forward: Measurement Range: 0.5-20 m, Detection Range: 0.5-20 m, Detection Range: 0.5-20 m, Detection Range: 0.5-25 m, Upward: Measurement Range: 0.2-10 m, Downward: Measurement Range: 0.3-18 m, Video Transmission Video Transmission System: 03 Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz	Max Image Size: 4000×3000	
Bitrate: 4K: 130 Mbps, FHD: 70 Mbps Digital Zoom: 8x (56x hybrid zoom) Gimbal Stabilization: 3-axis (tilt, roll, pan) Mechanical Range: Tilt: -135° to 100°, Roll: -45° to 45°, Pan: -27° to 27° Controllable Range: Tilt: -90° to 35° Max Control Speed (tilt): 100°/s Angular Vibration Range: ±0.007° Sensing Type: Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft. Forward: Measurement Range: 0.5-20 m, Detection Range: 0.5-20 m Backward: Measurement Range: 0.5-16 m, Lateral: Measurement Range: 0.2-10 m, Downward: Measurement Range: 0.2-10 m, Downward: Measurement Range: 0.3-18 m, Video Transmission Video Transmission System: 03 Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz	Video Resolution: H.264, 4K:	
Digital Zoom: 8x (56x hybrid zoom) Gimbal Stabilization: 3-axis (tilt, roll, pan) Mechanical Range: Tilt: -135 to 100°, Roll: -45° to 45°, Pan: -27° to 27° Controllable Range: Tilt: -90° to 35° Max Control Speed (tilt): 100°/s Angular Vibration Range: ±0.007° Sensing Type: Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft. Forward: Measurement Range: 0.5-20 m, Detection Range: 0.5-20 m Backward: Measurement Range: 0.5-16 m, Lateral: Measurement Range: 0.5-25 m, Upward: Measurement Range: 0.2-10 m, Downward: Measurement Range: 0.3-18 m, Video Transmission System: O3 Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz		
Gimbal Stabilization: 3-axis (tilt, roll, pan) Mechanical Range: Tilt: -135° to 100°, Roll: -45° to 45°, Pan: -27° to 27° Controllable Range: Tilt: -90° to 35° Max Control Speed (tilt): 100°/s Angular Vibration Range: ±0.007° Sensing Type: Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft. Forward: Measurement Range: 0.5-20 m, Detection Range: 0.5-200 m Backward: Measurement Range: 0.5-16 m, Lateral: Measurement Range: 0.5-25 m, Upward: Measurement Range: 0.3-18 m, Video Transmission Video Transmission System: O3 Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz		
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Mechanical Range: Tilt: -135° to 100°, Roll: -45° to 45°, Pan: -27° to 27° Controllable Range: Tilt: -90° to 35° Max Control Speed (tilt): 100% Angular Vibration Range: ±0.007° Sensing Type: Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft. Forward: Measurement Range: 0.5-20 m, Detection Range: 0.5-200 m Backward: Measurement Range: 0.5-16 m, Lateral: Measurement Range: 0.5-16 m, Lateral: Measurement Range: 0.2-10 m, Downward: Measurement Range: 0.3-18 m, Video Transmission Video Transmission System: O3 Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz	<u>Gimbal</u>	
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Max Control Speed (tilt): 100°/s Angular Vibration Range: ±0.007° Sensing Type: Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft. Forward: Measurement Range: 0.5-20 m, Detection Range: 0.5-200 m Backward: Measurement Range: 0.5-16 m, Lateral: Measurement Range: 0.5-16 m, Lateral: Measurement Range: 0.5-25 m, Upward: Measurement Range: 0.2-10 m, Downward: Measurement Range: 0.3-18 m, Video Transmission Video Transmission System: O3 Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz		
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Detection Range: 0.5-200 mBackward: Measurement Range: 0.5-16 m, Lateral: Measurement Range: 0.5-25 m, Upward: Measurement Range: 0.2-10 m, Downward: Measurement Range: 0.3-18 m,Video TransmissionVideo Transmission System: O3 Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz		
Backward: Measurement Range: 0.5-16 m, Lateral: Measurement Range: 0.5-25 m, Upward: Measurement Range: 0.2-10 m, Downward: Measurement Range: 0.3-18 m, Video Transmission Video Transmission System: O3 Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz	0	
Lateral: Measurement Range: 0.5-25 m, Upward: Measurement Range: 0.2-10 m, Downward: Measurement Range: 0.3-18 m,Video TransmissionVideo Transmission System: O3 TransmissionLive View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz	-	
Upward: Measurement Range: 0.2-10 m, Downward: Measurement Range: 0.3-18 m, Video Transmission Video Transmission System: O3 Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz	-	
Downward: Measurement Range: 0.3-18 m, Video Transmission Video Transmission System: O3 Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz	-	
Video Transmission Video Transmission System: O3 Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz		
Video Transmission System: O3 Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz	20 minut at thousarement runge. 0.5-10 III,	
Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz	Video Transmission	
Transmission Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz	Video Transmission System: 03	
Live View Quality: Remote Controller: 1080p/30fps Operating Frequency: 2.400-2.4835 GHz	-	
1080p/30fps Operating Frequency: 2.400-2.4835 GHz		
5.725-5.850 GHz	Operating Frequency: 2.400-2.4835 GHz	
	5.725-5.850 GHz	

Signature and Seal of Bidder

	Max Transmission Distance(Unobstructed):	
	FCC: 15 km, CE: 8 km, SRRC: 8 km, MIC: 8	
	km	
	Max Transmission Distance (Obstructed):	
	Strong Interference (dense buildings,	
	residential areas, etc.): 1.5-3 km	
	(FCC/CE/SRRC/MIC), Medium Interference	
	(suburban areas, city parks, etc.): 3-9 km	
	(FCC), 3-6 km (CE/SRRC/MIC), Low	
	Interference (open spaces, remote areas, etc.):	
	9-15 km (FCC), 6-8 km (CE/SRRC/MIC)	
	Max Download Speed: 15 MB/s	
	Latency: Approx. 200 ms	
	Antenna: 4 Antennas, 2T4R	
	Transmission Power (EIRP): 2.4 GHz: <33	
	dBm (FCC), <20 dBm (CE/SRRC/MIC)	
	5.8 GHz: <33 dBm (FCC), <30 dBm	
	(SRRC), <14 dBm (CE)	
	<u>Remote Controller</u>	
	Video Transmission System: O3	
	Transmission	
	Max Transmission Distance (unobstructed):	
	FCC: 15 km, CE/SRRC/MIC: 8 km	
	Antenna: 4 Antennas, 2T4R	
	Video Transmission Transmitter Power	
	(EIRP): 2.4 GHz: <33 dBm (FCC), <20 dBm	
	(CE/SRRC/MIC) 5.8 GHz: <33 dBm (FCC),	
	<14 dBm (CE), <23 dBm (SRRC)	
	Wi-Fi Protocol: 802.11 a/b/g/n/ac/ax,	
	Support 2×2 MIMO Wi-Fi	
	Bluetooth Protocol: Bluetooth 5.1	
	Screen Resolution: 1920×1080	
	Screen Size: 5.5 inches	
	Brightness: 1,000 nits	
	Touchscreen Control: 10-point multi-touch	
	Battery: Li-ion (5000 mAh @ 7.2 V)	
	Storage Capacity: Internal Storage (ROM):	
	64 GB	
	Video Output Port: Mini-HDMI port	
	Operating Temperature Range: -10° to 40°	
	C	
	GNSS: GPS+Galileo+GLONASS	

Signature and Seal of Bidder

BatteryCapacity: 5000 mAhStandard Voltage: 15.4 VMax Charging Voltage: 17.6 VType: LiPo 4SChemical System: LiCoO2Energy: 77 WhWeight: 335.5 gChargerInput: 100-240 V (AC Power), 50-60 Hz, 2.5 AOutput Power: 100 WOutput: Max. 100 W	
RTK ModuleWeight: 24±2 gInterface: USB-CPower: Approx. 1.2 WRTK Positioning Accuracy: (RTK Fix)Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm +1 ppmTrainingOne week training of 3 personnels in Office as well as Field settings for Drone operations, surveying, mapping and data processing	
Warranty 1 year warranty from the supplier Included Accessories Hard Shell Carrying Case: Included Screwdriver: Included Additional Accessories 1. Charging Hub with extra batteries	

			Batteries: 3(three) extra batteries with same specs as mentioned in battery section above Charging Hub:	
			Input: USB-C: 5-20 V, 5.0 A	
			Output: Battery Port: 12-17.6 V, 8.0 A Rated Power: 100 W	
			Charging Type: Three batteries charged in	
			sequence	
			2. External Storage	
			128GB Kingston Canvas Go! Plus V30 A2	
			microSDXC or Kingston Canva React Plus V90 A1 microSDXC	
			<u>3. Car Charger: 65W</u>	
			Input Voltage: 12.7-16 V, 6.5 A	
			DC Output USB-C:	
			5 V, 5 A 9 V, 5 A	
			12 V, 5 A	
			15 V, 4.3 A	
			20 V, 3.25 A	
			5-20 V, 3.25 A USB-A: 5 V/2 A	
			05D-A. 5 V/2 A	
			4. Shoulder Bag	
			Tailored for the aircraft and its accessories.	
2			UAV	
			Weight: ≤ 250 g (with propellers, without ac-	
			cessories)	
			Max Flight Time: \geq 45 minutes (in windless conditions)	
			Max Hover Time: \geq 39 minutes (in windless	
	Drone –	02	conditions) Max Flight Distance: ≥ 20 km (FCC)	
	II		Max Flight Speed (at sea level, no wind): 12	
			m/s (Normal Mode) Max Wind Resistance: 10.7 m/s	
			Max Takeoff Altitude: 4000 m above sea	
			level	
			GNSS: GPS, Galileo, BeiDou Operating Temperature Range: -10° to	
			40°C	

	Comore Sustan	
	<u>Camera System</u>	
	Sensor: $\geq 1/1.3$ -inch CMOS, Effective pixels	
	\geq 48 MP	
	Lens: FOV 82.1°, Format Equivalent: 24 mm,	
	Aperture: f/1.7	
	ISO Range: 100-6400	
	Shutter Speed: Electronic Shutter: 1/8000-2 s	
	Max Image Size: 8064×6048	
	Still Photography Modes: Single, Burst, Timed, and AEB modes	
	Video Resolution: 4K: 3840×2160 @ 100	
	fps, FHD: 1920×1080 @ 200 fps	
	Bitrate: \geq 150 Mbps	
	*	
	Gimbal & Stabilization	
	Stabilization: 3-axis mechanical gimbal (tilt,	
	roll, pan) Machanical Bangat Tilt: 125° to 80° Ball:	
	Mechanical Range: Tilt: -135° to 80°, Roll: - 135° to 45°, Pan: -30° to 30°	
	Controllable Range: Tilt: -90° to 60°	
	Sensing System	
	Obstacle Sensing: Omnidirectional binocular	
	vision system	
	Forward Measurement Range: 0.5-18 m,	
	Detection Range: 0.5-200 m	
	Backward Measurement Range: 0.5-15 m,	
	Effective Sensing Speed: $\leq 12 \text{ m/s}$	
	Video Transmission	
	Transmission System: O4 Transmission or	
	equivalent Live View Quality: 1080p/30fps	
	Operating Frequency: 2.4 GHz / 5.85 GHz-	
	Max Transmission Distance (Unob-	
	structed): FCC: 20 km, CE: 10 km	
	Latency: $\leq 120 \text{ ms}$	
	Antenna: 4 Antennas, 2T4R	
	Domoto Controllor	
	<u>Remote Controller</u>	
	Max Operating Time: Without charging any	
	mobile device: 6 hours	
	Max Supported Mobile Device Size:	
	180×86×10 mm (L×W×H)	
	Operating Temperature: -10° to 40° C	
	Signature and Seal of Bidder	Page 32 of 55

Signature and Seal of Bidder

and Field settings for Drone operations, surveying, mapping and data processing Warranty 1 year warranty from the supplier Accessories	Video Transmission Operating Frequency: 2.4000-2.4835 GHz, 5.170-5.250 GHz, 5.725- 5.850 GHz Transmitter Power (EIRP): 2.4 GHz: < 33 dBm (FCC), < 20 dBm (CE/SRRC/MIC) 5.1 GHz: < 23 dBm (CE) 5.8 GHz: < 33 dBm (FCC), < 14 dBm (CE), < 30 dBm (SRRC) Battery & Charger Battery Type: Li-ion high-capacity intelligent battery Battery Capacity: ≥ 3850 mAh Standard Voltage: 7.38 V Max Charging Voltage: 8.5 V Charging Time: ≤ 90 minutes per battery Charger: 30W USB-C Charger Training One week training of 3 personnels in Office
	surveying, mapping and data processing
Accessories	
Accessories1. Charging Hub: Supports sequential charging of three batteries2. Three extra Batteries3. Spare Propellers (at least 4 pairs)4. Carrying Case5. External Storage Kingston Canvas GO! Plus 128GB V30 U3 A2 microSDXC or Kingston Canvas React Plus 128GB V90 U3 A1 microSDXC Additional Accessories6. Car Charger (30W)7. Shoulder Bag (tailored for drone and accessories)	 Charging Hub: Supports sequential charging of three batteries Three extra Batteries Spare Propellers (at least 4 pairs) Carrying Case External Storage Kingston Canvas GO! Plus 128GB V30 U3 A2 microSDXC or Kingston Canvas React Plus 128GB V90 U3 A1 microSDXC Additional Accessories Car Charger (30W) Shoulder Bag (tailored for drone and acces-

3			IP Rating: IP65 or IP67	
			GNSS Frequency:	
			GPS, BEIDOU, GLONASS, Galileo	
			or GPS, BDS, GALILEO, GLONASS,	
			QZSS	
			Positioning Accuracy (RTK):	
			Horizontal : 1 cm+ 1 ppm(RMS)	
			Vertical : 2 cm+ 1 ppm(RMS)	
			Horizontal: 0.8 cm (RMS) + 1 ppm Vertical: 1.5 cm (RMS) + 1 ppm	
			vertical. 1.5 cm (tevis) + 1 ppm	
			Differential Data Format: RTCM	
			Operating Frequency: L1, L2, and L5	
			Bands	
			Power Consumption:	
	High-		12 W	
	Precision		Or	
	RTK	01	Relay Station: 14.5 W	
	Base	UI	Base Station: 7 W	
	Station		Rover Station: 6.2 W	
	for UAV		BatteryType: Lithium-ion or LiPo bat-	
			tery	
			Capacity: 4920 mAh or 6500mAh	
			O	
			Operating Temperature: -20° to 55° C	
			Accessories	
			<u>Tripod</u>	
			High quality tripod compatible with	
			RTK station for Setting up the GNSS	
			Mobile station	
			Or	
			Self-locking Survey Pole and Dual-lock	
			Tripod	
			1	

Prices

Item No.	Description	Quantity	Unit Rate (Rs)	GST on Unit price	Unit Rate (Rs) with GST	Total Amount (Rs)
1.						
Total (to be carried to Summary of Bid Price)						

Timeline for Delivery of Goods:

Successful bidder will deliver the goods according to guidelines provided below:

For LOT- 3: - 60 Days after the issuance of purchase order.

Terms & conditions: - (On Official Letter Head of the Bidder)

Sealed bids (as per prescribed bid forms) addressed to the Director Procurement (AGM), Geological Survey of Pakistan, Lahore will be received till **27-03-2025**, **12:00** hours and will be opened at **12:30** hours on same date in the presence of all bidders or their authorized representative who may choose to attend.

- 1. The warranty period of the drones and other Instrument will be 1 year. The warranty period starts after the successful issuance of the inspection report after delivery of the equipment.
- 2. Bids should accompany a pay order as bid security for an amount equal to Rs. 50,000/- of the bid price in the name of the Director General, Geological Survey of Pakistan. Failure to furnish the same shall lead to disqualification of the bid.
- 3. The bidder will provide a Performance Guarantee for an amount equal to 10% of the total price of the contract at the time of signing the contract agreement and performance guarantee will remain valid till the expiry date of warranty.
- 4. Income tax/GST (if admissible) will be charged as per prevailing laws of the Government of Pakistan by bidders.
- 5. Bids should be free from cutting/overwriting. The bid amount should be written both in figure as well as in words which must be clear and legible. Failure to do so shall lead to disqualification from the bid.
- 6. Bids have a minimum validity period of 120 days from the last date for submission of the Tender.
- 7. The quoted rates once offered by the bidder will not be changed during the contract and Dollar to Pak rupee rate fluctuation will not affect the BID price.
- 8. The successful bidders shall be required to supply items within **Sixty (60) days** from the date of issuance of supply order.
- 9. The Competent Authority/Procurement Committee reserves the right to accept or reject any or all bids after assigning proper reasons before submission and after opening of bids.
- 10. The Bidders to quote their full Name, Contact number, Address and National Identity Card number.
- 11. At the time of supply, below par specification goods will result in cancellation of bid.
- 12. The purchase committee may decrease or increase the number of items if required.
- 13. Conditional/Incomplete bids shall not be accepted.
- 14. DELIVERY:
 - a. The material strictly in accordance with the specification must be delivered through Delivery Challan in triplicate at the place and within the time mentioned in this order by the successful bidder at their own expense.
 - b. Time is of the essence for this order.
- 15. INSPECTION: All items of this order will be subject to acceptance/rejection by the Inspection Committee/3rd Party Inspector (if required). Rejected material shall be removed/replaced by the Supplier within 07 days from the date of receipt of the letter/fax/electronic communication, issued by the procurement committee.

- 16. If the supplier fails to materialize the delivery (material and or services); the Procuring agency reserves the right to cancel Purchase order and to forfeit the performance guarantee after intimating the supplier for such cancellation/forfeiture after deadline for delivery of equipment.
- 17. GOVERNING LAW: This Procurement and any matter relating thereto shall be governed by the prevailing laws of Govt. of Pakistan and PPRA rule 2004.
- 18. WARRANTIES: Supplier/Seller warrants that all goods, material, equipment or services furnished herein above will conform strictly to the Procuring agency's specifications.
- 19. COMPLIANCE WITH LAWS: Supplier/seller agrees to indemnify the Purchase for any loss, damage or cost suffered by the Procuring agency as a consequence of the Supplier/seller's failure, deliberate or otherwise, to comply with any applicable laws, rules, regulations or orders/directives of any public sector entity and/or Government.
- 20. ARBITRATION: Any dispute, difference or question arising out of or in respect of this Purchase Order shall be settled by arbitration in accordance with the Grievances redressal committee.

<u>LOT- 4</u>

Purchase of Hyperspectral Imaging System

List of Mandatory Documents for Eligibility

Sr.	Documents.	Remarks		
1	Certificate of Company/Firm Registration/Corporation under the laws of Pakistan with minimum 03 years of Experience			
2	Registration of NTN with Federal Board of Revenue (FBR) and having Active Taxpayer status.	Valid certificates/e-certification from concerned regulator/ authority is required.		
3	Registration of General Sales Tax (GST) with Federal Board of Revenue (FBR) and having Active Taxpayer status.			
7	The bidder should have a fully operational office/ Head office in any major city of Pakistan.	Proof of Office setup and address		
8	Affidavit that the firm is neither blacklisted nor involved in any active litigation in Pakistan.	Annexure-6		
9	Pay Order/Call Deposit Receipt/ Bank Draft for Bid Security of Rs. 500,000/	Original is required.		
10	At least 50 million cumulative turnover for the last three (3) years	Bank statement for last three (03) years		

Technical Evaluation, Procedure and Criteria

- a) Initially, only the "TECHNICAL PROPOSAL" shall be opened.
- b) The technical proposals shall be evaluated for compliance with mandatory documents for eligibility and technical specifications of items being procured through this tender, without reference to the price. The technical proposal which does not conform to these requirements will be rejected.
- c) Compliance with all mandatory and technical requirements is a prerequisite for eligibility to participate in the Financial Bid opening.
- d) The Financial Proposal of bids found technically non-responsive or unqualified shall be returned un-opened to the respective bidders.
- e) The "FINANCIAL PROPOSAL" shall be opened in the presence of Procurement Committee members and the representatives of the technically qualified bidders who may choose to attend.
- f) The opened financial proposals will be thoroughly evaluated, and total amounts will be verified for accuracy. The contract will be awarded to the lowest-priced bid that is fully compliant with all requirements.
- g) The bidders will provide a performance guarantee equivalent to **5%** of the bid value at the time of signing of the contract agreement.
- h) The Purchase Order will be issued after signing of the contract agreement.
- i) The place of delivery of equipment will be the DIVISIONAL OFFICE, GEOLOGICAL SURVEY OF PAKISTAN, JOHAR TOWN, LAHORE.

	Bank Account Details
i	Title of Bank Account:
	Bank Account No.
	Name of Bank and
	address

Technical Specifications for Hyperspectral Imaging System

Na	me of Firm			
Co	mplete Addre	ess		
Ve	nder No.			
Telephone & Fax No.		x No.	National Tax Number (NTN)	Sales Tax Registration No.
Sr #	Items	Quantity	Minimum Specifications Required	Specification Being Offered with Make and Model
	Pavload	01	Unmanned Aerial Vehicle (UAV)Type: Industrial-grade quadcopter or multirotor droneFlight Time: Minimum 50 minutes without payloadPayload Capacity: Minimum 2.5 kgPositioning System: GPS + GLONASS + BeiDou + GalileoRTK Module: RTK antennas with centimeter- level positioning accuracyLive View Camera: FPV with 1080p ResolutionObstacle Avoidance: Multi-directional sensing with real-time positioning adjustmentsCamera and Sensor Support: Compatible with LiDAR, hyperspectral, and thermal camerasWeather Resistance: Minimum IP55 rating for dust and water resistanceOperating Temperature: -20° to 50° C Communication Range: Minimum 10 km Battery: Smart battery system with hot-swap capability	and Model
			Remote Controller Screen: ≥ 6-inch LCD touchscreen Resolution: at least 1920×1200 Brightness: ≥1100 nits Global Navigation Satellite System: GPS + Galileo + BeiDou	

	Built-in Battery: Li-ion ≥6000 mAh	
	External Battery: Li-ion ≥4500 mAh	
	Protection Rating: IP54 or better	
	Operating Time: Built-in Battery + External	
	Battery \geq 5 hours	
	Operating Temperature: -20° to 50° C	
	Wi-Fi Protocol: Wi-Fi 6 or better	
	Bluetooth: Bluetooth 5.1 or better	
	Directoria: Directoria 5.1 of better	
	Included Accessories:	
	Carrying Case× 1	
	Landing Gear× 2	
	Propellers (Pair) $\times 1$	
	Screws and Tools× 1	
	Cleaning Tools× 1	
	C C	
	Spare Gimbal Damper× 4	
	Rubber Port Cover (Set)× 1	
	Software and Connectivity	
	Flight Control Software: Supports mission	
	planning, autonomous flight, and	
	georeferenced data capture	
	-	
	Data Interface: USB 3.0, Ethernet, or	
	equivalent high-speed interface	
	Post-Processing Software: Includes	
	RTK/PPK processing and mapping	
	capabilities	
	UAV Gimbal System and Mounting	
	<u>Interface</u>	
	Gimbal: Two (2) compatible gimbles having	
	3-axis active stabilization	
	Dual Gimbal Connector: One (1) Dual	
	gimbal connector for heavier payloads	
	Mounting Interface: At least two (2) Skyports	
	or equivalent for payload integration	
	er equivalent for puptour integration	
	Battery Station with extra Batteries	
	Battery Station: One (1) compatible Battery	
	station to charge multiple batteries	
	Batteries: Three (3) extra compatible Batteries	
I		

			<u>RTK Ground-Base Station</u>	
			GNSS Support: Multi-constellation (GPS,	
			GLONASS, BeiDou, Galileo)	
			Correction Support: RTK/PPK differential	
			correction for high-precision mapping	
			Communication: Wireless data link with	
			drone for real-time correction	
			Spectral Range: 400–1000 nm	
			Spectral Resolution: $\leq 5 \text{ nm}$	
			Spatial Pixels: Minimum 640	
			Bands: Minimum 200 spectral bands	
			Signal-to-noise ratio: 600/1 or better	
			Weight: $\leq 1.5 \text{ kg}$	
			Data storage space: High-speed SSD 128 GB	
	Umanana		or more	
	Hyperspe	01	Application software: data acquisition,	
2	ctral Camera -		processing and analysis software	
	I I		UAV Support: skyport/adopter for UAV	
	1		mounting (the camera must be compatible with	
			the Payload Drone detailed above at Sr. No. 1)	
			Data Interface: USB3.0 or Gigabit network, or	
			equivalent high-speed interface	
			Training: Necessary training ≥ 1 week in Lab	
			and field setting	
			C C	
			Warranty: I year warranty from the supplier Spectral Range: 1000–2500 nm	
			Spectral Resolution: $\leq 12 \text{ nm}$	
	Hyperspe	01	Spatial Pixels: Minimum 380	
			Bands: Minimum 200 spectral bands	
			Cooling:	
			Weight: \leq 4 kg (must be portable for field de-	
			ployment)	
3	ctral		Power: Battery-operated Storage: Compatible SSD 128 GB or more	
C	Camera –		Application software: data acquisition,	
	II		processing and analysis software	
			Accessories: Tripod & Mounting System, Addi-	
			tional Batteries 2x, Carrying Case	
			Training: Necessary training ≥ 1 week in Lab	
			and field setting	
			Warranty: I year warranty from the supplier	
	LiDAR Sensor	01	Laser Wavelength: in-between 600 nm to	
4			1600nm	
			Point Density: Minimum 200,000 pts/sec	
L			v intervention	

	Accuracy: ≤ 5 cm vertical and ≤ 10 cm horizon- tal	
	Field of View (FOV): Minimum 30°	
	Weight: $\leq 1 \text{ kg}$	
	IP Rating: ≥IP54	
	IMU/GNSS Integration: High-accuracy inertial	
	measurement system with RTK support	
	Storage: integrated microSD card ≥ 128GB	
	with Sequential writing speed 50 MB/s or above	
	and UHS-I Speed Grade 3 rating or above	
	Gimbal: 3-axis (tilt, roll, pan)	
	UAV Support: skyport/adopter for UAV	
	mounting (the Lidar Sensor must be compatible	
	with the Payload Drone detailed above at Sr. No.	
	(1)	
	Application software: data acquisition, and	
	post-processing and analysis software	
	Training: Necessary training ≥ 1 week in Lab	
	and field setting	
	Warranty: I year warranty from the supplier	

Prices

Item No.	Description	Quantity	Unit Rate (Rs)	GST on Unit price	Unit Rate (Rs) with GST	Total Amount (Rs)
1.						
			Total (to	he carri	ed to Summary of Bi	d Price)

Timeline for Delivery of Goods:

Successful bidder will deliver the goods according to guidelines provided below:

For LOT 4: - $\frac{60}{100}$ Days after the issuance of purchase order.

Terms & conditions: - (On Official Letter Head of the Bidder)

Sealed bids (as per prescribed bid forms) addressed to the Director Procurement (AGM), Geological Survey of Pakistan, Lahore will be received till **27-03-2025**, **12:00** hours and will be opened at **12:30** hours on same date in the presence of all bidders or their authorized representative who may choose to attend.

- 1. The warranty period of Instruments supplied will be 1 year. The warranty period starts after the successful issuance of the inspection report after delivery of the equipment.
- 2. Bids should accompany a pay order as bid security for an amount equal to Rs. 500,000/- of the bid price in the name of the Director General, Geological Survey of Pakistan. Failure to furnish the same shall lead to disqualification of the bid.
- 3. The bidder will provide a Performance Guarantee for an amount equal to **5%** of the total price of the contract at the time of signing the contract agreement and performance guarantee will remain valid till the expiry date of warranty.
- 4. Income tax/GST (if admissible) will be charged as per prevailing laws of the Government of Pakistan by bidders.
- 5. Bids should be free from cutting/overwriting. The bid amount should be written both in figure as well as in words which must be clear and legible. Failure to do so shall lead to disqualification from the bid.
- 6. Bids have a minimum validity period of 120 days from the last date for submission of the Tender.
- 7. The quoted rates once offered by the bidder will not be changed during the contract and Dollar to Pak rupee rate fluctuation will not affect the BID price.
- 8. The successful bidders shall be required to supply items within **Sixty (60) days** from the date of issuance of supply order.
- 9. The Competent Authority/Procurement Committee reserves the right to accept or reject any or all bids after assigning proper reasons before submission and after opening of bids.
- 10. The Bidders to quote their full Name, Contact number, Address and National Identity Card number.
- 11. At the time of supply, below par specification goods will result in cancellation of bid.
- 12. The purchase committee may decrease or increase the number of items if required.
- 13. Conditional/Incomplete bids shall not be accepted.
- 14. DELIVERY:
 - a. The material strictly in accordance with the specification must be delivered through Delivery Challan in triplicate at the place and within the time mentioned in this order by the successful bidder at their own expenses.
 - b. Time is of the essence for this order.
- 15. INSPECTION: All items of this order will be subject to acceptance/rejection by the Inspection Committee/3rd Party Inspector (if required). Rejected material shall be removed/replaced by the Supplier within 07 days from the date of receipt of the letter/fax/electronic communication, issued by the procurement committee.

- 16. If the supplier fails to materialize the delivery (material and or services); the Procuring agency reserves the right to cancel Purchase order and to forfeit the performance guarantee after intimating the supplier for such cancellation/forfeiture after deadline for delivery of equipment.
- 17. GOVERNING LAW: This Procurement and any matter relating thereto shall be governed by the prevailing laws of Govt. of Pakistan and PPRA rule 2004.
- 18. WARRANTIES: Supplier/Seller warrants that all goods, material, equipment or services furnished herein above will conform strictly to the Procuring agency's specifications.
- 19. COMPLIANCE WITH LAWS: Supplier/seller agrees to indemnify the Purchase for any loss, damage or cost suffered by the Procuring agency as a consequence of the Supplier/seller's failure, deliberate or otherwise, to comply with any applicable laws, rules, regulations or orders/directives of any public sector entity and/or Government.
- 20. ARBITRATION: Any dispute, difference or question arising out of or in respect of this Purchase Order shall be settled by arbitration in accordance with the Grievances redressal committee.

Annexure-1



<u>Government of Pakistan</u> <u>MINISTRY OF ENERGY (PETROLEUM DIVISION)</u> <u>Geological Survey of Pakistan</u>

Tender Submission

Chairman Purchase Committee, Geological Survey of Pakistan (GSP), Trade Center near Expo Center, Lahore. Ph. +92-42-99232933-4, Fax. 042-99232940.

Reference your Advertisement No. PID ______dated _____ regarding TENDER for PURCHASE OF ANALYTICAL AND SURVEYING EQUIPMENT,

1. We, hereby submit our bid along-with the requirements as per the TENDER document. We acknowledge that GSP is not bound to accept any proposal in this regard and reserve the right to accept or reject any offer and to annul the TENDER process and reject all proposals with/without assigning any reason or having to owe any explanation whatsoever, as per PPRA guidelines.

2. The decision of Selection / Evaluation Committee shall be final and the Committee will not be liable for any loss or damage to any party acting in reliance thereon.

3. We agree to respond to GSP requests within required time in case we qualify for the subject project as mentioned in TENDER documents.

4. We submit herewith our bid as one original.

5. We undertake that all the information submitted by us is correct and true to the best of our knowledge and belief and nothing has been concealed and misstated by us in the TENDER. In case any information is found wrong, misleading or misstated in this TENDER, the same may lead to rejection of our bid and our disqualification for further proceedings in the subject procurement process.

6. We declare that our TENDER is our only and final and no unsolicited offer of any description shall be made for consideration of the GSP.

Authorized Signature:

Name and Title of Signatory:

Name & Address of Firm:



Bid Security (Pay Order/CDR)

<u>Geological Survey of Pakistan</u> <u>Near Expo Centre, Johar Town, Lahore.</u>

Attach original pay order here

INTEGRITY PACT

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS. 10.00 MILLION OR MORE

Dated _____

Without limiting the generality of the foregoing, [name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[name of Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

Name of Seller/Supplier:

Signature:

[Seal]

annexure -4

(On official letterhead of the bidder)

FAIR PRICE CERTIFICATE

WE M/S _______ HEREBY CERTIFY THAT PRICES QUOTED BY US AGAINST GEOLOGICAL SURVEY OF PAKISTAN TENDER ENQUIRY NO. PID ______ ARE THE MOST ADVANTAGEOUS AND MOST COMPETITIVE AS GENERALLY APPLICABLE TO ALL OTHER BUYERS AND OR SOLD THROUGH OUR AGENTS AS PER PREVAILING INTERNATIONAL MARKET AS ON THE DATE OF QUOTE AND IF IT IS ESTABLISHED AT ANY STAGE THAT THESE WERE HIGHER WE SHALL BE HELD RESPONSIBLE AND AGREE TO PAY IMMEDIATELY THE DIFFERENTIAL TO GEOLOGICAL SURVEY OF PAKISTAN.

SIGNATURE AND SEAL OF THE MANUFACTURER/SOLE AGENT/AUTHORIZED DEALER

NOTE: FAIR PRICE CERTIFICATE WILL BE REQUIRED, IN CASE SINGLE BID IS FOUND TECHNICALLY RESPONSIVE IN THE RESPECTIVE TENDER.

(On official letter-head of the contractor) To be signed by the Chief Executive of the bidding company or a representative duly authorized by board resolution.

(On official letterhead of the bidder)

To be signed by the Chief Executive of the bidding company or a representative duly Authorized by board resolution.

INTEGRITY AND ETHICS UNDERTAKING

We hereby commit and undertake to observing the following principles during our participation in the tender process and during the contract execution:

- a) That we will not directly or through any other person or firm, offer promise or give to any of the employees of GSP involved in the tender process or execution of the contract any gain, pecuniary benefit or facilitation payment in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of contract.
- b) That we have not and will not enter with other bidders into any undisclosed agreement or understanding either formal or informal to restrict competitiveness or to cartelize in the bidding process.
- c) That we will ensure that the remuneration of agents (if engaged) is appropriate and for legitimate services only.
- d) That we will not use subcontracts, purchase orders or consulting agreements as means of channeling payments to employees of GSP.
- e) That we will not commit any offence under the Pakistan Penal Code, Prevention of Corruption Act or National Accountability Ordinance to achieve any advantage, gain or benefit during the tender process or the execution of contract.

We further understand and acknowledge that any violation or transgression of the abovementioned principles will attract disqualification from the tender process and may also result in permanent exclusion from future contact award processes.

We also accept and undertake to respect and uphold GSP's absolute right to resort to and impose such disqualification, debarment or exclusion.

For and on behalf of: _____

(On Stamp paper)

Mandatory for Participation in Bidding process

AFFIDAVIT

I, _____ S/o _____ aged _____ years working as Proprietor / Managing Partner / Director of M/s ______ having its registered office at ______ do hereby solemnly affirm and declare on oath asunder:

- That I am competent to swear this affidavit being proprietor / one or the partners / Director of M/s ______
 That M/s ______ is a proprietorship / partnership firm / company
- 2. That M/s ______ is a proprietorship / partnership firm / company is participating in tender process conducted by GSP.
- 3. That I hereby confirm and declare that none of my/our group/sister concern/associate company is participating/ submitting this tender.
- 4. That I hereby confirm and declare that my/our firm/company M/s and my I our firm/ group/ company/ sister concern/ associate company have not been blacklisted / de-listed by any Institutional agencies / Govt. Dept/ Public Sector Undertaking.
- 5. That I further undertake that in case any of the facts contained above and in-our application is round other-wise or incorrect or false at any stage, my/ our firm/ company/ group/ sister concerns/ associate companies shall stand debarred from the present and future tenders of the GSP.

(Signature of the Proprietor/ Managing Partner/Director with Seal)

DEPONENT

Verified at ______ on _____ that the contents of paras 1 to 5 of this affidavit are true and correct to best of my knowledge and no part of this is false and nothing material has been concealed or falsely stated there in.

(Signature of the Proprietor/ Managing Partner/ Director with Seal) DEPONENT

(Signature & Seal of Notary)