



مشروع دعم سلسلة القيمة للصفح العربي
ACACIA ARABIC GUM VALUE CHAIN IN SUDAN SUPPORT

BIDDING DOCUMENT FOR NATIONAL PROCUREMENT COMPETITION			
RQ	REQUEST FOR QUOTATIONS		
PROVISION OF THE PROCUREMENT OF GOODS Call for Quotations for Monitoring Drones			
RQ Reference	RQ/KRT/PMU/PROC/G/022/002		
BD-No Objection	AFD No-objection		
Project Name	ACACIA Arabic Gum Value Chain in Sudan Support AAGVCSS PROJECT FNC/AFD-EU		
Country	Sudan	Issuance Date	12 Dec. 2022





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To be filled and/or submitted by the bidder duly signed and stamped.





AAGVCSS Project kindly requests your quotations for the provision of the procurement of goods, as detailed in the sections above provisions of RQ instructions, data and schedule requirements as stated by various sections of this RQ.

Please acknowledge receipt of this Request for Quotations (RQ) by sending an email to the AAGVCSS National Project Coordinator faizasgas@gmail.com, with Cc to the Procurement and Administration Manager siraj.shareef@gmail.com indicating whether you intend to submit your Proposals or Otherwise.

When preparing your quotations, please be guided by the RQ instructions, provisions and guidance data. Please note that quotations must be submitted using Quotation Submission Forms as well as Technical and Financial Submission forms, by the method and by the date and time indicated.

It is your responsibility to ensure that your quotations and other requirements are duly signed and submitted on or before the deadline. Quotations received after the submission deadline, for whatever reason, will not be considered for evaluation.

Thank you and we look forward to receiving your quotations.

Regards

Name: Dr. Faiza Siddig

Title: National Project Coordinator

AAGVCSS Project in Sudan

Date: 11 NOV 2022





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SECTION 2: INSTRUCTIONS TO BIDDERS

Introduction	<p>Bidders shall adhere to all the requirements of this RQ, including any amendments made in writing by AAGVCSS Project. This RQ is conducted in accordance with the <u>AFD Procurement Guidelines, Policies and Procedures, Laws and Regulations.</u></p> <p>Any Bid submitted will be regarded as an offer by the Bidder and does not constitute or imply the acceptance of the Bid by AAGVCSS. AAGVCSS is under no obligation to award a contract to any Bidder because of this RQ.</p> <p>AAGVCSS reserves the right to cancel the procurement process at any stage without any liability of any kind for AAGVCSS, upon notice to the bidders.</p>
Deadline for the Submission of Quotation	<p>22 Dec. 2022</p> <p>Do not let the last minute come.</p>
Method of Submission (Soft and Hard)	<p>Quotations must be submitted as Dedicated Email Addresses passworded financial proposal and Delivery of Hard Copy in this case of National Procurement Competition mode.</p> <p><u>Bid submission address:</u> KRT2/Forests National Corporation Building – 2nd Floor Project Procurement Office</p> <p>To the National Project Coordinator e. mail - faizasgas@gmail.com, with Cc, the Procurement & Admin Manager e. mail - siraj.shareef@gmail.com.</p> <p>Forest National Corporation - AAGVCSS Project, Khartoum Office, Sudan Khartoum2, Katrina Street, FNC Building 2nd Floor.</p> <ul style="list-style-type: none">• File Format: Standards pdf or scanned copies in case of email submission• File names must be maximum 60 characters long and must not contain any letter or special character other than from Latin alphabet/keyboard.• All files must be free of viruses and not corrupted.• Max. File Size per transmission: 20MB• The bidder should receive an email acknowledging email receipt.
Cost of Preparation of Quotation	<p>AAGVCSS Project shall NOT be responsible for any costs associated with a Supplier's preparation and submission of a quotation, regardless of the outcome or the manner of conducting the selection process.</p>
Supplier Code of Conduct, Fraud, Corruption,	<p>AAGVCSS Project strictly enforces a policy of zero tolerance on proscribed practices, including fraud, corruption, collusion, unethical or unprofessional practices, and obstruction of AAGVCSS vendors and requires all bidders/vendors to observe the highest standard of ethics during the procurement process and contract implementation.</p>





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Act of Corruption	Means any act of Corruption of a Public Officer or Corruption of a Private Person, it being understood that corruption can be active (act of promising or giving an advantage to somebody) or passive (act of receiving an advantage).
Corruption of a Private Person	<p>The act of promising, offering or giving to any Private Person, directly or indirectly, an undue advantage of any kind for himself or for another Person or entity, for such Private Person to perform or refrain from performing any act in breach of its legal, contractual or professional obligations; or</p> <p>The act by which any Private Person solicits or accepts, directly or indirectly, an undue advantage of any kind for himself or for another Person or entity, for such Private Person to perform or refrain from performing any act in breach of its legal, contractual or professional obligations.</p>
Corruption of a Public Officer	<p>The act of promising, offering or giving to a Public Officer, directly or indirectly, an undue advantage of any kind for himself or for another Person or entity, for such Public Officer to act or refrain from acting in his official capacity; or</p> <p>The act by which a Public Officer solicits or accepts, directly or indirectly, an undue advantage of any kind for himself or for another Person or entity, for such Public Officer to act or refrain from acting in his official capacity.</p>
Fraud	Means any dishonest conduct (act or omission), whether or not it constitutes a criminal offence, deliberately intended to deceive others, to intentionally conceal items, to violate or vitiate consent, to circumvent legal or regulatory requirements and/or to violate internal rules in order to obtain illegitimate profit.
Gifts and Hospitality	Bidders/vendors shall not offer gifts or hospitality of any kind to AAGVCSS staff members even including recreational trips to sporting or cultural events, theme parks or offers of holidays, transportation.
Conflict of Interest	<p>AAGVCSS requires every Prospective Supplier to avoid and prevent conflicts of interest, by disclosing to AAGVCSS if you, or any of your affiliates or personnel, were involved in the preparation of the requirements, design, specifications, cost estimates, and other information used in this RQ.</p> <p>Bidders shall strictly avoid conflicts with other assignments or their own interests, and act without consideration for future work. Bidders found to have a conflict of interest shall be disqualified.</p> <p>(1) is an affiliate controlled by the AAGVCSS, unless the stemming conflict of interest has been brought to the attention of AFD and resolved to its satisfaction;</p> <p>(2) has a business or a family relationship with a AAGVCSS's staff involved in the procurement process or the supervision of the resulting contract, unless the stemming conflict of interest has been brought to the attention of AFD and resolved to its satisfaction;</p>





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	<p>(3) Is controlled by or controls another Applicant, Bidder or Consultant or is under common control with another Applicant, Bidder or Consultant, receives from or grants subsidies directly or indirectly to another Applicant, Bidder or Consultant, has the same legal representative as another Applicant, Bidder or Consultant, maintains direct or indirect contacts with another Applicant, Bidder or Consultant which allows it to have or give access to information contained in the respective Applications, Bids or Proposals, to influence it or influence the decisions of the Beneficiary;</p> <p>(4) Is engaged in a consulting services activity which, by its nature, may be in conflict with the assignments that it would carry out for the Project;</p> <p>(5) Has prepared or has been associated with a consultant who prepared specifications, drawings, calculations, terms of reference and other documentation for the procurement process; In the case of a procurement procedure for works, plants or goods, has been recruited or is proposed to be recruited, including any of its affiliates, to carry out works supervision or inspection for this contract.</p> <p>(6) is state-owned entity, which is not able to provide evidence that</p> <ul style="list-style-type: none">• it is legally and financially autonomous and/or• it does operate under commercial law.
Corruption and Fraud	<p>The Beneficiary and the Applicants, Bidders or Consultants must observe the highest standard of ethics during the procurement process and contract execution. In the procurement process of contracts financed in part or in whole by AFD, the Beneficiary undertakes to:</p> <p>Any Applicant, Bidder or Consultant shall declare that:</p> <ul style="list-style-type: none">• Procurement Documents it did not engage in any practice likely to influence the procurement process and corresponding contract award to the Beneficiary's detriment, and that it did not and will not get involved in any Anti-Competitive Practice, and that (ii) the negotiation, the procurement process and the performance of the contract did not and shall not give rise to any Act of Corruption or Fraud;• Procurement contracts related thereto, a provision requiring that any Applicant, Bidder or Consultant shall permit AFD to inspect their accounts and records relating to the procurement process and performance of the contract, and to have them audited by auditors appointed by AFD.• AFD reserves the right to take any action it deems appropriate to check that these ethics rules are observed and reserves, in particular, the rights to:• Reject a proposal for a contract award if it is established that the Bidder or Consultant that is recommended for the award has been convicted of an Act of Corruption, directly or by means of an agent, or has engaged in Fraud or Anti-Competitive Practices for the purpose of being awarded the contract;





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	<ul style="list-style-type: none">• Declare mis procurement and exercise its rights on the ground of the Financing Agreement's provisions relating to early repayment or termination, where appropriate, when it is established that, at any time, the Beneficiary or its representatives have engaged in Acts of Corruption, Fraud or Anti-Competitive Practices during the procurement process or execution of the contract without the Beneficiary having taken appropriate action in due time satisfactory to AFD (unless otherwise provided for in the Financing Agreement) to remedy the situation, including by failing to inform AFD at the time they knew of such practices.
General Conditions of Contract	Any Contract that will be issued because of this RQ shall be subject to the General Conditions of Contract made by AAGVCSS.
Special Conditions of Contract	Cancellation of contract if the delivery/completion is delayed by the bidder.
Eligibility	<p>A vendor who will be engaged by AAGVCSS may NOT be suspended, debarred, or otherwise identified as ineligible by AAGVCSS.</p> <p>Vendors are therefore required to disclose to SGAVC whether they are subject to any sanction or temporary suspension by UN, EU, WB, AFD, IOs, NGOs...etc. Failure to do so may result in termination of any contract subsequently issued to the vendor by AFD/AAGVCSS.</p> <p>Bidders must have the full capacity to enter a binding contract with AAGVCSS and to deliver in the SGAVC office, through an authorized representative. Failure to do so may result in termination of any contract subsequently issued to the vendor by AAGVCSS Project.</p> <p>Bidder's responsibility is to ensure that its Employees, Joint Venture Members, Contractors, Providers, Suppliers and/or their employees meet the eligibility requirements as established by AAGVCSS Project.</p>
Currency of Quotation	Financial quotation shall be quoted in SDG
Only one Bid	<p>The Bidder (including the Lead Entity on behalf of the individual members of any Joint Venture, Consortium or Association) shall submit only one Bid, either in its own name or, if a joint venture, Consortium or Association, as the lead entity of such Joint Venture, Consortium or Association.</p> <p>Bids submitted by two (2) or more Bidders shall all be rejected if they are found to have any of the following:</p> <ol style="list-style-type: none">a) they have at least one controlling partner, director or shareholder in common; orb) any one of them receive or have received any direct or indirect subsidy from the other/s; orc) they have the same legal representative for purposes of this RQ; or





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	<p>d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about, or influence on the Bid of, another Bidder regarding this RQ process;</p> <p>e) they are subcontractors to each other's Bid, or a subcontractor to one Bid also submits another Bid under its name as lead Bidder; or</p> <p>f) Some key personnel proposed to be in the team of one Bidder participates in more than one Bid received for this RQ process. This condition relating to the personnel, does not apply to subcontractors being included in more than one Bid.</p>
Duties and Taxes	<p>AAGVCSS Project is exempt from all direct taxes, except charges for public utility services, and is exempt from customs restrictions, duties, and charges of a similar nature in respect of articles imported for its official use.</p> <p>All quotations shall be submitted with prices NOT be inclusive of VAT 17% and other applicable indirect taxes should be clearly stated in goods Sub-total.</p> <p>All quotations shall be submitted with prices NOT be inclusive of Custom and other applicable indirect taxes should be clearly stated in service Sub-total.</p>
Language of Quotation	<p>English</p> <p>Including documentation including catalogues, instructions and operating manuals.</p>
Documents to be Submitted	<p>Bidders shall include the following documents in their quotation:</p> <p>Annex 2: Quotation Submission Form duly completed and signed</p> <p>Annex 3: Technical and Financial Bids duly completed and signed and in accordance with the Schedule of Requirements in Annex 1</p> <p>Company Profile.</p> <p>Registration Certificate.</p>
Quotation Validity Period	<p>Quotations shall remain valid for 30 days from the deadline for the Submission of Quotation.</p>
Price Variation	<p>No price variation due to escalation, inflation, fluctuation in exchange rates, or any other market factors shall be accepted at any time during the validity of the quotation after the quotation has been received.</p>
Partial Quotes	<p>NOT Permitted</p>
Payment Terms	<p>100% within 30 days after receipt of goods/services and submission of payment documentations as the payment schedule in the awarded contract.</p>
Conditions for Release of Payment	<p>Passing inspection made by AAGVCSS.</p> <p>Passing all testing made by AAGVCSS.</p> <p>Acceptance of Goods based on full compliance with RQ requirements</p>
Payment Method	<p>Payment will be Bank Transfer/Cheque in SDG</p>
Contact Person for Correspondence, Notifications and Clarifications	<p>E-mail address: The Project National Coordinator e. mail faizagas@gmail.com, with Cc. the Procurement & Admin Manager siraj.shareef@gmail.com any delay in AAGVCSS's response shall be not used as a reason for extending the deadline for submission, unless AAGVCSS determines that such an extension is necessary and communicates a new deadline to the Proposers.</p>





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Clarifications	Requests for clarification from bidders will not be accepted any later than 2 days before the submission deadline. Responses to request for clarification will be communicated directly.
Right not to Accept any Quotation	AAGVCSS Project is NOT bound to accept any quotation, nor award a contract.
Right to vary Requirement at Time of award	At the time of award of Contract, AAGVCSS Project reserves the right to vary (increase or decrease) the quantity of goods/services, by up to a maximum of Twenty-five percent (25%) of the total requirements, without any change in the unit price or other terms and conditions.
Type of Contract to be Awarded	Short-term Contract
Policies and Procedures	This RQ is conducted in accordance with AFD Procurement Guidelines to the Procurement Rules on Financed Contracts.
Bidder Declaration	Bidder should officially declare for their all submissions that fully comply with the RFP requirements.
Performance Security	Bidder should officially submit for all document those are will secure their implementation include Bank Guarantee.
Financial Audit (if)	Bidder should officially submit for all document those are will state their previous projects implementation.
Pre-Award Contract Meeting	The bidder shall conduct the project for Pre-Award Contract Meeting for developing a road map for contract design and award.
Request for Qualification	The consultant should submit their CVs states their qualifications, experiences and other competencies and their expression of interest that reflecting briefly how they are going to conduct the study.
Submission forms	Forms for the submission of the technical and financial proposals (Submission letter, technical proposal should consist of goods, line specs and quantities, schedules of implementation plan and timeframe for delivery. Schedule of prices/cost in SDG must be provided in the financial proposal.
Conditions of Contract	This usually comprises the general conditions, specific conditions and the contract agreement which shall later be supplemented by various sections of the selected Proposal in order to constitute the final contract.
Environmental, Social, Health and Safety (ESHS) Responsibility, and Security	In order to promote sustainable development, AFD/AAGVCSS seeks to ensure that internationally recognized ESHS standards are complied with and the bidder undertakes that Applicants, Bidders and Consultants in AFD-financed contracts shall commit themselves to: <ul style="list-style-type: none">Comply with and ensure that all their subcontractors comply with international ESHS standards, consistent with applicable law and regulations in the country of implementation of the contract, including the fundamental conventions of the International Labor Organization (ILO) and international environmental treaties; and





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	<ul style="list-style-type: none">Implement any ESHS risk mitigation measures, when defined in the Environmental and Social Commitment Plan annexed to the Financing Agreement, and the environmental and social management plan.
Statement of Integrity	The bidder shall comply with the AFD procurement rules by duly signing the statement of integrity when the contract is being awarded.

SECTION 3 BID DATA SHEET

The following data for the services to be procured shall complement, supplement, or amend the provisions in the Request for Proposals. In the case of a conflict between the Instructions to Bidders, the Data Sheet, and other annexes or references attached to the Data Sheet, the provisions in the Data Sheet shall prevail.

BDS No.	Data	Specific Instructions / Requirements
1.	Method of Solicitation	National Procurement Competition
2.	Advertising Websites	website http://www.sudanbid.com
3.	Language of the Proposal	English
4.	Deadline for Submission Proposals	22 Dec. 2022 from the publishing of the RQ
5.	Place where bid shall be submitted	<u>Bid submission address for hard copies separated envelopes:</u> Forest National Corporation - AAGVCS Project, Khartoum Office, Sudan Khartoum, Katrina Street, FNC Building 2nd Floor.
6.	Submitting Proposals for Parts or Sub-parts of the RQ (Partial Bids)	Not Allowed





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7.	Pre-bid Conference	<p>Time: Date: Click here to enter date and time. Meeting Via Zoom</p> <p><u>Please organize with us to join the meeting</u></p> <p>Please confirm your participation in the Pre-bid meeting by sending email to: faizasgas@gmail.com CC to: siraj.shareef@gmail.com</p>
8.	Proposal Validity Period	One Month upon proposals submission
9.	Advanced Payment upon Signing of the Contract	Allowed up to a maximum of 10 % of contract value or whichever is less but against the bank guarantee issued in favor of AAGVCSS in equivalent amount or more.
10.	Currency of Proposal	SDG
11.	Deadline for Submitting Requests for Clarifications	2 days after the issuance of the RQ
12.	Contact Details for Submitting Clarifications/Questions	<p>Contact Persons in AAGVCSS: faizasgas@gmail.com National Project Coordinator - AAGVCSS - FNC/AFD-EU 0918218866</p> <p>Siraje M. Sharif, 0912660401 Procurement & Admin. Manager, AAGVCSS -FNC/AFD-EU. E-mail address: siraj.shareef@gmail.com</p> <p>Any delay in AAGVCSS's response shall be not used as a reason for extending the deadline for submission, unless AAGVCSS determines that such an extension is necessary and communicates a new deadline to the Proposers</p>
13.	Instructions on specifications	The AAGVCSS is seeking for an original equipment regardless the brand just to be equivalent the Specs and here it reserves the right to reject any customization shown in proposal or delivery.





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14.	Manner of Disseminating Supplemental Information to the RQ and responses or clarifications to Bidders queries	Once uploaded, prospective bidder (i.e., bidder that have accepted the Bid Invitation) will be notified via email that changes have occurred. It is the responsibility of the bidder to view the respective changes and clarifications.
15.	Deadline for Submission Proposals	Please submit up to 22 Dec, 2022, PLEASE NOTE: 1. Try to submit your bid a day prior or well before the closing time. 2. Do not wait until last minute. If you face any issue submitting your bid at the last minute, AAGVCSS may not be able to assist you.
16.	Allowable Manner of Submitting Proposals	Hard copies separated envelopes to project office and soft copies standard format passworded financial proposal.
17.	Electronic Submission Requirements	<ul style="list-style-type: none">• Format: PDF files (Preferred)• File names must be maximum 60 characters long and must not contain any letter or special character other than from Latin alphabet/keyboard.• Financial Proposal must be protected.• All files must be free of viruses and not corrupted.• If you are uploading a large number of files (ex. 15 or more), please zip the files into a ZIP folder and upload the folder instead of each file individually. Please note that <u>your technical and financial proposals must be uploaded in two separate PDF files and financial proposal should be password protected. Do not provide the financial proposal encryption password unless AAGVCSS asks you to do by an email from above emails.</u> <u>DO NOT DISCLOSE YOUR PRICE IN THE LINE ITEMS. THE FINANCIAL PROPOSAL AS ENCRYPTED FILE AS EXPLAINED ABOVE.</u>
18.	AAGVCSS will award the contract to:	One Proposer Only



SECTION 4: SCHEDULE OF REQUIREMENTS

ACACIA Arabic Gum Value Chain in Sudan Support – Khartoum2 intends to procure the assessment technology associated equipment to facilitate the implementation on field activities.

- (4) Four Monitoring Drone Camera (see specs).
- (1) Training Drone Camera (see specs).
- Delivery Service to AAGVCSS Office in KRT include custom services.
- Standard After-sale Services.

Equipment Specifications:

(4 Units) Drone One MONITORING DRONE CAMERA SPECS.	
AIRCRAFT	
Takeoff Weight	1391 g
Diagonal Distance	350 mm
Max Service Ceiling Above Sea Level	19685 ft (6000 m)
Max Ascent Speed	6 m/s (automatic flight); 5 m/s (manual control)
Max Descent Speed	3 m/s
Max Speed	31 mph (50 kph) (P-mode) 36 mph (58 kph) (A-mode)
Max Flight Time	Approx. 30 minutes
Operating Temperature Range	32° to 104° F (0° to 40°C)
Operating Frequency	2.400 GHz to 2.483 GHz (Europe, Japan, Korea) 5.725 GHz to 5.850 GHz (United States, China)
Transmission Power (EIRP)	2.4 GHz CE (Europe) / MIC (Japan) / KCC (Korea) : < 20 dBm 5.8 GHz SRRC (China) / FCC (United States) / NCC (Taiwan, China) : < 26 dBm
Hover Accuracy Range	RTK enabled and functioning properly : Vertical : ± 0,1 horizontal : ± 0.1 m





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	<p>RTK disabled</p> <p>Vertical : ± 0.1 with vision positioning) ; ± 0.5 with GNSS positioning)</p> <p>Horizontal : ± 0.3 with vision positioning) ; ± 1.5 with GNSS positioning)</p>
Image Position Offset	<p>The position of the camera center is relative to the phase center of the onboard RTK antenna under the aircraft body's axis:(36, 0, and 192 mm) already applied to the image coordinates in Exif data. The positive x, y, and z axes of the aircraft body point to the forward, rightward, and downward of the aircraft, respectively.</p>
CAMERA	
Sensor	Effective pixels: 20 M
Lens	FOV 84° ; 8.8 mm / 24 mm (35 mm format equivalent:24 mm ; f/2.8 - f/11, auto focus at 1 m - ∞)
ISO Range	<p>Video:100-3200(Auto) 100-6400(Manual) ;</p> <p>Photo:100-3200 (Auto) 100-12800 (Manual)</p>
Mechanical Shutter Speed	8 - 1/2000 s
Electronic Shutter Speed	8 - 1/8000 s
Max Image Size	4864×3648 (4:3) ; 5472×3648 (3:2)
Video Recording Modes	H.264, 4K : 3840×2160 30p
Photo Format	JPEG
Video Format	MOV
Supported File Systems	FAT32 (≤ 32 GB) ; exFAT (> 32 GB)
Supported SD Cards	MicroSD, Max Capacity: 128 GB, Class 10 or UHS-1 rating required Write speed:15 MB/s
Operating Temperature Range	32° to 104° F (0° to 40°C)





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GNSS/DRONE SPECS

Single-Frequency, High-Sensitivity GNSS Module	GPS+BeiDou+Galileo (Asia) ; GPS+GLONASS+Galileo (other regions)
Multi-Frequency Multi-System High-Precision RTK GNSS	Frequency Used : GPS : L1/L2 ; GLONASS : L1/L2 ; BeiDou : B1/B2 ; Galileo : E1/E5a First-Fixed Time : < 50 s Positioning Accuracy: Vertical 1.5 cm + 1 ppm (RMS) ; Horizontal 1 cm + 1 ppm (RMS) 1 ppm means the error has a 1mm increase for every 1 km of movement from the aircraft.

REMOTE CONTROLLER

Operating Frequency	2.400 GHz-2.483 GHz 5.725 GHz-5.850 GHz
Transmission Power (EIRP)	2.4 GHz CE / MIC / KCC : < 20 dBm 5.8 GHz SRRC / FCC : < 26 dBm
Max Transmission Distance	FCC : 4.3 mi (7 km) ; SRRC / CE / MIC / KCC : 3.1 mi (5 km) (Unobstructed, free of interference)
Power Consumption	16 W (typical value)
Display	5.5-inch screen, 1920×1080, 1000 cd/m ² , Android System Memory 4G RAM+16G ROM
Operating Temperature Range	32° to 104° F (0° to 40





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RTK GNSS RECIEVER	
GNSS Frequency	Simultaneously receive : GPS: L1 C/A, L2, L5 BEIDOU: B1, B2, B3 GLONASS: F1, F2 Galileo: E1, E5A, E5B
Positioning Accuracy	Single Point Horizontal : 1.5 m(RMS) Vertical : 3.0 m(RMS) RTK Horizontal : 1 cm+ 1 ppm (RMS) Vertical : 2 cm+ 1 ppm (RMS) 1 ppm: For every 1 km increase in distance, the accuracy will be 1 mm less. For example, the horizontal accuracy is 1.1 cm when the receiving end is 1 km away from the base station.
Positioning Update Rate	1 Hz, 2 Hz, 5 Hz, 10 Hz and 20 Hz
Cold Start	< 45 s
Hot Start	< 10 s
Recapture Time	< 1 s
Initialization Reliability	> 99.9%
Differential Data Format	RTCM 2.X/3.X
IMU Features	Built-in high-precision 6-axis accelerometer RTK movement monitoring Sloping measurements Electronic bubble level
Dimensions (RTK body with extension rod)	168 mm×168 mm×1708 mm
IP Rating	IP65

COMMUNICATION





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Data Link	OcuSync, Wi-Fi, LAN, 4G
Operating Frequency	2.400 GHz to 2.483 GHz (China, United States, Australia, Europe, Japan, Korea) 5.725 GHz to 5.850 GHz (China, United States, Australia)
Communication Distance	Operating Mode 1 SRRC/NCC/FCC/MIC/KCC/CE: 2 km (Unobstructed and free of interference, when the RTK Mobile Station is used as a base station and the distance from the RTK antenna to the bottom of the tripod is 1.8 m, when the difference in height between the remote controller and RTK is less than 2 m, and when the remote controller is 1.2 m from ground level) Operating Mode 4 Between the aircraft and mobile station: NCC/FCC: 7 km; SRRC/MIC/KCC/CE: 5 km Between the remote controller and mobile station: 200 m (Unobstructed and free of interference at a flying altitude of about 120 m, when the distance from the RTK antenna to the bottom of the tripod is 1.8 m, and when the remote controller is 1.2 m from ground level) Operating Mode 5 NCC/FCC: 12 km; SRRC/MIC/KCC/CE: 6 km (Unobstructed and free of interference, when the distance from the RTK antenna to the bottom of the tripod is 1.8 m)
Original Intelligent Light Battery (at least 4 batteries)	





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Drone Two

(2 Units) DRONE SPACIFICATIONS

Air craft

Weight (Battery & Propellers Included)	Not more than 1375 g
Diagonal Size (Propellers Excluded)	Around 350 mm
Max Ascent Speed	Around 350 mm
Max Descent Speed (same as following)	S-mode: 6 m/s P-mode: 5 m/s
Max Descent Speed (same as following)	S-mode: 4 m/s P-mode: 3 m/s
Max Speed	S-mode: 45 mph (72 kph) A-mode: 36 mph (58 kph) P-mode: 31 mph (50 kph)
Max Tilt Angle	S-mode: 42° A-mode: 35° P-mode: 25°
Max Angular Speed	S-mode: 250°/s A-mode: 150°/s
Max Service Ceiling Above Sea Level	19685 ft (6000 m)
Max Wind Speed Resistance	10 m/s
Max Flight Time	Approx. 30 minutes
Operating Temperature Range	32° to 104°F (0° to 40°C)
Hover Accuracy Range	Vertical: ±0.1 m (with Vision Positioning) ±0.5 m (with GPS Positioning) Horizontal: ±0.3 m (with Vision Positioning) ±1.5 m (with GPS Positioning)





مشروع دعم سلسلة القيمة للصمغ العربي
ACACIA ARABIC GUM VALUE CHAIN IN SUDAN SUPPORT

Stabilization	3-axis (pitch, roll, yaw)
Controllable Range	Pitch: -90° to +30°
Max Controllable Angular Speed	Pitch: 90°/s
Angular Vibration Range	±0.02°
Vision System	
Vision System	Forward Vision System Backward Vision System Downward Vision System
Velocity Range	≤31 mph (50 kph) at 6.6 ft (2 m) above ground
Altitude Range	0-33 ft (0-10 m)
Operating Range	0-33 ft (0-10 m)
Obstacle Sensory Range	2-98 ft (0.7-30 m)
FOV	Forward: 60° (Horizontal), ±27° (Vertical) Backward: 60° (Horizontal), ±27° (Vertical) Downward: 70° (Front and Rear), 50° (Left and Right)
Measuring Frequency	Forward: 10 Hz Backward: 10 Hz Downward: 20 Hz
Operating Environment	Surface with clear pattern and adequate lighting (lux>15)
Infrared Sensing System	
Obstacle Sensory Range	0.6-23 feet (0.2-7 m)
FOV	70° (Horizontal), ±10° (Vertical)
Measuring Frequency	10 Hz
Operating Environment	Surface with diffuse reflection material, and reflectivity > 8% (such as wall, trees, humans, etc.)
Camera	





مشروع دعم سلسلة القيمة للصمغ العربي
ACACIA ARABIC GUM VALUE CHAIN IN SUDAN SUPPORT

Remote Controller (with its original controller)

Operating Frequency	2.400-2.483 GHz and 5.725-5.850 GHz
Max Transmission Distance	2.400-2.483 GHz, 5.725-5.850 GHz (Unobstructed, free of interference) FCC: 10000 m CE: 6000 m SRRC: 6000 m MIC: 6000 m
Operating Temperature Range	32° to 104°F (0° to 40°C)
Battery	6000 mAh LiPo 2S
Transmitter Power (EIRP)	2.400-2.483 GHz FCC: 26 dBm CE: 20 dBm SRRC: 20 dBm MIC: 17 dBm 5.725-5.850 GHz FCC: 26 dBm CE: 14 dBm SRRC: 20 dBm MIC: -
Operating Current/Voltage	1.2 A@7.4 V
Video Output Port	GL300K: HDMI GL300L: USB
Mobile Device Holder	GL300K: Built-in display device (5.5-inch screen, 1920×1080, 1000 cd/m2, Android system, 4 GB RAM + 16 GB ROM) GL300L: Tablets and smart phones

Charger





مشروع دعم سلسلة القيمة للصمغ العربي
ACACIA ARABIC GUM VALUE CHAIN IN SUDAN SUPPORT

Voltage	17.4 V
Rated Power	100 W
Intelligent light Battery (at least 4 batteries)	
Capacity	5870 mAh
Voltage	15.2 V
Battery Type	LiPo 4S
Energy	89.2 Wh
Net Weight	468 g
Charging Temperature Range	41° to 104°F (5° to 40°C)
Max Charging Power	160 W



SECTION 5: EVALUATION CRITERIA

The bidder must have both as such qualified and experienced for the contract to be procured, AFD/AAGVCSS determine clearly that such provision shall not jeopardize compliance with the international good practices, the project will consider the technically compliant bid and low evaluated prices.

The successful vendor must have a minimum of seven years previous experience in the area of vending type of requirements and shall provide for at least two names (optional more) of professional organization or project or a similar considered as loyal client or has long-term contract.

Evaluation of bids is made of the following steps:

- Preliminary Examination
- Minimum Eligibility and Qualifications
- Evaluation of Technical Proposals
- Evaluation of Financial Proposals

General Considerations to the Evaluation Process

- Full compliance with all requirements as specified in the RQ.
- Full acceptance of the general terms and conditions to award a contract.
- Full offering of comprehensiveness after-sales services.
- Earliest Delivery/shortest lead time proposed to deliver requirements.
- Full passing on inspection and testing where shall be made by the project.

