

Specific Procurement Notice
Request for Quotations (Goods)
Purchase of Hydrological Equipment

Country: Republic of Moldova

Name of Project: Strengthening Moldova's Disaster Risk Management and Resilience Project

Contract Title: Purchase of Hydrological Equipment

Loan No.: 9720-MD

RFQ Reference No.: MD-OEAPM-537695-GO-RFQ

1. The *Republic of Moldova* has received financing from the World Bank toward the cost of the ***Strengthening Moldova's Disaster Risk Management and Resilience Project***, and intends to apply part of the proceeds toward payments under the contracts for ***Purchase of hydrological equipment***.
2. The ***State Hydrometeorological Service***, through the Office for External Assistance Programs Management (OEAPM) / Project Implementation Unit (PIU), now invites Quotations for supply of hydrological equipment as follows:
 1. ***Equipment for flow measurements at depths bigger than 10 m – 1 unit***
 2. ***Equipment for flow measurements up to a depth of 7 m – 3 units***
3. The procurement will be conducted through the Request for Quotations (RFQ) procedure under the national market approach, as specified in the World Bank's "Procurement Regulations for IPF Borrowers" ***dated September 2023*** ("Procurement Regulations"), and is open to all eligible Suppliers as defined in the Procurement Regulations.
4. The RFQ in *English language* may be obtained by interested Suppliers free of charge upon the submission of a written application to the address below. The document will be sent by e-mail.
5. Your price quotation in the form attached in PDF format shall be submitted electronically to the following email: achizitii.proiecte@ogpae.gov.md before ***17:30 local time of March 09, 2026***.
6. The address referred to above is:

Attn: **Raisa CANTEMIR**

Director

PI Office for External Assistance Programs Management (OEAPM) / Project Implementation Unit (PIU)

57/1 Mitropolit Banulescu Bodoni str., office 306, MD-2005.

Chisinau, Republic of Moldova

Tel: 373 22 802 832, 23 82 48

E-mail: achizitii.proiecte@ogpae.gov.md

Website: www.ogpae.gov.md

Strengthening Moldova's Disaster Risk Management and Resilience Project

Request for Quotations (RFQ)

MD-OEAPM-537695-GO-RFQ

Purchase of hydrological equipment

Selection Method – Request for Quotations (RFQ)

Date: *February 23, 2026*

Project Title: **Strengthening Moldova's Disaster Risk Management and Resilience Project**

Project ID No. **P504278**

Source of Funding: Loan No. **9720-MD**

Ref. number: **MD-OEAPM-537695-GO-RFQ**

To: **Potential Suppliers**

Dear Supplier(s),

1. You are invited to submit your price quotation(s) for the supply of the following equipment:

No.	Item	Quantity
1.	Equipment for flow measurements at depths bigger than 10 m	1 unit
2.	Equipment for flow measurements up to a depth of 7 m	3 units

Information on minimum technical specifications and quantities required are set out in Annex 1.

2. *Quotations will be evaluated as a single package covering all items included in the RFQ. Suppliers must quote for all the items under this invitation. Price quotations will be evaluated for all items together, and a single contract will be awarded to the firm offering the lowest evaluated total price. **Incomplete or partial Quotations will not be considered. Alternative quotations/options are not allowed.***

3. Your price quotation in the form attached in PDF format shall be submitted electronically. Your price quotation shall be submitted by e-mail to the following email: achizitii.proiecte@ogpae.gov.md.

4. The deadline for receipt of your quotation (s) at the electronic address indicated above is: **March 09, 2026, 17:30 local time.** *Late quotations will be rejected.*

5. Your quotation that consists of *Form of Quotation; Terms and Conditions of Supply, and Proposed Technical Specifications* shall be submitted in *English language*, and should be accompanied by:

- General information about the Supplier (*copy of registration certificate, etc.*);
- Documentary evidence proving that the Supplier is *an official distributor* of hydrometeorological equipment with at least 3 years of proven experience;

- Documentary evidence proving the *possession of authorized service centers* for warranty and post-warranty technical support located in close proximity to the Republic of Moldova. Evidence must specify *the names and addresses of the service providers for each item quoted*.
 - Documentary evidence proving *the possession of all necessary licenses and certifications* for the sale and maintenance of the equipment;
 - Documentary evidence proving *that the manufacturer complies with World Meteorological Organization (WMO) standards*. The proposed equipment must comply with national and international technical and environmental standards as well;
 - Adequate technical documentation and catalogue(s) and other material or pertinent information for each item quoted *(if relevant)*;
 - Any other evidence that the Supplier deems necessary to demonstrate compliance with the requirements.
6. Procurement of the required goods and services is carried out in accordance with the ***Request for Quotations (RFQ)*** as specified in the World Bank’s “Procurement Regulations for IPF Borrowers” dated September 2023 (“Procurement Regulations”).
7. Your quotation(s) shall be submitted as per the following instructions and in accordance with the attached Contract. *The attached Terms and Conditions of Supply form an integral part of the Contract.*
- (i) **PRICES:** The prices shall be quoted for delivery **DDP Chisinau** (*134 Grenoble str., MD-2072, mun. Chişinău, Republic of Moldova, State Hydrometeorological Service* for imported goods, per INCOTERMS, 2020. *Prices can be quoted in any Bank member country currency, but no more than three currencies.*
 - (ii) **EVALUATION OF QUOTATIONS:** Quotation determined to be substantially responsive to the technical specifications will be evaluated by comparison of the total price, **excluding local taxes**, at destination as per para above, converting to *Moldavan Leu* based on the selling exchange rate offered by the National Bank of Moldova (as published by the bank on <http://www.bnm.md>) on the date specified in Paragraph 4 of this RFQ.

In evaluating the quotations, the Purchaser will determine for each quotation the evaluated price by adjusting the price quotation by making any correction for any arithmetical errors as follows:

(a) where there is a discrepancy between amounts in figures and in words, the amount in words will govern;
(b) where there is a discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.
(c) If a Supplier refuses to accept the correction, its quotation will be rejected.
 - (iii) **AWARD OF CONTRACT:** The award will be made to the Supplier offering the lowest evaluated substantially responsive quotation that meets the required technical specifications. The successful Supplier will sign a Contract as per attached form of contract and terms and conditions of supply.
 - (iv) **VALIDITY OF THE OFFER:** Your quotation(s) shall be valid for a period of **60 (sixty) days** from the deadline for receipt of quotation(s) indicated in Paragraph 4 of this Request for Quotation.

8. Further information can be obtained in writing during office hours from *08:30 to 17:30 hours (Chisinau time)* from:

Office for External Assistance Programs Management (OEAPM) / Project Implementation Unit (PIU)

57/1 Mitropolitul Banulescu Bodoni str., office 306, MD-2005, Chisinau, Republic of Moldova

Tel: 373 22 802 832, 23 82 48

E-mail: achizitii.proiecte@ogpae.gov.md

Website: www.ogpae.gov.md

9. Inspections and Audits

- 9.1 The Supplier shall carry out all instructions of the Purchaser which comply with the applicable laws where the destination is located.
- 9.2 The Supplier shall permit, and shall cause its Subcontractors and consultants to permit, the Bank and/or persons appointed by the Bank to inspect the Supplier's offices and all accounts and records relating to the performance of the Contract and the submission of the bid, and to have such accounts and records audited by auditors appointed by the Bank if requested by the Bank. The Supplier's and its Subcontractors and consultants' attention is drawn to **Clause 6. Fraud and Corruption of the Form of Contract**, which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures).
- 10 A prospective Supplier requiring any clarification of the Invitation to Quote shall contact the Purchaser in writing at the Purchaser's address specified in the Paragraph 8. The Purchaser will respond in writing to any request for clarification, provided that such request is received no later **than four (4) calendar days prior to the deadline for receiving of quotes**.
- 11 Please confirm by e-mail the receipt of this invitation and whether you will submit the price quotation(s).

Sincerely,

Raisa CANTEMIR

Director

Public Institution Office for External Assistance Programs Management (OEAPM) / Project Implementation Unit (PIU)

FORM OF CONTRACT NO. MD-OEAPM-537695-GO-RFQ

THIS AGREEMENT number MD-OEAPM-537695-GO-RFQ made on **March** ____, **2026**, between

- (1) **State Hydrometeorological Service**, fiscal code 1006601003980, having its principal place of business at 134 Grenoble str., MD-2072, mun. Chişinău, Republic of Moldova, represented by **Mr. Mihail GRIGORAŞ, Interim Deputy Director** (hereinafter called “the Purchaser”) on the one part, and

- (2) _____ incorporated under the laws of the Republic of Moldova and having its principal place of business at _____, represented by _____ (hereinafter called “the Supplier”) on the other part, and

- (3) **Public Institution Office for External Assistance Programs Management (OEAPM) / Project Implementation Unit (PIU)**, fiscal code 1008601000433, a public entity incorporated under the laws of the Republic of Moldova and having its principal place of business at 57/1 Mitropolitul Banulescu Bodoni str., office 304, MD-2005, Chisinau, Republic of Moldova, represented by **Ms. Raisa CANTEMIR, Director** (hereinafter called “the Payer”):

WHEREAS the Purchaser has invited quotation for *Purchase of hydrological equipment* within *Strengthening Moldova’s Disaster Risk Management and Resilience Project* to be supplied by Supplier, viz. *Contract ref. no. MD-OEAPM-537695-GO-RFQ*, (hereinafter called “Contract”) and has accepted the Quotation by the Supplier for the supply of goods under Contract at the sum of _____ (_____) hereinafter called “the Contract Price”.

NOW THIS AGREEMENT WITNESSETHES as follows:

1. The following documents shall be deemed to form and be read and construed as part of this agreement, viz:
 - a) *Form of Quotation; Terms and Conditions of Supply, Technical Specifications;*
 - b) *Addendum (if applicable).*
2. Considering payments to be made by the Payer to the Supplier as hereinafter mentioned, the Supplier hereby concludes an Agreement with the Purchaser and with the Payer to execute and complete the supply of Contract and remedy any defects therein in conformity with the provisions of Contract.
3. The Payer, in common with the Purchaser, hereby covenants to pay in consideration of the goods supply and acceptance of Contract and remedying of defects therein, the Contract Price in accordance with Payment Conditions prescribed by Contract.
4. This Agreement is concluded for a period of **120 calendar days** from the Date of signing of the Contract that is _____, 2026.

5. Termination

5.1 Termination for Default

- (a) The Purchaser, in coordination and agreement with OEAPM PIU, the Payer, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:
 - (i) if the Supplier fails to deliver any or all the Goods within the period specified in the Contract, or within any extension thereof granted.

- (ii) if the Supplier fails to perform any other obligation under the Contract; or
 - (iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in **Clause 6** below, in competing for or in executing the Contract.
- (b) In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services like those undelivered or not performed and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

5.2 Termination for Insolvency

- (a) The Purchaser, in coordination and agreement with the OEAPM PIU, may at any time terminate the Contract by giving notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, if such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser.

5.3 Termination for Convenience

- (a) The Purchaser, in coordination and agreement with the OEAPM PIU, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- (b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect, in common agreement with the Payer:
- (i) to have any portion completed and delivered at the Contract terms and prices; and/or
 - (ii) to cancel the remainder and pay to the Supplier an agreed amount for partially delivered Goods and completed Related Services and for materials and parts previously procured by the Supplier.

6. Fraud and Corruption

If the Purchaser, in coordination and agreement with the OEAPM PIU, determines that the Supplier and/or any of its personnel, or its agents, or its Subcontractors, consultants, service providers, suppliers and/or their employees has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices (as defined in the prevailing Bank's sanctions procedures), in competing for or in executing the Contract, then the Purchaser may, after giving 14 days notice to the Supplier, terminate the Supplier's employment under the Contract and cancel the contract, and the provisions of Clause 5 shall apply as if such expulsion had been made under **Sub-Clause 5.1**.

7. Inspections and Audits

- 7.1 The Supplier shall carry out all instructions of the Purchaser, coordinated and agreed with the OEAPM PIU, which comply with the applicable laws where the destination is located.
- 7.2 The Supplier shall permit, and shall cause its Subcontractors and consultants to permit the Purchaser, OEAPM PIU, the Bank and/or persons appointed by the Bank to inspect the Supplier's offices and all accounts and records relating to the performance of the Contract and

the submission of the bid, and to have such accounts and records audited by auditors appointed by the Bank if requested by the Bank. The Supplier's and its Subcontractors and consultants' attention is drawn to **Clause 6. Fraud and Corruption**, which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures).

Signature of the Purchaser:
FOR AND ON BEHALF OF

Signature of the Supplier:
FOR AND ON BEHALF OF

Mihail GRIGORAŞ

Name of Authorized Representative

Supplier Bank account details:

Signature of the Payer:
FOR AND ON BEHALF OF

Raisa CANTEMIR

OEAPM PIU Bank account details:

FORM OF QUOTATION

_____ (Date)

To: **Public Institution Office for External Assistance Programs Management / Project Implementation Unit (PIU)**

57/1 Mitropolitul Banulescu Bodonu str., office 306, MD-2005, Chisinau, Republic of Moldova, Tel:
+373 22 802 832, 373 23 82 48

We offer to execute **Purchase of hydrological equipment** within the **Strengthening Moldova's Disaster Risk Management and Resilience Project**, *contract no.: MD-OEAPM-537695-GO-RFQ*, in accordance with the Conditions of Contract accompanying this Quotation for the Contract Price of _____ (amount in words and numbers) (_____) (name of currency). We propose to complete the delivery and installation of Goods described in the Contract within a period of _____ **calendar days** from the effective Date of the Contract.

This Quotation and your written acceptance will constitute a binding Contract between us. We understand that you are not bound to accept the lowest or any Quotation you receive.

We hereby confirm that this Quotation complies with the Validity of the Quotation required by the proposal documents.

Authorized Signature: _____
Name and Title of Signatory _____

Name of Supplier: _____
Address: _____

Phone Number _____

Fax Number, if any _____

Terms and Conditions of Supply

Project Name: MD-OEAPM-537695-GO-RFQ

- ✓ **Purchaser: State Hydrometeorological Service: 134 Grenoble str., MD-2072, mun. Chişinău, Republic of Moldova**

1. Prices and Schedules for Supply

The description of the requested equipment is attached to the Terms and Conditions of Delivery.

#	Item	Quantity	Unit Price, DDP Chisinau without VAT	Local taxes VAT, etc. for one unit	Total Price, DDP Chisinau	Delivery Time, days from contract signing
1	2	3	4	5	⁶ 3*(4+5)	7
1.	Equipment for flow measurements at depths bigger than 10 m	1				
2.	Equipment for flow measurements up to a depth of 7 m	3				
Total						

Notes:

- In case of discrepancy between unit price and Total derived from unit price, unit price shall prevail. If a Supplier refuses to accept the correction, its quotation will be rejected;
 - The total price of the hydrological equipment must include training costs as required in the Annex 1. Technical Specifications.
2. Fixed Price: The prices indicated above are firm and fixed and not subject to any adjustment during contract performance.
 3. Delivery Schedule: The delivery shall be completed as per the above schedule but not exceeding **90 (ninety) calendar days** from contract signing. The Purchaser shall be responsible for receiving the equipment and verifying its compliance with the specified technical requirements. *The Act of Delivery-Receipt of Goods will be signed between Purchaser and Supplier.* The equipment will be stored in the Supplier's safety and guard premises under Supplier's responsibilities up to the moment when the equipment is to be delivered to Purchaser offices.
 4. Insurance: Not applicable.
 5. Applicable Law: The Contract shall be interpreted in accordance with the laws of the Republic of Moldova.
 6. Resolution of Disputes: The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute between them under or in connection with the Contract. In the case of a dispute between the Purchaser and the Supplier, the dispute shall be settled in accordance with the country procedures.

7. Delivery and Documents: The Supplier shall send the following documents to the Purchaser:
- (i) copies of the Supplier's invoice showing goods' description, quantity, unit price, and total amount;
 - (ii) copies of the packing list identifying contents of each package;
 - (iii) manufacturer's or supplier's warranty certificate;
 - (iv) certificate of origin of goods;
 - (v) Act of Delivery-Receipt of goods.
8. Payment of the invoices will be made as follows: payment will be made 100% upon acceptance of the goods, within thirty (30) days after the date of the signed Act of Delivery-Receipt of Goods by Purchaser, for the respective delivery. The payments under the territory of Moldova (with local Suppliers) will be made in Moldovan Lei, equivalent by converting respective foreign currency amount using official exchange rate foreign currency/Moldovan Lei at the day of payment, as furnished by the National Bank of Moldova. For contracts entered by foreign Suppliers the payment will be made in the currency quoted by the Supplier in its quotation.
9. Warranty: Goods offered should be covered *for at least* _____ *months* from the date of delivery to the Purchaser (Please add (address of the company for warranty services, name of the company, period, schedule, etc.).
10. Packaging and Marking Instructions: The Supplier shall provide standard packing of the Goods as required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The Supplier shall bear all risks in respect of delivery of Goods until its acceptance at final destination.
11. Defects: All defects will be corrected by the Supplier without any cost to the Purchaser within **15 (fifteen) days** from the date of notice by Purchaser.
12. Force-Majeure: The supplier shall not be liable for penalties or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force-Majeure.
- For purposes of this clause, "Force-Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but not restricted to, act of Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- If a Force-Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by Force-Majeure event.
13. Failure to Perform: The Purchaser, coordinated and agreed with the OEAPM PIU, may cancel the Contract if the Supplier fails to deliver the Goods, in accordance with the above terms and conditions, in spite of a 10 (ten) day notice given by the Purchaser, without incurring any liability to the Supplier.
14. Delays: If the Supplier fails to deliver any or all of the goods by the date of delivery or perform the Related Services within the period specified in the Contract (as provided by Delivery schedule

above), the Purchaser, in coordination with the Payer, may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage of 0.2% of the delivered price of the delayed goods or unperformed services for each day or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage of ten (10)% of the contract price.

15. If the Purchaser, through the Payer, fails to pay for the goods in 30 (*thirty*) days after delivery of equipment a sum equivalent to the percentage of 0.1% for each day of the price of goods or services will be paid to the Supplier, up to a maximum addition of the percentage of ten (10) % of the contract price.

16. Required Technical Specifications

A. **Technical Specifications**

BACKGROUND:

The Strengthening Moldova's Disaster Risk Management and Resilience Project's Development Objective is to enhance the capacity of the Government of Moldova to respond and prepare for disaster and climate-related shocks, and in case of an eligible crisis or emergency, respond promptly and effectively to it.

The hydrological equipment will be used to determine the speed of the current, calculate the flow rate in rivers, streams and canals of different depths. It will also be involved in applications such as: operational hydrometry, hydrological monitoring, emergency interventions (floods), research.

1. Equipment for flow measurements at depths bigger than 10 m - 1 pc.
2. Equipment for flow measurements up to a depth of 7 m - 3 pcs.

This equipment will be used by the State Hydrometeorological Service to ensure uninterrupted collection of coherent and operational data, as well as to make more accurate measurements for the development of forecasts and warnings in the event of natural disasters.

GENERAL REQUIREMENTS

The Supplier(s) must be established on the local market or be represented by an agent in the country, be an official dealer (or representative, or reseller) of at least one of the manufacturers, have its own authorized maintenance service.

All goods and materials to be incorporated in the goods must be **NEW (NOT OLDER, THAN 1 YEAR FROM DATE OF DELIVERY)**, not refurbished, unused and of the most recent and current models, incorporating all recent improvements in design and materials, unless otherwise provided for in these specifications.

The hydrological equipment (*equipment for flow measurements at depths greater than 10 meters and equipment for flow measurements up to a depth of 7 meters*) supplied should be suitable to work under Moldovan conditions.

The Supplier shall be responsible for remedying any defects resulting from product non-conformity, if the products do not meet the requirements, or have been damaged during transportation until receipt by the Purchaser.

Based on the beneficiary needs, the following equipment is to be procured under a single contract.

Suppliers shall indicate the name of the manufacturer and the proposed model as well as complete information on the proposed specifications. Suppliers must complete the mandatory cells as well as indicate the required information for each item/equipment proposed.

Technical Specifications

Item 1. Equipment for flow measurements at depths more than 10 m - 1 pc.

Compound	Minimum Technical Specifications Required	Proposed Technical Specifications
<p>Remotely controlled boat</p>	<p><u>REMOTE-GUIDED BOAT</u></p> <p>The vessel must be designed as an integrated hydrographic platform, equipped with a professional device for measuring water speed and depth, such as the Acoustic Doppler Current Profiler (ADCP).</p> <p>The sensor must be structurally integrated into a specialized compartment (sensor well) located in the lower part of the hull, designed to minimize turbulence and provide protection for the equipment. The system must be optimized for use in inland waters with varying depths, from shallow waters (0.3 m) to navigable streams with depths of 30 m and more.</p>	
<p>sensors (Depth measurement, speed, flow calculation, water temperature measurement and bottom tracking)</p>	<p><u>1. Minimum requirements for the ADCP sensor:</u></p> <ul style="list-style-type: none"> • Measurement technology : Four-beam acoustic Doppler in convex configuration; • Profiling range : 0.3 m – 30m and more; • Measurable speed range : minimum 0.02 m/s - maximum 20 m/s; • Speed measurement resolution : 1 mm/s; • Measurement accuracy : $\pm 0.25\%$ of water velocity relative to ADCP, with a maximum deviation of ± 2 mm/; • Number of vertical cells (bins) : adjustable between 1 and 300; • Exclusion distance (blanking distance) : max. 0.05 m from the sensor; • Sampling rate (data output rate) : 1- 5Hz (configurable); 	

2. Depth measurement :

The system must include a depth measurement function through the same ADCP sensor, without requiring an additional sonar, as follows:

- **Measuring range** : 0.3 – 30 m (optionally more);
- **Accuracy** : $\pm 1\%$ of the measured value ± 1 cm;
- **Resolution** : 1 mm/s;

Depth is determined directly by the ADCP, without additional sonar.

3. Flow calculation :

- The equipment will be delivered with software capable of calculating the flow rate in real time based on the vertical velocity profile, depth and position, integrating automatic QA /QC **modules** for data validation according to international standards, both during collection and in post-processing.

4. Bottom tracking:

To ensure accurate determination of the vessel's displacement relative to the water bottom, the ADCP system must be equipped with an integrated bottom tracking function, independent of water flow, as follows:

- **Bottom speed range** : 1-10 m/s;
- **Maximum tracking depth** : 30m (optional over 30 m);
- **Bottom positioning accuracy** : $\pm 0.25\%$ of speed, ± 2 mm/s;

5. ADCP should also measure water temperature:

Operating temperature: between -1°C to $+50^{\circ}\text{C}$;

accuracy: no more than $\pm 0.5^{\circ}\text{C}$, resolution $\pm 0.01^{\circ}\text{C}$;

6. Mandatory functions:

- Automatic integration of the flow section based on collected data

	<p>(numerical profile modeling)</p> <ul style="list-style-type: none"> • Automatic compensation for missing speed cells • Display of total flow and speed distribution per section • Estimation of measurement errors. • Data integration with GPS via RS-232 connection (optional RS-485), positioning accuracy max-0.5 m 	
Software	<ul style="list-style-type: none"> - Real-time flow calculation, the system being provided with quality assurance (QA/QC) procedures both in the data collection stage and in the post-processing phase, to ensure compliance with organizational standards in force. - Licensed software (lifetime license) for processing, visualization, data recording , analysis of velocity and flow measurements and their processing. - Graphical interface for controlling the measuring instrument (sensor) and viewing measurements in real time. - Automatic calculation of water flow based on velocity and depth profiles. - Edge correction and data quality control functionalities. - Compatibility with Windows operating systems. - Supports real-time measurements, velocity profiles, total water flow calculation. 	
Physical and mechanical characteristics	<ul style="list-style-type: none"> - <u>MEASURING EQUIPMENT DIMENSION LIMITS:</u> <ul style="list-style-type: none"> • The boat (USV): must fit between the sizes: length 180(±2) cm , width 90(±2) cm. • Draft : max. 20 cm . • Powered by 2 motors with plastic propellers protected from floating objects in the water, with operating voltage at 24V DC; • Typical survey speed (1.5-2.0 m/s), maximum speed – 4.5-5.0 m/s - Complete unmanned hydrographic vessel (USV) system; - ABS float housing, stainless steel eyelet attachment points for anchoring/towing; - Robust, stable construction, resistant to accidental splashes and immersion, resistant to UV radiation, moisture, corrosion and mechanical shock; - Autonomous and semi-autonomous navigation capability; - Integration with professional hydrological measurement equipment; - Housing: made of ABS, with stainless steel elements, fixing points with stainless steel eyelets for anchoring/towing; 	

	<ul style="list-style-type: none"> - Watertight buoyancy system; - Total equipment weight maximum 30 kg; 	
Power and Communication	<p><u>Power supply:</u></p> <ul style="list-style-type: none"> • The power supply should be with 3 24V DC batteries; • Working autonomy 3-4h; • Operating voltage: max. 24VDC; • Power supply to all measurement and propulsion sensors occurs from a single supply; • Battery level and operating status indicator with possibility of indication on the remote control; <p><u>Communication:</u></p> <ul style="list-style-type: none"> • Bluetooth wireless transmission system with USB or radio connection, with real-time data transmission, with a minimum range of 1000-1500 m in line of sight; • Hitec navigation remote control with integrated telemetry; • Laptop compatible interface (included); • Navigation frequency 1-5GHz (FHSS); • Radio control up to 6 channels; • Data transmission via Omni Directional antenna; • Data transfer speed from 1000 to 200000 bps ; 	
Environmental conditions	<ul style="list-style-type: none"> • Operating temperature: -5°C to +50°C. • Storage temperature: -30°C to +50°C. • IP66 protection or higher. • Operation in flowing waters with currents greater than 2 m/s. 	
Additional features	<ul style="list-style-type: none"> - Training staff in the use of equipment; - Provision of a laptop for field activities, for data collection, visualization and processing (being compatible with the Software). - Additional set of batteries with portable 220-230V charger; - Protective box for the Remote Control, during field trips; - Set of antennas for data transmission and guidance; - Set of spare propellers for; - Waterproof cover for the boat; - User manual; - Factory ADCP sensor calibration certificate (optional); - 36-month warranty on the entire operating system; 	

Delivery and commissioning	<ul style="list-style-type: none"> - System delivered fully functional with all accessories; - The system must be delivered new, unused, in original packaging; - The manufacturer must comply with WMO standards; - Delivery time: 90 days from signing the contract; 	
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Item 2. Equipment for flow measurements up to a depth of 7 m - 3 pcs.

Compound	Minimum Technical Specifications Required	Proposed Technical Specifications
Measurement Principle	<ul style="list-style-type: none"> -Technology: Three-dimensional Acoustic Doppler Profiling with min 4 acoustic beams (ADCP). -Acoustic frequency: minimum 2 MHz. -Acoustic beam angle: min 20°. -Water velocity measurement range: minimum 0.02m/s - maximum 5 m/s. -Accuracy: ±1% of surface velocity compared to ADCP, with absolute error not exceeding 2 mm/s. -Resolution: minimum 1 mm/s. -Speed profile measurement range: between 0.1 m – 7.0 m. -Number of measuring cells: between 1 and 30 cells. -Measurement cell size: between 1 cm – 20 cm. -Data acquisition frequency: 1 -2 Hz. -Blanking distance : maximum 3 cm. -Transducer head diameter: between 3–4 cm <p>moving-boat mode (pulled from the bridge or boat)</p>	
sensor (Depth measurement, speed, flow calculation and bottom tracking)	<ul style="list-style-type: none"> -Depth measurement range: 0.1 – 7 m. -Depth measurement accuracy: maximum 1% of actual depth. -Bottom tracking: active, with accuracy of ±1% of the bottom velocity, with resolution of 1 mm/s; - The equipment will be delivered with software capable of calculating the flow rate in real time based on the vertical velocity profile, depth and position, integrating automatic QA/QC modules for data validation according to international standards , both during collection and in post-processing. - Water temperature measurement: <ul style="list-style-type: none"> • ADCP operating temperature: between -5°C to +50°C; • Accuracy: no more than ±0.5 °C, resolution ± 0.01 °C; 	
Power and Communication	<ul style="list-style-type: none"> - <u>Power supply:</u> <ul style="list-style-type: none"> • AA / alkaline batteries or rechargeable battery. • Operating voltage: between 10.5 – 18 VDC. 	

	<ul style="list-style-type: none"> • Operating time: between 10 h with alkaline batteries, or 12–21 h with rechargeable battery. • Battery level and operating status indicator <p><u>- Communication:</u></p> <ul style="list-style-type: none"> • Bluetooth wireless transmission system with USB connection, with real-time data transmission, with a minimum range of 200 m in line of sight. • Laptop compatible interface (included). • Data transfer speed from 9000 to 200000 bps . 	
Software	<ul style="list-style-type: none"> - Licensed software (lifetime license) for processing, visualization, data recording and analysis of velocity and flow measurements using mobile ADCP systems. - Automatic QA/QC verification during measurement and data post-processing ; - Graphical interface for instrument control and real-time visualization. - Automatic calculation of flow rate based on velocity and depth profiles; - Edge correction and data quality control functionalities ; - Compatibility with Windows operating systems ; - Supports real-time measurements, speed profiles, total flow calculation; 	
Physical and mechanical characteristics	<p><u>- Measurement equipment size limits:</u></p> <ul style="list-style-type: none"> • Trimaran float: must fit between the sizes 400×700×150 mm; • Electronic component: 150×200×100 mm; • Transducer: with a diameter not exceeding 40 mm and a length of 150 mm; <ul style="list-style-type: none"> - Flotation system: trimaran, stable, resistant to accidental splashing and sinking. - Trimaran hull: molded polyurethane, with stainless steel elements. - High speed float option (up to 5 m/s) - Easy to transport floating platform made of UV-resistant material. - Total equipment weight (with float) under 10 kg. - Tow bar included for manual operation. - Robust housing, resistant to shocks, moisture and field conditions. - Includes stable float for operation in water currents. 	
Environmental conditions	<ul style="list-style-type: none"> - Operating temperature: -5°C to +50°C. - Storage temperature: -20°C to +50°C. - Resistance to moisture, dust and moderate shocks 	
Additional features	<ul style="list-style-type: none"> - Provision of a laptop for field activities, for data collection, visualization and processing (being compatible with the Software). - Rigid field carrying bag. - Set of rechargeable batteries and charger (if battery-powered). - User manual. - Carrying bag. - Complete set of batteries. 	

	<ul style="list-style-type: none"> - User manual in English or Romanian. - Factory ADCP sensor calibration certificate. - 36-month warranty on the entire operating system. 	
Delivery and commissioning	<ul style="list-style-type: none"> - System delivered fully functional with all accessories. - The system must be delivered new, unused, in original packaging. - The manufacturer must comply with WMO standards. - Delivery time: 90 days from signing the contract. 	

Supplier requirements:

1. Must be an official distributor of hydrometeorological equipment, with at least 3 years of proven experience.
2. To have service centers for providing warranty and post-warranty technical assistance located as close as possible to the Republic of Moldova.
3. Must hold the necessary licenses and certifications for the sale and maintenance of equipment.
4. The equipment must comply with national and international technical and environmental standards.
5. To respect the delivery deadlines established in the contract and to have the ability to deliver in a timely manner, in accordance with the stipulated requirements.

Registration and delivery conditions:

1. Delivery within 90 days from the signing of the purchase contract.
2. Delivery and quantitative/qualitative reception of the equipment will be made at the buyer's premises in the Republic of Moldova, in accordance with the terms of the offer, accompanied by a report of receipt of the goods with/without defects.
3. The Supplier will provide all necessary documents for the delivery of the equipment, including warranty certificates, user and maintenance manuals and any other relevant documents.

Warranty conditions:

1. Warranty: 36 months, from the moment of signing the handover deed - receipt of the equipment in accordance with the buyer's requirements.
2. The equipment must be new, unused and free of defects at the time of delivery.

Performance Parameters

Supplier confirms compliance with above specifications {**In case of deviations Supplier to list all such deviations**}.

NAME OF SUPPLIER _____

Authorized Signature _____

Place:

Date: