

REQUEST FOR QUOTATION (RFQ)

Companies	Date: 17 September 2019
	Reference: RFQ/053/19 Supply of a specialized early warning
	complex for the republican, regional and facility levels, considering
	the availability of computers of the customer, as well as for
	commissioning and personnel training

Dear Sir / Madam:

We kindly request you to submit your quotation for Supply of a specialized early warning complex for the republican, regional and facility levels, considering the availability of computers of the customer, as well as for commissioning and personnel training, as detailed in Annex 1 of this RFQ. When preparing your quotation, please be guided by the form attached hereto as Annex 2.

Quotations may be submitted on or before 18.00 (GMT 5+), October 03, 2019 and via e-mail, or courier mail to the address below:

United Nations Development Programme

4, Taras Shevchenko Street, Tashkent city, 100029, Republic of Uzbekistan **Procurement Unit**

Electronic version of your quotation must be sent to bids.uz@undp.org1.

Quotations submitted by email must be limited to a maximum of 10 MB, virus-free and no more than 2 email transmissions. They must be free from any form of virus or corrupted contents, or the quotations shall be rejected.

The following must be on the subject of email with your quotation to be sent to bids.uz@undp.org:

RFQ/053/19 Supply of a specialized early warning complex for the republican, regional and facility levels, considering the availability of computers of the customer, as well as for commissioning and personnel training²

It shall remain your responsibility to ensure that your quotation will reach the address above on or before the deadline. Quotations that are received by UNDP after the deadline indicated above, for whatever reason, shall not be considered for evaluation. If you are submitting your quotation by email, kindly ensure that they are signed and in the .pdf format, and free from any virus or corrupted files.

Please take note of the following requirements and conditions pertaining to the supply of the abovementioned good/service:

¹ Quotations submitted to other email accounts will not be accepted and will be declined

² Email submission that will not contain this subject or without reference to subject tender will not be opened and will be declined

Delivery Terms	☑ CIP Tashkent, Uzbekistan (with further delivery and installation in		
[INCOTERMS 2010]	Tashkent and Karakalpakstan)		
Customs clearance, if needed, shall be done by:	☑ UNDP		
Exact Address of Delivery and Installation Locations	 Delivery and installation locations are based in the following regions of the Republic of Karakalpakstan: 1 center of specialized early warning at the republican level in Tashkent. 3 centers of specialized early warnings at the regional level in Tashkent (1) and Nukus (2). 10 centers of specialized early warnings at the facility level, located on the territory of the Republic of Karakalpakstan in Kegeyli (2), Muinak (2), Takhtakupyr (2), Kanlykul (2) and Chimbay (2) areas. 		
Distribution of shipping documents	For International suppliers, the cargo shall arrive to Nukus city, Karakalpak Republic of Uzbekistan for the name of UNDP CO in Uzbekistan. Goods are supposed to be exported to the end-user with waybill (2 originals), invoice (2 originals) and packing list (2 originals), with other quality confirmation documents if required. In addition, all documents under INCOTERMS 2010.		
Latest Expected Delivery Date and Time	☑ 120 calendar days from the issuance of the Purchase Order (PO)		
Delivery and Installation Schedule	⊠ Required		
Mode of Transport	☐ LAND ☐ Other		
Preferred	☑ United States Dollars to foreign suppliers;		
Currency of Quotation	☑ Local Currency: Uzbekistan So'm (UZS) to Uzbekistan based Suppliers		
Value Added Tax on Price Quotation			
After-sales services required	 ☑ Warranty on Parts and Labor for minimum period of 12 months ☑ Provision of a Service when pulled out for maintenance/ repair within 12 months 		
Deadline for the Submission of Quotation	3 October 2019, Tashkent time 18:00 (GMT +5)		
All documentations, including catalogs, instructions and operating manuals, shall be	 ☑ English and/or ☑ Russian 		
in this language	Bids and supporting documents in other than English or Russian languages must have translated into above either language version.		

List of mandatory documents to be submitted by Offeror's together with their Quotations by the deadline set above	1267/1989 list, UN Procurement Division list or other UN Ineligibility List
List of documents to be requested by UNDP additionally from the three lowest priced bid Offerors ⁵	 ☑ Written Self-Declaration of not being included in the UN Security Council 1267/1989 list, UN Procurement Division list or other UN Ineligibility List ☑ (a) Verified by third party (tax agency or other authorized body) copy of Financial Reports for the last two years OR (b) a bank statement from Offeror's bank, issued not less than 30 days
	prior the bid submission or quotation date, that Offeror has available or has access to liquid assets (asset that can be readily converted to cash), to meet the obligations/supply cash flow for the contract of not less than Offeror's bid value.
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	has access to liquid assets (asset that can be readily converted to cash), to meet the obligations/supply cash flow for the contract of not less than Offeror's bid value.
Period of Validity of Quotes starting the Submission Date	☑ 60 calendar days after deadline for submission of quotation In exceptional circumstances, UNDP may request the Vendor to extend the validity of the Quotation beyond what has been initially indicated in this RFQ. The Proposal shall then confirm the extension in writing, without any modification whatsoever on the Quotation.
Partial Quotes	☑ Partial quotes are not allowed.

³ Mandatory for the supply of imported goods

⁴ Verified by the signature of the authorized Offeror's representative and Offeror's company stamp/seal

⁵ Non-provision of any of additionally requested documents provided in this section will serve as a ground for disqualification of the Offer

Payment Terms	To Local Supplier (Company registered in Uzbekistan):		
	☑ 15% advance payment and 85% final payment will be paid in Uzbek		
	Soums (UZS) by bank transfer to the Supplier's account after delivery and		
	acceptance of goods; To Foreign Suppliers (Company registered outside Uzbekistan):		
	☑ 100% payment will be by bank transfer to the Supplier's account after		
	delivery and acceptance of goods. Advance payment up to a maximum of 15% of contract value can be allowed against the Advanced Payment		
	Guarantee from reputable bank. A Bank Guarantee in the full amount of		
	the advance payment should be in the form available at		
	https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_P		
	OPP_DOC		
	UMENT_LIBRARY/Public/PSU_Contract%20Management%20Payment		
	\(\frac{\%20and\%20}{\Taxes \ Advanced\%20Payment\%20Guarantee\%20Form.docx\&action=defau}\)		
	lt.		
	_		
Liquidated Damages	Will be imposed under the following conditions:		
	☑ Penalty will be applied as percentage of contract price per day of delay:		
	0.1%, but up to maximum 20% of total contract value		
	☑ Next course of action: penalty and termination of contract and return		
Evaluation Critoria	of advance payment if applicable		
Evaluation Criteria	☐ Technical responsiveness/Full compliance to requirements and lowest price		
	☑ Strong financial position: (a) Liquidity ratio for the last two years not		
	less than 1 if financial statements are presented		
	OR		
	(b) Confirmation from bank on financial strength of the Offeror as per		
	requirement outlined above		
	☐ Full acceptance of the PO/Contract General Terms and Conditions		
	☐ Comprehensiveness of after-sales services and guarantee		
	☑ At least 2 contracts for supply and installation of early warning complex or similar equipment and software for the last 3 years		
	✓ Demonstrated availability of a permanent office reachable via landline		
	telephone and permanent staff of at least 5 persons		
UNDP will award to:	☑ One supplier.		
	UNDP will not consider offers, which include subcontracting.		
Type of Contract to be Signed	☑ Purchase Order (PO)		
Special conditions of Contract	☑ Cancellation of PO/Contract if amount of penalty for delay in delivery exceeds 20% from total contract value		
Conditions for Release of	☑ Written Acceptance of Goods based on full compliance with RFQ		
Payment	requirements		

Annexes to this RFQ	 ✓ Specifications of the Goods Required (Annex 1) ✓ Form for Submission of Quotation (Annex 2) ✓ General Terms and Conditions / Special Conditions (Annex 3). 		
	Non-acceptance of the terms of the General Terms and Conditions (GTC) shall be grounds for disqualification from this procurement process.		
Contact Person for Inquiries (Written inquiries only)	UNDP CO Uzbekistan, Procurement Unit 4, Taras Shevchenko Street, Tashkent city 100029, Uzbekistan Fax: (+998 78) 1203485 Email: pu.uz@undp.org		
	Any delay in UNDP's response shall be not used as a reason for extending the deadline for submission, unless UNDP determines that such an extension is necessary and communicates a new deadline to the Proposers.		
Post-qualification Actions	 ✓ Verification of accuracy, correctness and authenticity of the information provided by the bidder on the legal, technical and financial documents submitted; ✓ Inquiry and reference checking with Government entities with jurisdiction on the bidder, or any other entity that may have done business with the bidder; ✓ Inquiry and reference checking with other previous clients on the 		
	quality of performance on ongoing or previous contracts completed; Physical inspection of the bidder's plant, factory, branches or other places where business transpires, with or without notice to the bidder;		
Other	Offers submitted by two (2) or more Offerors shall all be rejected if they are found to have <u>any</u> of the following: a) they have at least one controlling partner, director or shareholder in common; or b) any one of them receive or have received any direct or indirect subsidy from the other/s; or c) they have the same legal representative for purposes of this RFQ; 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 e) influence on the Offer of, another Offeror regarding this RFQ process; f) they are subcontractors to each other's Offer, or a subcontractor to one Offer also submits another Proposal under its name as lead Offeror; or g) an expert proposed to be in the team of one Offeror participates in more than one Offer received for this RFQ process. This condition does not apply to subcontractors being included in more than one Offer.		

Goods offered shall be reviewed based on completeness and compliance of the quotation with the minimum specifications described above and any other annexes providing details of UNDP requirements.

The quotation that complies with all of the specifications, requirements and offers the lowest price, as well as all other evaluation criteria indicated, shall be selected. Any offer that does not meet the requirements shall be rejected.

Any discrepancy between the unit price and the total price (obtained by multiplying the unit price and quantity) shall be re-computed by UNDP. The unit price shall prevail and the total price shall be corrected.

If the supplier does not accept the final price based on UNDP's re-computation and correction of errors, its quotation will be rejected.

After UNDP has identified the lowest price offer, UNDP reserves the right to award the contract based only on the prices of the goods in the event that the transportation cost (freight and insurance) is found to be higher than UNDP's own estimated cost if sourced from its own freight forwarder and insurance provider.

At any time during the validity of the quotation, no price variation due to escalation, inflation, fluctuation in exchange rates, or any other market factors shall be accepted by UNDP after it has received the quotation. At the time of award of Contract or Purchase Order, UNDP reserves the right to vary (increase or decrease) the quantity of services and/or goods, by up to a maximum twenty-five per cent (25%) of the total offer, without any change in the unit price or other terms and conditions.

Any Purchase Order that will be issued as a result of this RFQ shall be subject to the General Terms and Conditions attached hereto. The mere act of submission of a quotation implies that the vendor accepts without question the General Terms and Conditions of UNDP herein attached as Annex 3.

UNDP is not bound to accept any quotation, nor award a contract/Purchase Order, nor 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.

Please be advised that UNDP's vendor protest procedure is intended to afford an opportunity to appeal for persons or firms not awarded a purchase order or contract in a competitive procurement process. In the event that you believe you have not been fairly treated, you can find detailed information about vendor protest procedures in the following link: http://www.undp.org/procurement/protest.shtml.

UNDP encourages every prospective Vendor to avoid and prevent conflicts of interest, by disclosing to UNDP 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 RFQ.

UNDP implements a zero tolerance on fraud and other proscribed practices, and is committed to identifying and addressing all such acts and practices against UNDP, as well as third parties involved in UNDP activities. UNDP expects its suppliers to adhere to the UN Supplier Code of Conduct found in this link: http://www.un.org/depts/ptd/pdf/conduct_english.pdf.

Thank you and we look forward to receiving your quotation.

Sincerely yours,

Procurement Unit UNDP in Uzbekistan

Technical Specifications

The requested system will be used for timely reporting of forecasts, warnings, recommendations to subordinate territorial units and officials

TEM #	ITEM DESCRIPTION/SPECIFICATION OF NECESSARY MATERIALS	UNIT OF MEASU RE	Q-TY	LATEST DELEVIRY DAT
1	SEWC at republican level	Set	1	Not more than
	The composition of the SEWC at republican level:			60
	- software SEWC at republican level;			calendar days
	- multifunctional GSM / GPRS modem with the antenna.			from day of signing contra
	The main functions of the SEWC at republican level:			by both partie
	 support of the Russian language interface; 			by both partie
	 availability of data storage under the Data Base Management System (DBMS); 			
	- creation and maintenance of lists of parts heads of departments and			
	divisions to be provided with information;			
	 creating and maintaining alert scripts; 			
	 setting up communication channels for exchange; 			
	 for the republican level: receiving and visualizing information from the Center of Messages Commutation (CMC) of Uzhydromet: weather 			
	forecasts, adverse conditions and storm telegrams warnings, dangerous hydrometeorological phenomena warnings, including low			
	water and drought;			
	- for the republican level: setting regional base limits for the volume of seasonal water consumption with various forecasts of the water			
	availability in the season (low water, medium, high water); - creating and maintaining templates for preparing recommendations			
	and warnings;			
	 development of recommendations for facilities about low levels of productive moisture in the soil and recommendations for irrigation of farmland; 			
	- deliver these recommendations to officials and facilities;			
	- progress display of the notification information;			
	- information channeling through digital communication facilities with			
	the reservation possibility (Ethernet, GSM) and with confirmation of data delivery;			
	 distribution of information to management parts in the form of e-mail messages on mailing lists; 			
	 notification of forecasts and facility officials' warnings on landlines and mobile phones, as well as via SMS messages; 			
	 transfer of arbitrary service messages between users of the notification network; 			
	- file transfer between users of the notification network;		1	
	- the possibility of rapid voice communication with parties via digital			
	communication channels with the recording of negotiations;			
	- maintaining registers received and sent data;			
	- creation of reports on information communication to officials;		1	
	- maintaining a system log of events and operations in the system;		1	
	- assignment of access rights to user categories.			
	The main functions of the notification subsystem to landlines and mobile phones, as well as through SMS messages of a specialized complex of early			

- support for Russian language interface;
- work with 8 communication channels through a managed switching unit in standby mode (separate dedicated lines for notification channels are not required; when working in notification mode, PBX extension subscribers on these lines are temporarily disconnected);
- checking lines for disconnection;
- checking lines for unavailability;
- support for internal subscribers of an institutional wired analog telephone network;
- support for domestic and overseas subscribers of a wired analog telephone network;
- support for mobile subscribers and GMS / GPRS operators;
- notifications on mobile phones, including via SMS-messages with Cyrillic support;
- the ability of software control of the number of telephone messaging channels involved, depending on the tasks;
- integration of subscriber lists with address databases;
- prioritization of auto redial in the lists of subscribers and tasks;
- saving templates for the standard task's creation;
- creating a task sequence according to the priority of execution and the possibility of pausing the task;
- the ability to maintain a database of standard messages;
- the ability to cyclically repeat the notification message for a certain time;
- the possibility of cyclic repetition of the notification message until receiving a confirmation signal of receipt of the notification;
- determination of the fact of notification of a given subscriber by an individual pin code entered by the subscriber in tone mode;
- determination of the fact of notification of a given subscriber by the common pin code entered by the subscriber in tone mode;
- determination of the fact of notification of a given subscriber by recording the response of the subscriber;
- determination of the fact of notification of a given subscriber by picking up the handset;
- presentation of the notification results and signaling of the end of the notification cycle in real-time;
- reporting following the priorities of tasks and lists.

Technical requirements for multifunctional GSM / GPRS modem and antenna:

EQUIPMENT/DEVICE	TECHNICAL REQUIREMENTS	
MULTIFUNCTIONAL GSM/GPRS MODEM		
Supported communication		
standards:		
• GPRS	Yes	
• EDGE	Yes	
• UMTS (3G)	Yes	
• HSPA+ (3G)	Yes	
 IEEE 802.11b/g/n (Wi-Fi) 	Yes	
Processor	MIPS 24KEc 580 Mhz or equivalent	
DRAM	At least 64 Mb	
Flash memory	At least 16 Mb	
Ethernet connector (4 x 10/100	Yes	
Mbits)		
DB9 connector (RS232)	Yes	
Umbilical connector (7 x GPIO, fed,	Yes	

DC 405)		
RS485)	<u> </u>	
SD card driver (MicroSDHC)	Yes	
Wi-Fi 2.4 GHz 802.11 b/g/n 2T2R MAC	Yes	
Two slots for SIM cards	Yes	
Power supply	8÷30 V	
Consumption:	8.30 V	
Under 12V	1000 mA	
Under 24V		
	500 mA -40÷ +60 °C	
Operating temperature	-40++60°C	
GSM/GPRS 3G ANTENNA		
Standards supported and		
frequency:		
GSM	Yes	
Frequency, MHz	880÷960	
GSM-1800, 3G-	Yes	
2100		
Frequency, MHz	1710÷ 2170	
Gain ratio:		
880÷960 MHz	Not less than 8.2	
1710÷ 2170 MHz	Not less than 9.3	
Coefficient of Standing Wave:		
880÷960 MHz	Not more than 2.5(1.8)	
1710÷ 2170 MHz	Not more than 2(1.7)	
Range of directional diagram		
For horizontal	Circular (360 degrees)	
For vertical		
880÷960 MHz	16 degree	
1710÷ 2170 MHz	11 degree	
Diagram irregularity		
880÷960 MHz	±0.7	
1710÷ 2170 MHz	±0.13	
Grounding (DC)	Yes	
Operating temperatures	-40÷+80	
Casing	Dust and water splash proof	
Cabling	RG58	
Connector	SMA(F) SMA(M)	
Cable extension, m	3	
Montage kit	Yes	

2

The composition of the SEWC at regional level:

- software SEWC at regional level;
- multifunctional GSM / GPRS modem with the antenna.

The main functions of the SEWC at regional level:

- support of the Russian language interface;
- availability of data storage under the Data Base Management System
- creation and maintenance of lists of parts heads of departments and divisions to be provided with information;

- creating and maintaining alert scripts;
- setting up communication channels for exchange;
- for the regional level: receiving and visualizing information from the republican level: prognostic, adverse conditions and storm telegrams warnings, dangerous hydrometeorological phenomena warnings, including low water and drought;
- for the regional level: setting basic limits for the volume of water consumption for district facilities for the season with various forecasts of the water availability in the season (low water, medium, high water);
- creating and maintaining templates for preparing recommendations and warnings;
- development of recommendations for facilities about low levels of productive moisture in the soil and recommendations for irrigation of farmland:
- deliver these recommendations to officials and facilities;
- progress display of the notification information;
- information channeling through digital communication facilities with the reservation possibility (Ethernet, GSM) and with confirmation of data delivery;
- distribution of information to management parts in the form of e-mail messages on mailing lists;
- notification of forecasts and facility officials' warnings on landlines and mobile phones, as well as via SMS messages;
- transfer of arbitrary service messages between users of the notification network:
- file transfer between users of the notification network;
- the possibility of rapid voice communication with parties via digital communication channels with the recording of negotiations;
- maintaining registers received and sent data;
- creation of reports on information communication to officials;
- maintaining a system log of events and operations in the system;
- assignment of access rights to user categories.

The main functions of the notification subsystem to landlines and mobile phones, as well as through SMS messages of a specialized complex of early warning at regional level:

- support for Russian language interface;
- work with 8 communication channels through a managed switching unit in standby mode (separate dedicated lines for notification channels are not required; when working in notification mode, PBX extension subscribers on these lines are temporarily disconnected);
- checking lines for disconnection;
- checking lines for unavailability;
- support for internal subscribers of an institutional wired analog telephone network;
- support for domestic and overseas subscribers of a wired analog telephone network;
- support for mobile subscribers and GMS / GPRS operators;
- notifications on mobile phones, including via SMS-messages with Cyrillic support;
- the ability of software control of the number of telephone messaging channels involved, depending on the tasks;
- integration of subscriber lists with address databases;
- prioritization of auto redial in the lists of subscribers and tasks;
- saving templates for the standard task's creation;
- creating a task sequence according to the priority of execution and the possibility of pausing the task;
- the ability to maintain a database of standard messages;

- the ability to cyclically repeat the notification message for a certain time;
- the possibility of cyclic repetition of the notification message until receiving a confirmation signal of receipt of the notification;
- determination of the fact of notification of a given subscriber by an individual pin code entered by the subscriber in tone mode;
- determination of the fact of notification of a given subscriber by the common pin code entered by the subscriber in tone mode;
- determination of the fact of notification of a given subscriber by recording the response of the subscriber;
- determination of the fact of notification of a given subscriber by picking up the handset;
- presentation of the notification results and signaling of the end of the notification cycle in real-time;
- reporting following the priorities of tasks and lists.

Technical requirements for multifunctional GSM / GPRS modem and antenna:

EQUIPMENT/DEVICE	TECHNICAL REQUIREMENTS	
MULTIFUNCTIONAL GSM/GPRS MODEM		
Supported communication		
standards:		
 GPRS 	Yes	
• EDGE	Yes	
 UMTS (3G) 	Yes	
 HSPA+ (3G) 	Yes	
 IEEE 802.11b/g/n (Wi-Fi) 	Yes	
Processor	MIPS 24KEc 580 Mhz or equivalent	
DRAM	At least 64 Mb	
Flash memory	At least 16 Mb	
Ethernet connector (4 x 10/100	Yes	
Mbits)		
DB9 connector (RS232)	Yes	
Umbilical connector (7 x GPIO, fed,	Yes	
RS485)		
SD card driver (MicroSDHC)	Yes	
Wi-Fi 2.4 GHz 802.11 b/g/n 2T2R	Yes	
MAC		
Two slots for SIM cards	Yes	
Power supply	8÷30 V	
Consumption:		
Under 12V	1000 mA	
Under 24V	500 mA	
Operating temperature	-40÷ +60 °C	
GSM/GPRS 3G ANTENNA		
Standards supported and		
frequency:		
GSM	Yes	
Frequency, MHz	880÷960	
GSM-1800, 3G-	Yes	
2100		

1710 : 2170
1710÷ 2170
Not less than 8.2
Not less than 9.3
Not more than 2.5(1.8)
Not more than 2(1.7)
Circular (360 degrees)
16 degree
11 degree
±0.7
±0.13
Yes
-40÷+80
Dust and water splash proof
RG58
SMA(F) SMA(M)
3
Yes

3 SEWC at facility level

The composition of the SEWC facility level:

- software SEWC site level;
- autonomous telecommunications terminal (ATT);
- multifunctional GSM / GPRS modem with the antenna.

The main functions of the specialized facility for the early warning at the facility level:

- support for Russian language interface;
- the availability of data storage under the management of the DBMS;
- creation and maintenance of lists of water users for delivering information;
- setting up communication channels for exchange with relevant regional level complexes;
- creating and maintaining templates for preparing recommendations and warnings;
- preparation of recommendations on the use of farmland;
- receiving and visualizing data from the corresponding complex at the regional level: prognostic information, adverse conditions, and storm telegrams warnings, low productive moisture in the soil warnings, regulation recommendations on irrigation of farmland for water users;
- formation of warnings and recommendations for water users about dangerous hydrometeorological phenomena, low levels of productive moisture in the soil, and regulations for irrigating farmland;
- communicating these recommendations to farmers, dehkans, and households;
- progress display of the notification information;
- exchange management with the complexes of the regional-level responsible for digital communication channels with the possibility of redundancy (Ethernet, GSM) and confirmation of data delivery;
- exchange of arbitrary service messages with district centers;

- the possibility of operational voice communication with district centers through digital communication channels with the recording of negotiations;
- maintaining registers of received and sent data;
- creation of reports on information results
- maintaining a system log of events and operations in the system.

The requirement for technical characteristics of ATT:

Name	Parameter
A central processing unit (CPU)	imx53 or equivalent
CPU clock frequency, not less than	750MHz
RAM amount	At least 1GB
Built-in FLASH Disk Size	At least 8GB
Operation System	Linux-compatible
Display type	Graphic monochrome
Display resolution	256x64 pixels
DC supply voltage, V	1032
Maximum power consumption, W	30
Backup power	Two batteries (LiFePO4) size 18650, 3.6 V 1200 mA (A123)
Minimum operating time from a backup power source, min	20
Number of «ETHERNET» ports	2
Number of «USB» ports	2 in the back panel, 1 in the front panel
Number of «RS232» ports	3
Number of «RS485» ports	1
The mass of the device, without connecting wires, no more, kg	2,5
Degree of protection provided by the housing	IP40
Meantime between failures, at least	80000
Operating temperature range, ° C	From -40 to +60
Maximum humidity,%	95 at 35°C
Atmosphere pressure	(60 – 106) hPa (460-800 mmHg)

Complete set of the Autonomous Telecommunications Terminal (ATT):

Name of component	Quantity
Autonomous Telecommunications Terminal	1
(ATT)	
Keyboard with USB interface	1
Power supply 220B-12B 1A	1
DC Power Cable	1
Ground cable	1
Ethernet cable 3 _M	1
Set of connectors	1
Manual	1

Dagger	1	1
Passport		L
I		

Technical requirements for multifunctional GSM / GPRS modem and antenna:

EQUIPMENT/DEVICE	TECHNICAL REQUIREMENTS
MULTIFUNCTIONAL GSM/GPRS MO	<u> </u>
Supported communication	
standards:	
• GPRS	Yes
• EDGE	Yes
 UMTS (3G) 	Yes
 HSPA+ (3G) 	Yes
 IEEE 802.11b/g/n (Wi-Fi) 	Yes
Processor	MIPS 24KEc 580 Mhz or equivalent
DRAM	At least 64 Mb
Flash memory	At least 16 Mb
Ethernet connector (4 x 10/100	Yes
Mbits)	
DB9 connector (RS232)	Yes
Umbilical connector (7 x GPIO, fed,	Yes
RS485)	
SD card driver (MicroSDHC)	Yes
Wi-Fi 2.4 GHz 802.11 b/g/n 2T2R	Yes
MAC	
Two slots for SIM cards	Yes
Power supply	8÷30 V
Consumption:	1000 4
Under 12V Under 24V	1000 mA 500 mA
Operating temperature	-40÷ +60 °C
operating temperature	-40. 100 C
GSM/GPRS 3G ANTENNA	1
Standards supported and	
frequency:	
GSM	Yes
Frequency, MHz	880÷960
GSM-1800, 3G-	Yes
2100	
Frequency, MHz	1710÷ 2170
Gain ratio:	
880÷960 MHz	Not less than 8.2
1710÷ 2170 MHz	Not less than 9.3
Coefficient of Standing Wave:	
880÷960 MHz	Not more than 2.5(1.8)
1710÷ 2170 MHz	Not more than 2(1.7)
Range of directional diagram	
For horizontal	Circular (360 degrees)
For vertical	
880÷960 MHz	16 degree
	3

Diagram irregularity	
880÷960 MHz	±0.7
1710÷ 2170 MHz	±0.13
Grounding (DC)	Yes
Operating temperatures	-40÷+80
Casing	Dust and water splash proof
Cabling	RG58
Connector	SMA(F) SMA(M)
Cable extension, m	3
Montage kit	Yes

[Enter name of authorized staff]
[Designation]
[Click here to enter a date]

PART 1: FORM FOR SUBMITTING SUPPLIER'S QUOTATION

(This Form must be submitted only using the Supplier's Official Letterhead/Stationery)

We, the undersigned, hereby accept in full the UNDP General Terms and Conditions, and hereby offer to supply the items listed below in conformity with the specification and requirements of UNDP as per RFQ Reference No. $RFQ/053/19^6$.

TABLE 1: Offer to Supply Goods Compliant with Technical Specifications and Requirements

ITEM	ITEM DESCRIPTION/SPECIFICATION OF NECESSARY	UNIT OF	Q-	PRICE IN [CI	_
#	MATERIALS AND SERVICES		TY	(EXCLUSIVE	-
		MEASU RE		Unit Price	Total Price
1	SEWC at republican level	Set	1		FIICE
	The composition of the SEWC at republican level:	Set	1		
	- software SEWC at republican level;				
	- multifunctional GSM / GPRS modem with the antenna.				
	The main functions of the SEWC at republican level:				
	 support of the Russian language interface; 				
	 availability of data storage under the Data Base Management System (DBMS); 				
	- creation and maintenance of lists of parts heads of				
	departments and divisions to be provided with information;				
	 creating and maintaining alert scripts; 				
	 setting up communication channels for exchange; 				
	- for the republican level: receiving and visualizing				
	information from the Center of Messages Commutation				
	(CMC) of Uzhydromet: weather forecasts, adverse				
	conditions and storm telegrams warnings, dangerous				
	hydrometeorological phenomena warnings, including				
	low water and drought;				
	- for the republican level: setting regional base limits for				
	the volume of seasonal water consumption with various				
	forecasts of the water availability in the season (low water, medium, high water);				
	- creating and maintaining templates for preparing				
	recommendations and warnings;				
	- development of recommendations for facilities about				
	low levels of productive moisture in the soil and				
	recommendations for irrigation of farmland;				
	- deliver these recommendations to officials and facilities;				
	 progress display of the notification information; 				
	- information channeling through digital communication				
	facilities with the reservation possibility (Ethernet, GSM)				
	and with confirmation of data delivery;				
	- distribution of information to management parts in the				
	form of e-mail messages on mailing lists;				
	- notification of forecasts and facility officials' warnings on				
	landlines and mobile phones, as well as via SMS				
	messages;				
	- transfer of arbitrary service messages between users of				
	the notification network;				

⁶ Pricing of goods should be consistent with the INCOTERMS indicated in the RFQ

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- file transfer between users of the notification network;
- the possibility of rapid voice communication with parties via digital communication channels with the recording of negotiations;
- maintaining registers received and sent data;
- creation of reports on information communication to officials;
- maintaining a system log of events and operations in the system;
- assignment of access rights to user categories.

The main functions of the notification subsystem to landlines and mobile phones, as well as through SMS messages of a specialized complex of early warning at republican level:

- support for Russian language interface;
- work with 8 communication channels through a managed switching unit in standby mode (separate dedicated lines for notification channels are not required; when working in notification mode, PBX extension subscribers on these lines are temporarily disconnected);
- checking lines for disconnection;
- checking lines for unavailability;
- support for internal subscribers of an institutional wired analog telephone network;
- support for domestic and overseas subscribers of a wired analog telephone network;
- support for mobile subscribers and GMS / GPRS operators;
- notifications on mobile phones, including via SMSmessages with Cyrillic support;
- the ability of software control of the number of telephone messaging channels involved, depending on the tasks:
- integration of subscriber lists with address databases;
- prioritization of auto redial in the lists of subscribers and tasks:
- saving templates for the standard task's creation;
- creating a task sequence according to the priority of execution and the possibility of pausing the task;
- the ability to maintain a database of standard messages;
- the ability to cyclically repeat the notification message for a certain time;
- the possibility of cyclic repetition of the notification message until receiving a confirmation signal of receipt of the notification;
- determination of the fact of notification of a given subscriber by an individual pin code entered by the subscriber in tone mode;
- determination of the fact of notification of a given subscriber by the common pin code entered by the subscriber in tone mode;
- determination of the fact of notification of a given subscriber by recording the response of the subscriber;
- determination of the fact of notification of a given subscriber by picking up the handset;
- presentation of the notification results and signaling of the end of the notification cycle in real-time;
- reporting following the priorities of tasks and lists.

Technical requirements for multifunctional GSM / GPRS modem and antenna: **EQUIPMENT/DEVICE TECHNICAL REQUIREMENTS MULTIFUNCTIONAL GSM/GPRS MODEM** Supported communication standards: Yes **GPRS EDGE** Yes UMTS (3G) Yes HSPA+ (3G) Yes IEEE 802.11b/g/n (Wi-Fi) MIPS 24KEc 580 Mhz or **Processor** equivalent DRAM At least 64 Mb Flash memory At least 16 Mb Ethernet connector (4 x Yes 10/100 Mbits) DB9 connector (RS232) Yes **Umbilical connector (**7 *x* Yes GPIO, fed, RS485) **SD** card driver (MicroSDHC) Yes Wi-Fi 2.4 GHz 802.11 b/g/n Yes 2T2R MAC Two slots for SIM cards Yes 8÷30 V **Power supply** Consumption: Under 12V 1000 mA Under 24V 500 mA -40÷ +60 °C Operating temperature **GSM/GPRS 3G ANTENNA** Standards supported and frequency: **GSM** Yes Frequency, 880÷960 MHz GSM-1800, 3G-2100 Frequency, 1710÷ 2170 MHz Gain ratio: 880÷960 Not less than 8.2 MHz 1710÷ 2170 Not less than 9.3 MHz Coefficient of Standing Wave: 880÷960 Not more than 2.5(1.8)

	MHz					
	1710÷ 2170	Not more than 2(1.7)				
	MHz					
	Range of directional					
	diagram					
	For horizontal	Circular (360 degrees)				
	For vertical	o ca.a. (555 acg. 555)				
	880÷960 MHz	16 degree				
	1710÷ 2170	11 degree				
	MHz	11 degree				
	Diagram irregularity					
	880÷960 MHz	±0.7				
	1710÷ 2170 MHz	±0.13				
	Grounding (DC)	Yes				
	Operating temperatures	-40÷+80				
	Casing	Dust and water splash proof				
	Cabling	RG58				
	Connector	SMA(F) SMA(M)				
	Cable extension, m	3				
	Montage kit	Yes				
	Total Prices of SEWC at repu	ıblican level (1 set)				
2	SEWC at regional level		Set	3		
	The composition of the SEWC a	_				
	- software SEWC at regi					
	- multifunctional GSM /	GPRS modem with the antenna.				
	The main functions of the SEW	Cat regional level				
	The main functions of the SEWC at regional level: - support of the Russian language interface;					
	- availability of data storage under the Data Base		:			
	Management System (DBMS);					
		nance of lists of parts heads of				
	<u> </u>	ivisions to be provided with	1			
	information;					
	- creating and maintaini	ng alert scripts; tion channels for exchange;				
		evel: receiving and visualizing	,			
		ie republican level: prognostic				
		and storm telegrams warnings,				
		eorological phenomena warnings,				
	including low water ar	.				
	_	setting basic limits for the volume				
	of water consumption for district facilities for the season					
	with various forecasts of the water availability in the season (low water, medium, high water);					
	- creating and maintaining templates for preparing		,			
	recommendations and warnings;		•			
	- development of recommendations for facilities about		:			
	low levels of productive moisture in the soil and		1			
	recommendations for irrigation of farmland;					
	- deliver these recommendations to officials and facilities;					
		e notification information;				
	- information channeling through digital communication					
	facilities with the reservation possibility (Ethernet, GSM)		'			4.0
	and with confirmation of data delivery;				<u> </u>	19

- distribution of information to management parts in the form of e-mail messages on mailing lists;
- notification of forecasts and facility officials' warnings on landlines and mobile phones, as well as via SMS messages;
- transfer of arbitrary service messages between users of the notification network;
- file transfer between users of the notification network;
- the possibility of rapid voice communication with parties via digital communication channels with the recording of negotiations;
- maintaining registers received and sent data;
- creation of reports on information communication to officials;
- maintaining a system log of events and operations in the system;
- assignment of access rights to user categories.

The main functions of the notification subsystem to landlines and mobile phones, as well as through SMS messages of a specialized complex of early warning at regional level:

- support for Russian language interface;
- work with 8 communication channels through a managed switching unit in standby mode (separate dedicated lines for notification channels are not required; when working in notification mode, PBX extension subscribers on these lines are temporarily disconnected);
- checking lines for disconnection;
- checking lines for unavailability;
- support for internal subscribers of an institutional wired analog telephone network;
- support for domestic and overseas subscribers of a wired analog telephone network;
- support for mobile subscribers and GMS / GPRS operators;
- notifications on mobile phones, including via SMSmessages with Cyrillic support;
- the ability of software control of the number of telephone messaging channels involved, depending on the tasks;
- integration of subscriber lists with address databases;
- prioritization of auto redial in the lists of subscribers and tasks;
- saving templates for the standard task's creation;
- creating a task sequence according to the priority of execution and the possibility of pausing the task;
- the ability to maintain a database of standard messages;
- the ability to cyclically repeat the notification message for a certain time;
- the possibility of cyclic repetition of the notification message until receiving a confirmation signal of receipt of the notification;
- determination of the fact of notification of a given subscriber by an individual pin code entered by the subscriber in tone mode;
- determination of the fact of notification of a given subscriber by the common pin code entered by the subscriber in tone mode;

- determination of the fact of notification of a given subscriber by recording the response of the subscriber;
- determination of the fact of notification of a given subscriber by picking up the handset;
- presentation of the notification results and signaling of the end of the notification cycle in real-time;
- reporting following the priorities of tasks and lists.

EQUIPMENT/DEVICE	TECHNICAL REQUIREMENTS	
MULTIFUNCTIONAL GSM/GPRS MODEM		
Supported communication		
standards:		
 GPRS 	Yes	
 EDGE 	Yes	
 UMTS (3G) 	Yes	
 HSPA+ (3G) 	Yes	
 IEEE 802.11b/g/n 	Yes	
(Wi-Fi)		
Processor	MIPS 24KEc 580 Mhz or	
	equivalent	
DRAM	64 Mb	
Flash memory	16 Mb	
Ethernet connector (4 x	Yes	
10/100 Mbits)		
DB9 connector (RS232)	Yes	
Umbilical connector (7 x	Yes	
GPIO, fed, RS485)		
SD card driver (MicroSDHC)	Yes	
Wi-Fi 2.4 GHz 802.11 b/g/n	Yes	
2T2R MAC		
Two slots for SIM cards	Yes	
Power supply	8÷30 V	
Consumption:		
Under 12V	1000 mA	
Under 24V	500 mA	
Operating temperature	-40÷ +60 °C	
GSM/GPRS 3G ANTENNA	•	
Standards supported and		
frequency:		
GSM	Yes	
Frequency,	880÷960	
MHz		
GSM-1800,	Yes	
3G-2100		
Frequency,	1710÷ 2170	
MHz		
Gain ratio:		
880÷960	Not less than 8.2	

	MHz					
	1710÷ 2170	Not less than 9.3				
	MHz	1400 1633 (11011 3.3				
	Coefficient of Standing					
	Wave:					
	880÷960	Not more than 2.5(1.8)				
	MHz	,				
	1710÷ 2170	Not more than 2(1.7)				
	MHz	1101 more than 2(1.7)				
	Range of directional					
	diagram					
	For horizontal	Circular (360 degrees)				
	For vertical	, ,				
	880÷960 MHz	16 degree				
	1710÷ 2170	11 degree				
	MHz	11 deg. ee				
	Diagram irregularity					
	880÷960 MHz	±0.7				
	1710÷ 2170	±0.13				
	MHz	20.13				
	Grounding (DC)	Yes				
	Operating temperatures	-40÷+80				
	Casing	Dust and water splash proof				
	Cabling	RG58				
	Connector	SMA(F) SMA(M)				
		3				
	Cable extension, m Montage kit	Yes				
	Total Prices of SEWC at regional level (3 sets)					
		onal level (3 sets)		C - 1	40	
3	SEWC at facility level The composition of the SEWC fa	acility level:		Set	10	
	- software SEWC site lev					
		nunications terminal (ATT);				
		GPRS modem with the antenna.				
	The marin formations of the consti	- li				
	at the facility level:	alized facility for the early warning	B			
	- support for Russian lar	nguage interface:				
	- ·	storage under the management of	f			
	the DBMS;					
	- creation and maintenance of lists of water users for		r			
	delivering information;		ı_			
	 setting up communication channels for exchange with relevant regional level complexes; 		1			
	- creating and maintaining templates for preparing		g			
	recommendations and warnings;					
	- preparation of recommendations on the use of farmland;					
	- receiving and visualizing data from the corresponding					
		nal level: prognostic information				
	adverse conditions, and storm telegrams warnings, low					
	productive moisture in the soil warnings, regulation recommendations on irrigation of farmland for water					
	recommendations on irrigation of farmland for water users;					
	 formation of warnings 					
i	 formation of warnings and recommendations for wat users about dangerous hydrometeorologic 		.i		Ī	

- phenomena, low levels of productive moisture in the soil, and regulations for irrigating farmland;
- communicating these recommendations to farmers, dehkans, and households;
- progress display of the notification information;
- exchange management with the complexes of the regional-level responsible for digital communication channels with the possibility of redundancy (Ethernet, GSM) and confirmation of data delivery;
- exchange of arbitrary service messages with district centers;
- the possibility of operational voice communication with district centers through digital communication channels with the recording of negotiations;
- maintaining registers of received and sent data;
- creation of reports on information results
- maintaining a system log of events and operations in the system.

The requirement for technical characteristics of ATT:

Name	Parameter
A central processing unit (CPU)	imx53 or equivalent
CPU clock frequency, not less than	750MHz
RAM amount	At least 1GB
Built-in FLASH Disk Size	At least 8GB
Operation System	Linux-compatible
Display type	Graphic monochrome
Display resolution	256x64 pixels
DC supply voltage, V	1032
Maximum power consumption, W	30
Backup power	Two batteries (LiFePO4) size 18650, 3.6 V 1200 mA (A123)
Minimum operating time from a backup power source, min	20
Number of «ETHERNET» ports	2
Number of «USB» ports	2 in the back panel, 1 in the front panel
Number of «RS232» ports	3
Number of «RS485» ports	1
The mass of the device, without connecting wires, no more, kg	2,5
Degree of protection provided by the housing	IP40
Meantime between failures, at least	80000
Operating temperature range, ° C	From -40 to +60
Maximum humidity,%	95 at 35°C

Atmosphere pressure	(60 – 106) hPa
	(460-800 mmHg)

Complete set of the Autonomous Telecommunications Terminal (ATT):

Name of component	Quantity
Autonomous Telecommunications Terminal (ATT)	1
Keyboard with USB interface	1
Power supply 220B-12B 1A	1
DC Power Cable	1
Ground cable	1
Ethernet cable 3м	1
Set of connectors	1
Manual	1
Passport	1

Technical requirements for multifunctional GSM / $\ensuremath{\mathsf{GPRS}}$ modem and antenna:

EQUIPMENT/DEVICE	TECHNICAL REQUIREMENTS	
MULTIFUNCTIONAL GSM/GPRS MODEM		
Supported		
communication		
standards:		
 GPRS 	Yes	
• EDGE	Yes	
 UMTS (3G) 	Yes	
 HSPA+ (3G) 	Yes	
• IEEE 802.11b/g/n	Yes	
(Wi-Fi)		
Processor	MIPS 24KEc 580 Mhz or	
	equivalent	
DRAM	At least 64 Mb	
Flash memory	At least 16 Mb	
Ethernet connector (4 x	Yes	
10/100 Mbits)		
DB9 connector (RS232)	Yes	
Umbilical connector (7 x	Yes	
GPIO, fed, RS485)		
SD card driver	Yes	
(MicroSDHC)		
Wi-Fi 2.4 GHz 802.11	Yes	
b/g/n 2T2R MAC		
Two slots for SIM cards	Yes	
Power supply	8÷30 V	
Consumption:		
Under 12V	1000 mA	
Under 24V	500 mA	
Operating temperature	-40÷ +60 °C	

GSM/GPRS 3G ANTENNA			
Standards supported and			
frequency:			
GSM	Yes		
Frequency,	880÷960		
MHz			
GSM-	Yes		
1800, 3G-			
2100			
Frequency,	1710÷ 2170		
MHz			
Gain ratio:			
880÷960	Not less than 8.2		
MHz			
1710÷	Not less than 9.3		
2170 MHz			
Coefficient of Standing		-	
Wave:			
880÷960	Not more than 2.5(1.8)	 	
880 -3 00 MHz	113t more than 2.3(1.0)		
1710÷	Not more than 3/1.7\		
1710÷ 2170 MHz	Not more than 2(1.7)		
Range of directional			
diagram	Circular (200 da sua sa)		
For horizontal	Circular (360 degrees)		
For vertical	46.1		
880÷960	16 degree		
MHz			
1710÷ 2170	11 degree		
MHz			
Diagram irregularity			
880÷960	±0.7		
MHz		_	
1710÷ 2170	±0.13		
MHz		_	
Grounding (DC)	Yes		
Operating temperatures	-40÷+80		
Casing	Dust and water splash proof		
Cabling	RG58		
Connector	SMA(F) SMA(M)		
Cable extension, m	3		
Montage kit	Yes		
otal Prices of SEWC at faci	lity level (10 sets)		
otal Prices of 14 sets	. , ,		
ransportation costs for 14	sets (CIP Tashkent)		
acking, Insurance and oth			
raining costs for 14 sets			
nstallation and commissio	ning costs for 14 sets		
	J J. = . JULU		
ther costs (travel, accomr	nodation and living, etc.)		

Table 2 – Table of technical compliance of the offered goods			
DESCRIPTION: Specialized Early Warning Complex (SEWC) for the Republican, Regional And Facility levels			
Description / Specifications of Goods	Description / Specifications of		
(required by UNDP)	Goods (offered by Supplier) ⁷		
	Please indicate parameters of the offered goods		
	Please indicate for the offered goods:		
	Model:		
	Manufacturer:		
	Country of origin:		
SEWC at republican level			
The composition of the SEWC at republican level:			
- software SEWC at republican level;			
- multifunctional GSM / GPRS modem with the antenna.			
•			
The main functions of the SEWC at republican level:			
 support of the Russian language interface; 			
- availability of data storage under the Data Base			
Management System (DBMS);			
- creation and maintenance of lists of parts heads of			
departments and divisions to be provided with			
information;			
 creating and maintaining alert scripts; 			
 setting up communication channels for exchange; 			
- for the republican level: receiving and visualizing			
information from the Center of Messages			
Commutation (CMC) of Uzhydromet: weather			
forecasts, adverse conditions and storm telegrams			
warnings, dangerous hydrometeorological			
phenomena warnings, including low water and			
drought;			
- for the republican level: setting regional base limits for			
the volume of seasonal water consumption with			
various forecasts of the water availability in the season			
(low water, medium, high water);			
- creating and maintaining templates for preparing			
recommendations and warnings; - development of recommendations for facilities about			
low levels of productive moisture in the soil and			
recommendations for irrigation of farmland;			
- deliver these recommendations to officials and			
facilities;			
 progress display of the notification information; 			
- information channeling through digital communication			
facilities with the reservation possibility (Ethernet,			
GSM) and with confirmation of data delivery;			
- distribution of information to management parts in the			
form of e-mail messages on mailing lists;			
 notification of forecasts and facility officials' warnings 			
on landlines and mobile phones, as well as via SMS			
messages;			

⁷ Please provide description of offered product, model and brand name, that must meet minimum technical specifications provided in Annex 1 above

- transfer of arbitrary service messages between users of the notification network;
- file transfer between users of the notification network;
- the possibility of rapid voice communication with parties via digital communication channels with the recording of negotiations;
- maintaining registers received and sent data;
- creation of reports on information communication to officials;
- maintaining a system log of events and operations in the system;
- assignment of access rights to user categories.

The main functions of the notification subsystem to landlines and mobile phones, as well as through SMS messages of a specialized complex of early warning at republican level:

- support for Russian language interface;
- work with 8 communication channels through a managed switching unit in standby mode (separate dedicated lines for notification channels are not required; when working in notification mode, PBX extension subscribers on these lines are temporarily disconnected);
- checking lines for disconnection;
- checking lines for unavailability;
- support for internal subscribers of an institutional wired analog telephone network;
- support for domestic and overseas subscribers of a wired analog telephone network;
- support for mobile subscribers and GMS / GPRS operators;
- notifications on mobile phones, including via SMSmessages with Cyrillic support;
- the ability of software control of the number of telephone messaging channels involved, depending on the tasks;
- integration of subscriber lists with address databases;
- prioritization of auto redial in the lists of subscribers and tasks;
- saving templates for the standard task's creation;
- creating a task sequence according to the priority of execution and the possibility of pausing the task;
- the ability to maintain a database of standard messages;
- the ability to cyclically repeat the notification message for a certain time;
- the possibility of cyclic repetition of the notification message until receiving a confirmation signal of receipt of the notification;
- determination of the fact of notification of a given subscriber by an individual pin code entered by the subscriber in tone mode;
- determination of the fact of notification of a given subscriber by the common pin code entered by the subscriber in tone mode;
- determination of the fact of notification of a given subscriber by recording the response of the subscriber;
- determination of the fact of notification of a given subscriber by picking up the handset;

- presentation of the notification results and signaling of the end of the notification cycle in real-time; reporting following the priorities of tasks and lists.

Technical requirements for multifunctional GSM / GPRS modem and antenna:

EQUIPMENT/DEVICE	TECHNICAL REQUIREMENTS
MULTIFUNCTIONAL GSM/GP	·
Supported communication	
standards:	
• GPRS	Yes
• EDGE	Yes
• UMTS (3G)	Yes
• HSPA+ (3G)	Yes
• IEEE 802.11b/g/n	Yes
(Wi-Fi)	
Processor	MIPS 24KEc 580 Mhz or
	equivalent
DRAM	At least 64 Mb
Flash memory	At least 16 Mb
Ethernet connector (4 x	Yes
10/100 Mbits)	
DB9 connector (RS232)	Yes
Umbilical connector (7 x	Yes
GPIO, fed, RS485)	
SD card driver (MicroSDHC)	Yes
Wi-Fi 2.4 GHz 802.11 b/g/n	Yes
2T2R MAC	
Two slots for SIM cards	Yes
Power supply	8÷30 V
Consumption:	
Under 12V	1000 mA
Under 24V	500 mA
Operating temperature	-40÷ +60 °C
GSM/GPRS 3G ANTENNA	
Standards supported and	
frequency:	
GSM	Yes
Frequency,	880÷960
MHz	
GSM-1800,	Yes
3G-2100	
Frequency,	1710÷ 2170
MHz	
Gain ratio:	
880÷960	Not less than 8.2
MHz	
1710÷ 2170	Not less than 9.3
MHz	

Coefficient of Standing	
Wave:	
880÷960	Not more than 2.5(1.8)
MHz	
1710÷ 2170	Not more than 2(1.7)
MHz	
Range of directional	
diagram	
For horizontal	Circular (360 degrees)
For vertical	
880÷960 MHz	16 degree
1710÷ 2170	11 degree
MHz	
Diagram irregularity	
880÷960 MHz	±0.7
1710÷ 2170	±0.13
MHz	
Grounding (DC)	Yes
Operating temperatures	-40÷+80
Casing	Dust and water splash proof
Cabling	RG58
Connector	SMA(F) SMA(M)
Cable extension, m	3
Montage kit	Yes

SEWC at regional level

The composition of the SEWC at regional level:

- software SEWC at regional level;
- multifunctional GSM / GPRS modem with the antenna.

The main functions of the SEWC at regional level:

- support of the Russian language interface;
- availability of data storage under the Data Base Management System (DBMS);
- creation and maintenance of lists of parts heads of departments and divisions to be provided with information;
- creating and maintaining alert scripts;
- setting up communication channels for exchange;
- for the regional level: receiving and visualizing information from the republican level: prognostic, adverse conditions and storm telegrams warnings, dangerous hydrometeorological phenomena warnings, including low water and drought;
- for the regional level: setting basic limits for the volume of water consumption for district facilities for the season with various forecasts of the water availability in the season (low water, medium, high water);
- creating and maintaining templates for preparing recommendations and warnings;
- development of recommendations for facilities about low levels of productive moisture in the soil and recommendations for irrigation of farmland;

- deliver these recommendations to officials and facilities;
- progress display of the notification information;
- information channeling through digital communication facilities with the reservation possibility (Ethernet, GSM) and with confirmation of data delivery;
- distribution of information to management parts in the form of e-mail messages on mailing lists;
- notification of forecasts and facility officials' warnings on landlines and mobile phones, as well as via SMS messages;
- transfer of arbitrary service messages between users of the notification network;
- file transfer between users of the notification network;
- the possibility of rapid voice communication with parties via digital communication channels with the recording of negotiations;
- maintaining registers received and sent data;
- creation of reports on information communication to officials;
- maintaining a system log of events and operations in the system;
- assignment of access rights to user categories.

The main functions of the notification subsystem to landlines and mobile phones, as well as through SMS messages of a specialized complex of early warning at regional level:

- support for Russian language interface;
- work with 8 communication channels through a managed switching unit in standby mode (separate dedicated lines for notification channels are not required; when working in notification mode, PBX extension subscribers on these lines are temporarily disconnected);
- checking lines for disconnection;
- checking lines for unavailability;
- support for internal subscribers of an institutional wired analog telephone network;
- support for domestic and overseas subscribers of a wired analog telephone network;
- support for mobile subscribers and GMS / GPRS operators;
- notifications on mobile phones, including via SMSmessages with Cyrillic support;
- the ability of software control of the number of telephone messaging channels involved, depending on the tasks;
- integration of subscriber lists with address databases;
- prioritization of auto redial in the lists of subscribers and tasks;
- saving templates for the standard task's creation;
- creating a task sequence according to the priority of execution and the possibility of pausing the task;
- the ability to maintain a database of standard messages;
- the ability to cyclically repeat the notification message for a certain time;

- the possibility of cyclic repetition of the notification message until receiving a confirmation signal of receipt of the notification;
- determination of the fact of notification of a given subscriber by an individual pin code entered by the subscriber in tone mode;
- determination of the fact of notification of a given subscriber by the common pin code entered by the subscriber in tone mode;
- determination of the fact of notification of a given subscriber by recording the response of the subscriber;
- determination of the fact of notification of a given subscriber by picking up the handset;
- presentation of the notification results and signaling of the end of the notification cycle in real-time;
- reporting following the priorities of tasks and lists.

Technical requirements for multifunctional GSM / GPRS modem and antenna:

EQUIPMENT/DEVICE	TECHNICAL REQUIREMENTS	
MULTIFUNCTIONAL GSM/GP	1	
Supported communication		
standards:		
• GPRS	Yes	
• EDGE	Yes	
• UMTS (3G)	Yes	
 HSPA+ (3G) 	Yes	
• IEEE 802.11b/g/n	Yes	
(Wi-Fi)		
Processor	MIPS 24KEc 580 Mhz or	
	equivalent	
DRAM	At least 64 Mb	
Flash memory	At least 16 Mb	
Ethernet connector (4 x	Yes	
10/100 Mbits)		
DB9 connector (RS232)	Yes	
Umbilical connector (7 x	Yes	
GPIO, fed, RS485)		
SD card driver (MicroSDHC)	Yes	
Wi-Fi 2.4 GHz 802.11 b/g/n	Yes	
2T2R MAC		
Two slots for SIM cards	Yes	
Power supply	8÷30 V	
Consumption:		
Under 12V	1000 mA	
Under 24V	500 mA	
Operating temperature	-40÷ +60 °C	
GSM/GPRS 3G ANTENNA		
Standards supported and		
frequency:		
GSM	Yes	

	000:000
Frequency,	880÷960
MHz	
GSM-1800,	Yes
3G-2100	
Frequency,	1710÷ 2170
MHz	
Gain ratio:	
880÷960	Not less than 8.2
MHz	
1710÷ 2170	Not less than 9.3
MHz	
Coefficient of Standing	
Wave:	
880÷960	Not more than 2.5(1.8)
MHz	, ,
1710÷ 2170	Not more than 2(1.7)
MHz	,
Range of directional	
diagram	
For horizontal	Circular (360 degrees)
For vertical	, ,
880÷960 MHz	16 degree
1710÷ 2170	11 degree
MHz	11 465.66
Diagram irregularity	
880÷960 MHz	±0.7
1710÷ 2170	±0.7 ±0.13
	10.13
MHz	Voc
Grounding (DC)	Yes
Operating temperatures	-40÷+80
Casing	Dust and water splash proof
Cabling	RG58
Connector	SMA(F) SMA(M)
Cable extension, m	3
Montage kit	Yes

SEWC at facility level

The composition of the SEWC facility level:

- software SEWC site level;
- autonomous telecommunications terminal (ATT);
- multifunctional GSM / GPRS modem with the antenna.

The main functions of the specialized facility for the early warning at the facility level:

- support for Russian language interface;
- the availability of data storage under the management of the DBMS;
- creation and maintenance of lists of water users for delivering information;
- setting up communication channels for exchange with relevant regional level complexes;
- creating and maintaining templates for preparing recommendations and warnings;

- preparation of recommendations on the use of farmland;
- receiving and visualizing data from the corresponding complex at the regional level: prognostic information, adverse conditions, and storm telegrams warnings, low productive moisture in the soil warnings, regulation recommendations on irrigation of farmland for water users;
- formation of warnings and recommendations for water users about dangerous hydrometeorological phenomena, low levels of productive moisture in the soil, and regulations for irrigating farmland;
- communicating these recommendations to farmers, dehkans, and households;
- progress display of the notification information;
- exchange management with the complexes of the regional-level responsible for digital communication channels with the possibility of redundancy (Ethernet, GSM) and confirmation of data delivery;
- exchange of arbitrary service messages with district centers;
- the possibility of operational voice communication with district centers through digital communication channels with the recording of negotiations;
- maintaining registers of received and sent data;
- creation of reports on information results
- maintaining a system log of events and operations in the system.

The requirement for technical characteristics of ATT:

Name	Parameter
A central processing unit (CPU)	imx53 or equivalent
CPU clock frequency, not less than	750MHz
RAM amount	At least 1GB
Built-in FLASH Disk Size	At least 8GB
Operation System	Linux-compatible
Display type	Graphic monochrome
Display resolution	256x64 pixels
DC supply voltage, V	1032
Maximum power	30
consumption, W	
Backup power	Two batteries (LiFePO4) size
	18650, 3.6 V 1200 mA (A123)
Minimum operating time	20
from a backup power source, min	
Number of «ETHERNET»	2
ports	
Number of «USB» ports	2 in the back panel,
	1 in the front panel
Number of «RS232» ports	3
Number of «RS485» ports	1

The mass of the device, without connecting wires, no more, kg	2,5
Degree of protection provided by the housing	IP40
Meantime between failures, at least	80000
Operating temperature range, ° C	From -40 to +60
Maximum humidity,%	95 at 35°C
Atmosphere pressure	(60 – 106) hPa (460-800 mmHg)

Complete set of the Autonomous Telecommunications Terminal (ATT):

Name of component	Quantity
Autonomous Telecommunications Terminal (ATT)	1
Keyboard with USB interface	1
Power supply 220B-12B 1A	1
DC Power Cable	1
Ground cable	1
Ethernet cable 3м	1
Set of connectors	1
Manual	1
Passport	1

Technical requirements for multifunctional GSM / GPRS modem and antenna:

EQUIPMENT/DEVICE	TECHNICAL REQUIREMENTS
MULTIFUNCTIONAL GSM/GPRS MODEM	
Supported	
communication	
standards:	
GPRS	Yes
• EDGE	Yes
 UMTS (3G) 	Yes
 HSPA+ (3G) 	Yes
 IEEE 802.11b/g/n 	Yes
(Wi-Fi)	
Processor	MIPS 24KEc 580 Mhz or
	equivalent
DRAM	At least 64 Mb
Flash memory	At least 16 Mb
Ethernet connector (4 x	Yes
10/100 Mbits)	
DB9 connector (RS232)	Yes
Umbilical connector (7 x	Yes
GPIO, fed, RS485)	
SD card driver	Yes

(MicroSDHC)		
Wi-Fi 2.4 GHz 802.11	Yes	
b/g/n 2T2R MAC		
Two slots for SIM cards	Yes	
Power supply	8÷30 V	
Consumption:		
Under 12V	1000 mA	
Under 24V	500 mA	
Operating temperature	-40÷ +60 °C	
GSM/GPRS 3G ANTENNA	I	
Standards supported and		
frequency:		
GSM	Yes	
Frequency,	880÷960	
MHz	Voc	
GSM- 1800, 3G-	Yes	
1800, 3G- 2100		
Frequency,	1710÷ 2170	
MHz	1/10-21/0	
Gain ratio:		
880÷960	Not less than 8.2	
MHz	Not less than 6.2	
1710÷	Not less than 9.3	
2170 MHz		
Coefficient of Standing		
Wave:		
880÷960	Not more than 2.5(1.8)	
MHz		
1710÷	Not more than 2(1.7)	
2170 MHz		
Range of directional		
diagram		
For horizontal	Circular (360 degrees)	
For vertical		
880÷960	16 degree	
MHz		
1710÷ 2170	11 degree	
MHz		
Diagram irregularity		
880÷960	±0.7	
MHz		
1710÷ 2170	±0.13	
MHz		
Grounding (DC)	Yes	
Operating temperatures	-40÷+80	
Casing	Dust and water splash proof	
Cabling	RG58	
Connector	SMA(F) SMA(M)	

TABLE 3: Offer to Comply with Other Conditions and Related Requirements

Other Information pertaining to our Quotation	Your Responses		
are as follows:	Yes, we will comply	No, we cannot comply	If you cannot comply, pls. indicate counter proposal
120 calendar days from the issuance of the			
Purchase Order (PO)			
Warranty and After-Sales Requirements			
a) Minimum one (1) year warranty on both parts and labor			
b) Service Unit to be Provided when the Purchased Unit is Under Repair			
All Provisions of the UNDP General Terms and Conditions			
Other requirements [pls. specify]			

All other information that we have not provided automatically implies our full compliance with the requirements, terms and conditions of the RFQ.

[Name and Signature of the Supplier's Authorized Person] [Designation] [Date]

PART 2: DECLARATION OF INTEREST

Dear Sir/Madam,		
We/I.	(Name and Title), as shareholder(s)/owner(s) of	Company, declare that:

- a) Have no financial and other interests in, association or relationship with, are not employed and do not have relatives (i.e. spouse, parents, children or siblings) employed by the United Nations Development Programme (UNDP) or the Government of Uzbekistan that announced the RFQ; and do not have access to information about, or influence on the selection process for this RFQ
- b) Have no common controlling partner, director, shareholder, legal representative for the purposes of this RFQ with any other entity submitting its Quotation under this RFQ; are not subcontracting or are subcontractors to other entities for the purposes of this RFQ; and that the experts proposed in the team do not participate in more than one Quotation for this RFQ
- c) Are not involved in activities that could have an impact on the objectivity and independence of the Contractor's team in carrying out its duties under the contract or can affect the image of the United Nations and the Government of Uzbekistan.

We certify that the information stated is true, correct and complete to the best of our knowledge and belief. We are obliged to comply with all requests for additional information, documentation, clarification and/or verification concerning the Declaration of Interest statement.

All other information that we have not provided automatically implies our full compliance with the requirements, terms and conditions of the RFQ.

[Name and Signature of the Supplier's Authorized Person] [Designation] [Date]

PART 3: COMPANY PROFILE

1. Offeror's Legal Name [insert Bidder's legal name]					
2. In case of Joint Venture (JV), legal name of each party: [insert legal name of each party in JV]					
3. Actual or intended Country/ies of Registration/Operation: [insert actual or intended Country of Registration]					
4. Year of Registration in its Location: [insert Bidder's year of registration]					
5. Countries of Operation	6. No. of permanent staff in each Country	7. Years of Operation in each Country			
8. Legal Address/es in Country/ies of Registration/Operation ⁸ : [insert Bidder's legal address in country of registration]					
9. Value and Description of Top two (2) Biggest Contracts for the past three (3) years					
10. Latest Credit Rating (Score and Source, if any)					
11. Brief description of litigation history (disputes, arbitration, claims, etc.), indicating current status and outcomes, if already resolved.					
12. Offeror's Authorized Representative Information Name: [insert Authorized Representative's name] Address: [insert Authorized Representative's Address] Telephone/Fax numbers: [insert Authorized Representative's telephone/fax numbers] Email Address: [insert Authorized Representative's email address]					
13. Are you in the UNPD List 1267.1989 or UN Ineligibility List? ☐ YES or ☐ NO					

[Name and Signature of the Supplier's Authorized Person]
[Designation
]
[Date
]

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⁸ You must specify address of permanent office, landline telephone numbers

PART 4: EXPERIENCE IN SIMILAR NATURE*

Name of the good	Delivery period (month,	Amount of the	Client
supplied	year)	contract	(Name, contact person, telephone, email)

^{*} At least 2 contracts for the last 3 years for supply and installment of early warning complex or similar equipment and software are must

[Name and Signature of the Supplier's Authorized Person]
[Designation]
[Date]