

Amendment Nº 1

To Request For Quotation

Date:	September 10, 2020
Regarding:	RFQ/066/20 – INSTALLATION OF SENSORS FOR MONITORING OF WATER RESOURCES IN THE FRAMEWORK OF THE "SMART WATER" SYSTEM OF MWR OF THE REPUBLIC OF UZBEKISTAN»

This Amendment is submitted to RFQ/066/20 announced on August 31, 2020 for installation of sensors for monitoring of water resources in the framework of the "smart water" system of MWR of the Republic of Uzbekistan.

1. The following composition of the device in "Annex 1" of the Technical Specifications should be read in the following edition:

#	Description	Features	O-ty for 1 unit	Total	
	Electronic part of the device				
1	Processor, Atmega1280 type or equivaler	nt/analogue	1	50	
1.1	Memory at least	128K			
1.2	EEPROM (Electrically Erasable programmable Read-Only Memory)	4K			
1.3	SRAM (static random access memory)	8K			
1.4	Frequency	8MHZ			
1.5	Power	2.7V - 5.5V			
1.6	Case TQFP-100 type				
2	Hard disc AT24CM01 type or equivalent/analogue		1	50	
2.1	Memory	1Mb			
2.2	Protocol	I2C			
2.3	Power	1.7V - 5.5V			
2.4	Case SOIC 8-150 mill type				
3	GSM module SIM800L type or equivalent/analogue		1	50	
3.1	Frequency	GSM850, EGSM900			
3.2	Capacity	Class 4(2W)			

Composition of the device

3.3	Power	3.4V - 4.4V		
4	RS485 Driver MAX485 type or equivale	nt/analogue	1	50
4.1	Frequency	2.5Mbps		
4.2	power	4.75V - 5.25V		
4.3	Case SOIC 8 -150mill	÷		
5	RTC (Real-Time Clock) PCF2123TS type or	equivalent/analogue	1	50
5.1	Protocol	I2C		
5.2	Power	1.6V - 5.5V		
5.3	Case TSSOP-14 type			
6	Level convertor SGM4553YN8G type or e	quivalent/analogue	7	350
6.1	Case SOT 23-8 type			
6.2	Power	1.3V-5.5V		
7	Boost convertor FP6296XR type or equiv	alent/analogue	2	100
7.1	Minimum input Power	2.7V		
7.2	Maximum output Kuchlanishi	12V		
7.3	Maximum output current strength	10A		
7.4	Frequency	400Khz		
7.5	Case SOP 8_EP_150mill			
8	Tarnsistor IRF7314 type or equivalent/ar	nalogue	2	100
8.1	Power (MAX)	20V		
8.2	Maximum output current strength	5.3A		
8.3	Internal resistance	58mOhm		
8.4	Case SOIC 8_150mill type			
9	Buck convertor LM2576S-ADJ type or ec	uivalent/analogue	1	50
9.1	Minimum input Power	8V		
9.2	Maxsimum output Power	48V		
9.3	Maximum output current strength	3A		
9.4	Frequency	52Khz		
9.5	Case TO-220 (5) type			
10	Buzzer GSC1625YB type or equivalent/a	analogue	1	50
10.1	Sound power	80dB		
10.2	Power	3V- 25V		
10.3	Case SMD 16 X 16 X2.5mm type			
11	Ultrosonic Sensor uy-us42 type or equi	valent/analogue	1	50
11.1	Power	5V		
11.2	Protocol	I2C		
11.3	Measurement distance	20-800 sm		
12	3G antenna or equivalent/analogue		1	50
12.1	Length	127mm		
12.2	Operating frequency	800-1800Mhz		
13	Bluetooth module HC-05 type or equiva	lent/analogue	1	50
13.1	Power	4V		
13.2	Protocol: universal asynchronous receiver-transmitter UART RS-232			
13.3	Bluethooth module	5,0		

14	Rechargeable battery type GP2700 rechargeable 2700 AAHC 1,2v 2600mAh (service duration not less than 12 months) or equivalent/analogue	12	600	
	Supporting devices			
1	The body of the device - a special shield made of stainless steel (20x20x25)	1	50	
2	Pype D32, m	5	250	
3	Stem and clutch D32, ps.	3	150	
4	Bolt&nut D12, шт.	4	200	

2. The following Table 1 in "Annex 2" of Form For Submitting Supplier's Quotation should be read in the following edition:

#	Description	Q-ty	Price for 1 set	Price for 50 sets
	Electronic part of the device (50 sets)			
1	Processor, Atmega1280 type,memory at least128K, EEPROM c 4K, SRAM with 8K, 8MHZ, voltage 2.7V - 5.5V, case type TQFP- 100 or equivalent/analogue	50		
2	Hard disc AT24CM01 type, 1 MB, I2C, 1.7V - 5.5V, Case SOIC 8-150 mill type or equivalent/analogue	50		
3	GSM module SIM800L type/GSM850, EGSM900/Class 4(2W)/3.4V - 4.4V or equivalent/analogue	50		
4	RS485 Driver MAX485 type/2.5Mbps/4.75V - 5.25V or equivalent/analogue	50		
6	Level convertor SGM4553YN8G type/1.3V-5.5V/Case SOT 23-8 type or equivalent/analogue	350		
7	Boost convertor FP6296XR type/2,7-12 V/10A/400KHz or equivalent/analogue	100		
8	Tarnsistor IRF7314 type/20V/5,3 A/58mOhm or equivalent/analogue	100		
9	Buck convertor LM2576S-ADJ type/8 - 48V/3A/52KHz or equivalent/analogue	50		
10	Buzzer GSC1625YB type/80dB/3V- 25V/Case SMD 16 X 16 X2.5mm type or equivalent/analogue	50		
11	Ultrosonic Sensor uy-us42 type/5V/I2C Protocol/20-800 sm measurement distance or equivalent/analogue	50		
12	3G antenna/127mm/800-1800Mhz or equivalent/analogue	50		
13	Bluetooth module HC-05 type 4V UART RS-232 or equivalent/analogue	50		
14	Rechargeable battery type GP2700 rechargeable 2700 AAHC 1,2v 2600mAh or equivalent/analogue	600		
	Supporting devices			
1	The body of the device - a special shield made of stainless steel (20x20x25)	50		
2	Pype D32, m	250		
3	Stem and clutch D32, ps.	150		

Bolt&nut D12, шт.	200			
Installing of monitoring system sensors				
 Installation of sensors with adjustment of information transmission for the intended addresses (addresses of installation points are given above), pcs. 				
2 Other expenses				
Total price:				
VAT 15% (for companies registered in Uzbekistan as VAT payers)				
Total price including VAT 15% (for companies registered in Uzbekistan as VAT payers):				
С	Installation of sensors with adjustment of information transmissi addresses (addresses of installation points are given al Other expenses Total price: VAT 15% (for companies registered in Uzbekistan a	Installation of sensors with adjustment of information transmission for the intended addresses (addresses of installation points are given above), pcs. Other expenses Total price: VAT 15% (for companies registered in Uzbekistan as VAT payers)	Installation of sensors with adjustment of information transmission for the intended addresses (addresses of installation points are given above), pcs. Other expenses Total price: VAT 15% (for companies registered in Uzbekistan as VAT payers)	

Dear Bidders,

You are kindly asked to fill Annex 1 to Amendment No.1 as a Bid Submission Form herewith attached as Annex 1 to Amendment No.1 and submit it to <u>bids.uz@undp.org</u>.

All Amendments to the RFQ/066/20 are an integral part of it, and all participants must comply with the requirements stipulated by such additions. Any deviation from the claims made by amendments to this RFQ may result in consideration of the proposal as not meeting the requirements and withdrawing from further evaluation.

All other terms and conditions of the RFQ/066/20 remain unchanged.