Call for bids

Pursuant to point 2.4 of the SAMRS financial guide No.1 / 2019 (Principles of awarding contracts - goods, services and construction works intended for official development assistance of the Slovak Republic)

Call number: 46230/0007/2021

1. Contracting authority:	FCHPT STU v Bratislave
Address:	Radlinského 9
City:	Bratislava
Postal code	812 37
ID	00397687
Contact person:	Ing. Barbora Dudášová
tel. No .:	+421 259325250
e-mail:	<u>barbora.dudasova@stuba.sk</u>

2. Object of contract

Supply of laboratory equipment within the SAMRS / 2019 / AFG / 01/01 project and securing the delivery of goods at the destination.

3. Type of contract

Contract for supplying goods and services

4. Short description of contract

Laboratory equipment and devices specified in the attached table. It is a laboratory facility designed for the educational process in the renewable energy demonstration. Delivery of all equipment as a whole from one supplier is required. Tenders containing only part of the facilities and services will not be accepted. The facilities are procured under the official development assistance of the Slovak Republic for Afghanistan. The place of delivery and operation of these facilities is Kabul Afghanistan. The offer must include export-related costs and cost of transporting the goods to the destination.

5. Estimated value of contract: EUR 24300

6. Date of delivery (contract duration)

The goods must be transported and delivered at the place of delivery within two months after an official order is delivered to the supplier.

7. Main place of delivery of goods / provision of services

DAT Kabul, Afghanistan

8. Financing conditions and payment arrangements

The subject of the contract will be financed from the resources of the Slovak Development Aid for Afghanistan under the SAMRS / 2019 / AFG / 01/01 project. The costs will be paid by the customer in three payments:

- 1. 20%: when the equipment are ordered
- 2. 60%: when the equipment are prepared for shipping

3. 20%: up two weeks after delivery of equipment at the destination (Kabul airport)

9. Conditions of participation

1. The participant must submit an offer, which is complete and contains all the items listed in the attached table, the goods shall meet European quality standards, the participant must list all required information (price, producer and internet link) for each item.

2. The participant should provide services for delivery of the goods to the final destination (Kabul, Afghanistan)

3. The participant must provide warranty and post-warranty service of the equipment at the destination (Kabul, Afghanistan)

3. The participant shall prove the ability to carry out this contract at least by 3 references of similar performance, installation of similar equipment in developing countries.

10. Bid evaluation criteria

All offers will be evaluated in the first step to meet the equipment's technical requirements. Offers which are not complete or do not meet the required technical requirements shall be excluded. Subsequently, it is assessed whether the requirements of this call for delivery of goods in the place of destination are met, and also to guarantee the warranty and post-warranty service in Afghanistan. Offers that do not include these requirements will be excluded. Bidders who meet all the conditions set out in point 9 will be listed in ascending order, with the successful bidder being the first. We will start negotiating the delivery of the goods with the successful tenderer and sign the contract.

11. Tender deadline

Date and time: all offers must be supplied until January 15, 2021 at 4:00 pm

12. Tender Place

FCHPT STU in Bratislava, Department of Chemical and Biochemical Engineering, Radlinského 9, 812 37 Bratislava Contact address: <u>barbora.dudasova@stuba.sk</u> Offers must be sent to the e-mail address listed

13. Content of offer

The offer must contain, in addition to the quotation, the following documents and documents in paper form (signed scans are required):

- a completed table annexed to this call
- company business licence
- min. 3 references of similar performance

In Bratislava January 5, 2021	Signature of the Contractor authority:

No.	1	
Name of the	PV-KIT-300W. 300W Photovoltaic Kit with Regulator and	
device	Measurement Instrumentation	
Specifications of	• LP-3/C. 3 Lamps Panel with Remote Control.	
the device	Power: 3 x 500 W.	
	Aluminium structure.	
	N-REG-AC/LR. AC Local/Remote Current Regulator Module.	
	16 A fuse.	
	Switch for control modes: Local or SCADA.	
	ENABLE/DISABLE switch.	
	Potentiometer for manual intensity control.	
	Current signal control connector.	
	ON/OFF switch.	
	Power connector.	
	Module supply voltage: 230 VAC.	
	Working intensity range: 0 - 6, 5 A.	
	Maximum motor output power: 1500 W.	
	N-REG02. Current Electronic Regulator Module 2.	
	16 A fuse.	
	4-stage PWM charge controller.	
	USB output.	
	Input connectors with auxiliary terminals.	
	ON/OFF switch. 12 V batteries *.	
	DC Output Power Terminals.	
	Module supply voltage: 230 VAC.	
	Nominal operating voltage: 24 V.	
	Rated discharge current: 20 A.	
	Admissible DC voltage range: 12 - 50 V.	
	Voltage load Floatation / Absorption / Equalization: 13 - 15 V.	
	• N-MED81. DC Ammeter (0 - 30 A).	
	Analogue Ammeter.	
	Connection terminals.	
	Intensity range: 0 - 30 A.	
	• N-MED16. DC Voltimeter (0 – 50 V).	
	Analogue Voltmeter.	
	Connection terminals.	
	Voltage range: 0 - 50 V.	
	• PV-24/300W. Photovoltaic Panel, 24 VDC, 300 W.	
	Number of cells: 6 x 12.	
	Maximum power: 335 W.	
	Voltage at maximum power: 38.2 V.	
	Current at maximum power: 8.77 A.	
	Short circuit current (Isc): 9.38 A.	
	Open circuit voltage (Voc): 46.1 V.	
	Module efficiency: 17.2.	
	• BAT2. 70 Ah Battery (2 units).	
Vour estalague	Nominal voltage: 12 VDC.	
Your catalogue name of the		
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link to the device	
description	
Your price DAT	
Kabul (EUR)	

No.	2
Name of the	LABORATORY SET-UP "Thermal solar system"
device	
Specifications of the device	The required laboratory unit have to be a computer controlled unit for the study of the conversion of wind energy into electricity. The unit should enable at least the following measurements:
the device	
	 Independent connection for every load with the help of the four position load selector: Position 1: The aerogenerator or regulator operates at open circuit

	 voltage. Position 2: The DC lamps and the rheostat are directly connected to the aerogenerator or regulator, depending on the selection made in the computer. These loads can be connected independently or in parallel with the help of manual switches.
	• Position 3: The DC motor is directly connected to the aerogenerator or
	 regulator. Position 4: Bypass mode, there are no DC loads.
	• Sensors:
	• "J" type temperature sensor to measure the air temperature inside
	of the tunnel.
	 The air speed is measured with a sensor placed in the tunnel; sensor range: 0.20 – 10 m/s.
	• An optical sensor measures the rotational speed of the
	 aerogenerator (r.p.m.). DC voltage and current sensor. It is possible to know, in real time, the value of the DC voltage and the current given by aerogenerator, measured before and after the regulator.
	 Force sensor to measure the mechanical torque of the wind turbine, range: 0 - 600 g.
	\circ Force sensor to measure the thrust force on the wind turbine, range: 0 –
	3000 g.
Your catalogue	
name of the	
device and web	
link to the device	
description	
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Kabul (EUR)	