



**ISLAMIC REPUBLIC OF AFGHANISTAN
NATIONAL WATER AFFAIRS REGULATION
AUTHORITY (NWAR-A)**



**SHOPPING FOR GOODS
REQUEST FOR QUOTATION**

PROCUREMENT (SHOPPING) OF
(AIR QUALITY & SOUND METER MEASUREMENT TOOLS)

**ADB Grant No. and Title: 0362-AFG: Water Resources Development Investment
Program - Project 2**

PACKAGE NO. WRDIP/T2/SHP-G/01

July 2020



SHOPPING FOR GOODS

REQUEST FOR QUOTATION (RFQG)

Project Title: **ADB Grant – 0362 Afghanistan Water Resources Development Investment Program**
 Source of Funding: **Asian Development Bank**
 Contract Ref: WRDIP/T2/SHP-G/01
 To: (Supplier) _____

Date of Issue of Request: 20-July-2020

Sir/Madam:

- The Islamic Republic of Afghanistan has received a grant from the Asian Development Bank (ADB) towards the Water Resources Development Investment Program (WRDIP-T2) and intends to apply part of the fund to cover the eligible payments under the contract for procurement (Shopping) of (Air Quality & Sound Meter Measurement Tools) under this RFQ.

Item	Description	Qty
1	SVAN 977 Type 1 Sound Analyzer including 1/1 octave analysis, pre-polarized microphone, Preamplifier, Windscreen, microSD card 4GB, 4 x AA batteries, CD with instruction and Software (freeware), 1/3 octave analysis option, Carrying case for SVAN 97x and accessories Two Year Warranty for instrument & One Year for Mic	3
	Type 1 acoustic calibrator: 1000 Hz/114 dB & 94HZ (without SA 30) Two Year warranty	3
	Light weight universal Tripod	3
2	HIM-6000-EPA Criteria Kit Hazardous Incident Monitor Includes: TSP (Impactor Sleeve IMS-105), PM 2.5 Impactor, PC-105 Precipitation Cap, CO, NO ₂ , O ₃ , and SO ₂	3
	HS-PSPM-10 Additional Particulate Sensor for PM 10	3
	HS-1.0um PM 1.0 particle size impactor	3
	HS-4.0 Particulate Impactor for PM 4.0	3
	HS-TSP-600 Total Suspended Particles Displayed in addition to PM-2.5 & PM-10	3
	HS-H ₂ S-6000 Hydrogen Sulfide Sensor	3
	HS-O ₂ -60000 Oxygen Sensor	3
	HS-CD-6000 Carbon Dioxide Sensor CO ₂	3
	HS-PID-6000 Volatile Organics (VOC) PID Sensor	3
	TRH-600 Temperature & Relative Humidity Sensor	3
	HS-SM-6000 Sound Level Meter	3
	TP-600 Tripod Stand	3
	FM-105 Flow Audit Measuring Device EPAM-5000	3
	CS-105 Calibration Span Reference for infield calibration verification of particulates	3
	IG-105 Impactor Grease	3
	RT-600 Rain Trap for HAZ-SCANNER	6
	ZF-105 Zeroing Filter	6
	Provide 2 days training to the NWARA staff for the application and usage of the above instrument.	1
	Transportation cost to the final destination of the above good	1



If you, however, have been associated with the firm that prepared the design, and specifications of the contract that is subject of this procurement, you shall be disqualified.

To assist you in the preparation of your price quotation we enclose the necessary technical specifications and required quantities.

2. You may quote for any or more items under this request. Each item shall be evaluated and contract awarded separately to the firm(s) offering the lowest evaluated price for each item. **[Option: You must quote for all the items under this request. Price quotations will be evaluated for all the items together and contract awarded to the firm offering the lowest evaluated total cost of all the items].**

3. You shall submit one original of the Price Quotation with the Form of Quotation, and clearly marked "Original". In addition, you shall also submit one copy marked as "COPY". In case of any discrepancy between the Original and Copy, the original shall prevail. Your quotation in the attached format should be signed, sealed in an envelope and addressed to and delivered to the following address.

Purchaser's Address : **National Water Affair Regulation Authority (NWARA),
Block no 5, Right hand Corridor
Central Project Management Office CPMO
Dural – Aman Road, Opposite Sanatorium
Kabul, Afghanistan**

Email: msadat@cpmo-nwara.org
Saidmoqeen5@gmail.com

Telephone : +93 78 653 8477

[Option: Your price quotation in the form attached may be submitted by facsimile or electronically to the following address:] Not Applicable

Purchaser's Address : _____

Telephone : _____

Fax : _____

4. Your quotation in duplicate and written in **English** language should be accompanied by adequate technical documentation and catalogue(s) and other printed material or pertinent information in **English language** for each item quoted, including names and addresses of firms providing after-sales service facilities in **Islamic Republic of Afghanistan**.

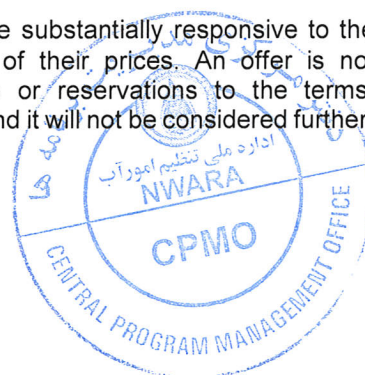
5. The deadline for receipt of your quotation (s) by the Purchaser at the address indicated in Paragraph 3 is: Sunday 9-August-2020, 10:00 AM, Kabul, Afghanistan. The sealed bids (quotations) shall be opened in the presence of all bidders.

6. You shall submit only one set of quotations for the above items. Your quotation must be typed or written in indelible ink and shall be signed by you or your authorized representative. Without a signature in your Form of Quotation, your quotation will not be considered further.

7. Your quotation(s) should be submitted as per the following instructions and in accordance with the attached form of Contract. The attached Terms and Conditions of Supply is an integral part of the Contract.

(i) **PRICES:** The prices should be quoted for supply and delivery to **National Water Affair Regulation Authority**. Prices shall be quoted in **United States Dollar (US \$)**.

(ii) **EVALUATION OF QUOTATIONS:** Offers determined to be substantially responsive to the technical specifications will be evaluated by comparison of their prices. An offer is not substantially responsive if it contains material deviations or reservations to the terms, conditions, and specifications in this Request for Quotation, and it will not be considered further.



The Purchaser will evaluate and compare only the quotations determined to be substantially responsive. In evaluating the quotations, the Purchaser will adjust 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; and
 - (c) If a Supplier refuses to accept the correction, his quotation will be rejected.
- (i) In addition to the quoted price, the evaluated price shall include Value Added Tax (VAT) in **Islamic Republic of Afghanistan**. In addition, the current local taxes are 7 % Business Receipt Tax (BRT) in case the bidder is not registered in Afghanistan and 2 % Business Receipt Tax (BRT) if the bidder is registered in Afghanistan. The bidder should include appropriate VAT, BRT & local tax in the price.
- a. For information on taxes in Afghanistan, the bidder is advised to refer to the web site of Ministry of Finance: www.mof.gov.af/tax.

- (iii) **AWARD OF PURCHASE ORDER.** The award will be made to the bidder offering the lowest evaluated price and that meets the required standards of technical and financial capabilities.

The successful bidder will sign a Contract as per attached form of contract and terms and conditions of supply.

- (iv) **VALIDITY OF THE OFFER:** Your quotation(s) should be valid for a period of Sixty (60) days from the deadline for receipt of quotation(s) indicated in Paragraph 5 of this Request for Quotation.
- (v) If you withdraw your quotation during the validity period and/or refuse to accept the award of a contract when and if awarded, then you will be excluded from the list of suppliers for the project for two years.

8. Further information can be obtained from the below address:

Purchaser's Address: **National Water Affair Regulation Authority (NWARA),
Block no 5, Right hand Corridor
Central Project Management Office C-PMO
Dural – Aman Road, Opposite Sanatorium
Kabul, Afghanistan**

Email: msadat@cpmo-nwara.org
Saidmoqem5@gmail.com

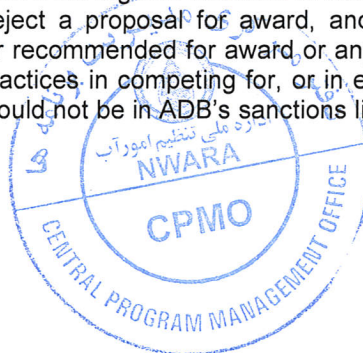
Telephone : +93 78 653 8477

9. A Pre-bid meeting will be organized at the location above mentioned in par 3 on 29-July-2020, 10:00 AM. The pre-bid meeting attendance is not mandatory

10. The bidder whose quotation has been accepted will be notified of the award of contract through the Letter of Acceptance issued by the Purchaser within 30 days from the date of submission of quotation.

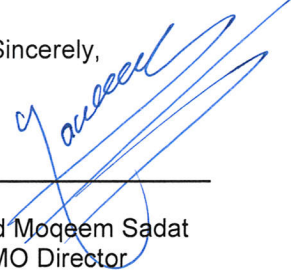
11. The Purchaser intends to apply funds from the Asian Development Bank (ADB) for eligible payments under the Purchase Order resulting from this RFQ.

12. Under ADB's Anticorruption Policy bidders shall observe the highest standard of ethics during the procurement and execution of such contracts. ADB will reject a proposal for award, and will impose sanctions on parties involved, if it determines that the bidder recommended for award, or any other party, has engaged in corrupt, fraudulent, collusive, or coercive practices in competing for, or in executing, the Contract. At the time of submission of your quotation, you should not be in ADB's sanctions list.



13. Please Confirm by fax/e-mail the receipt of this request and whether or not you will submit the price quotation(s).

Sincerely,



Eng. Said Moqem Sadat
CPMO Director



FORM OF QUOTATION

To: National Water Affair Regulation Authority
Central Project Management Office (C-PMO)

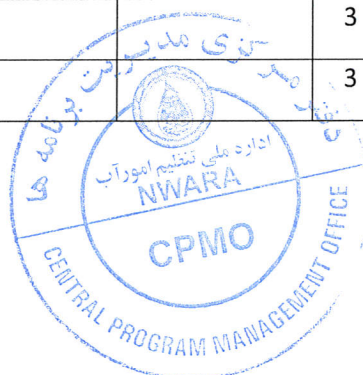
Address: National Water Affair Regulation Authority (NWARA),
Block no 5, Right hand Corridor
Central Project Management Office C-PMO
Dural – Aman Road, Opposite Sanatorium
Kabul, Afghanistan

We offer to execute the shopping of **Air Quality & Sound Meter Measurement Tool**, **Contract Ref no WRDIP/T2/SHP-G/01** in accordance with the Conditions of Contract accompanying this Quotation for the Contract Price of _____ (amount in words and numbers) _____ US \$. We propose to complete the delivery of Goods described in the Contract within the following Delivery Time from the Date of Signing of the Contract.

Prices and Schedules for Supply

Air Quality & Sound Meter Measurement Tool

Item	Description	Unit Price (US \$)	Qty	Total Price (US \$)	Delivery Period
1	SVAN 977 Type 1 Sound Analyzer including 1/1 octave analysis, pre-polarized microphone, Preamplifier, Windscreen, microSD card 4GB, 4 x AA batteries, CD with instruction and Software (freeware), 1/3 octave analysis option, Carrying case for SVAN 97x and accessories Two Year Warranty for instrument & One Year for Mic		3		90 day
	Type 1 acoustic calibrator: 1000 Hz/114 dB & 94HZ (without SA 30) Two Year warranty		3		
	Light weight universal Tripod		3		
	HIM-6000-EPA Criteria Kit Hazardous Incident Monitor Includes: TSP (Impactor Sleeve IMS-105), PM 2.5 Impactor, PC-105 Precipitation Cap, CO, NO ₂ , O ₃ , and SO ₂		3		
	HS-PSPM-10 Additional Particulate Sensor for PM 10		3		
	HS-1.0um PM 1.0 particle size impactor		3		
	HS-4.0 Particulate Impactor for PM 4.0		3		
	HS-TSP-600 Total Suspended Particles Displayed in addition to PM-2.5 & PM-10		3		
	HS-H2S-6000 Hydrogen Sulfide Sensor		3		
	HS-02-60000 Oxygen Sensor		3		



2	HS-CD-6000 Carbon Dioxide Sensor CO2		3	
	HS-PID-6000 Volatile Organics (VOC) PID Sensor		3	
	TRH-600 Temperature & Relative Humidity Sensor		3	
	HS-SM-6000 Sound Level Meter		3	
	TP-600 Tripod Stand		3	
	FM-105 Flow Audit Measuring Device EPAM-5000		3	
	CS-105 Calibration Span Reference for infield calibration verification of particulates		3	
	IG-105 Impactor Grease		3	
	RT-600 Rain Trap for HAZ-SCANNER		6	
	ZF-105 Zeroing Filter		6	
	Provide 2 days training to the NWARA staff for the application and usage of the above instrument.		1	
	Transportation cost to the final destination of the above good		1	

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 Offer and Warranty conditions imposed by the Request for Quotation document and the Terms and Conditions of Supply, respectively.

We have not been associated with the firm that prepared the design and specifications of the contract that is subject of this request for quotation.

We are not in the ADB sanctions list.

Authorized Signature: _____

Name and Title of Signatory _____

Name of Supplier: _____

Address : _____

Phone Number : _____

Fax Number, if any _____

Email address (optional) _____



FORM OF CONTRACT

THIS AGREEMENT number _____ made on _____, 2020, between
_____ (hereinafter called "the Purchaser") on the one part and
_____ (hereinafter called "the Supplier") on the other part.

WHEREAS the Purchaser has requested for quotation for _____ (description of goods) to be supplied by Supplier, viz. Contract _____, (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 WITNESSETH 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. Taking into account payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby concludes an Agreement with the Purchaser to execute and complete the supply of goods under the Contract and remedy any defects therein in conformity with the provisions of the Contract.
3. The Purchaser hereby covenants to pay, in consideration of the acceptance of Contract, supply and delivery of the goods and remedying of defects therein, the Contract Price in accordance with Payment Conditions prescribed by the Contract.

IN WITNESS whereof the parties hereto have executed the Contract under the laws of _____ (country of Purchaser) on the date indicated above.

Signature and seal of the Purchaser:
For and on behalf of

Signature and seal of the Supplier:
For and on behalf of

Name of Authorized Representative

Name of Authorized Representative

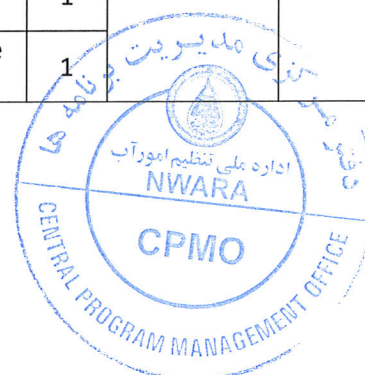


TERMS AND CONDITIONS OF SUPPLY

Project Name: **ADB Grant – 0362 AFG- Water Resources Development Investment Program**
Purchaser: **National Water Affair Regulation Authority (N-WARA), Central Project Management Office (C-PMO).**
Package No. **WRDIP/T2/SHP-G/01**

1. Schedules for Supply

Item	Description	Qty	Incoterm Applied	Delivery Period
1	SVAN 977 Type 1 Sound Analyzer including 1/1 octave analysis, pre-polarized microphone, Preamplifier, Windscreen, microSD card 4GB, 4 x AA batteries, CD with instruction and Software (freeware), 1/3 octave analysis option, Carrying case for SVAN 97x and accessories Two Year Warranty for instrument & One Year for Mic	3	The incoterm applied for the shopping is DDP (Delivered Duty Paid), Refer to clause 7	90 calendar days
	Type 1 acoustic calibrator: 1000 Hz/114 dB & 94HZ (without SA 30) Two Year warranty	3		
	Light weight universal Tripod	3		
2	HIM-6000-EPA Criteria Kit Hazardous Incident Monitor Includes: TSP (Impactor Sleeve IMS-105), PM 2.5 Impactor, PC-105 Precipitation Cap, CO, NO ₂ , O ₃ , and SO ₂	3		
	HS-PSPM-10 Additional Particulate Sensor for PM 10	3		
	HS-1.0um PM 1.0 particle size impactor	3		
	HS-4.0 Particulate Impactor for PM 4.0	3		
	HS-TSP-600 Total Suspended Particles Displayed in addition to PM-2.5 & PM-10	3		
	HS-H ₂ S-6000 Hydrogen Sulfide Sensor	3		
	HS-O ₂ -60000 oxygen Sensor	3		
	HS-CD-6000 Carbon Dioxide Sensor CO ₂	3		
	HS-PID-6000 Volatile Organics (VOC) PID Sensor	3		
	TRH-600 Temperature & Relative Humidity Sensor	3		
	HS-SM-6000 Sound Level Meter	3		
	TP-600 Tripod Stand	3		
	FM-105 Flow Audit Measuring Device EPAM-5000	3		
	CS-105 Calibration Span Reference for infield calibration verification of particulates	3		
	IG-105 Impactor Grease	3		
	RT-600 Rain Trap for HAZ-SCANNER	6		
	ZF-105 Zeroing Filter	6		
	Provide 2 days training to the NWARA staff for the application and usage of the above instrument.	1		
	Transportation cost to the final destination of the above good	1		



<u>Spare Parts</u>	}
<u>Tools and Accessories</u>	}
<u>Manuals</u>	} Specify, if applicable.
<u>Maintenance Requirements</u>	}

2. Fixed Price: The prices indicated in the Form of Quotation are firm and fixed and not subject to any adjustment during contract performance.
3. Delivery Schedule: The delivery should be completed as per above schedule but not exceeding 90 calendar days from the date of signing of contract.
4. Insurance: The Goods supplied under the Contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery. The insurance shall be in an amount equal to 110 percent of the value of the Goods on "All risks" basis.
5. Applicable Law: The Contract shall be interpreted in accordance with the laws of the Islamic Republic of Afghanistan.
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 provisions of the Arbitration Law and rule of the Islamic Republic of Afghanistan.
7. Delivery and Documents: Upon delivery, the Supplier shall provide the following documents to the Purchaser:
 - 1) copies of the Supplier's invoice showing goods' description, quantity, unit price, and total amount;
 - 2) Manufacturer's or supplier's warranty certificate; and Certificate of origin.
 - 3) The supplier will demonstrate to the Purchaser / Consignee's satisfaction that the goods confirm to the Technical Specification.

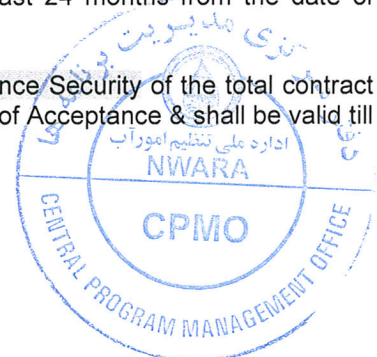
Note:

- a) The incoterm applied is **DDP (Delivered Duty Paid)**, the bidders are requested to fully educate themselves about the incoterm utilization.
- b) Delivery, Transportation, Insurance, Storage, Unloading, Installation, Testing and Commissioning at the final point of destination shall be the responsibility of the Supplier, and such cost shall be included in the Bid Price.
- c) The goods shall be delivered and drop to the below address;

**National Water Affair Regulation Authority (NWARA),
Block no 5, Right hand Corridor
Central Project Management Office C-PMO
Dural – Aman Road, Opposite Sanatorium
Kabul, Afghanistan**

If goods are coming by courier, supplier shall also provide prior to delivery, copies of documents that will enable Purchaser to receive the goods. The above documents shall be received by the Purchaser at least one week before arrival of the goods and, if not received, the Supplier shall be responsible for any consequent expenses.

8. Payment: 100% Payment will be made after the delivery and acceptance of goods by the purchaser in the form of direct transfer to the supplier's bank account.
9. Warranty: Goods offered should be covered warranty for at least 24 months from the date of delivery to the Purchaser.
10. Performance Security: The supplier shall provide 10% Performance Security of the total contract price within a period of one week after the issuance of the Letter of Acceptance & shall be valid till



the end of the warranty period i.e. 24 months.

11. Defects: All defects will be corrected by the Supplier without any cost to the Purchaser within 30 days from the date of notice by Purchaser. The name and address of service facility where the defects are to be corrected by the supplier within the warranty period are:

Facility _____

Address _____

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 events 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. Required Technical Specifications: (See Attachment 1)

- (i) General Description
- (ii) Specific details and technical standards
- (iii) Performance Parameters

Supplier confirms compliance with below specifications.



Attachment 1: Air Quality & Sound Meter Measurement Tool:

MINIMUM TECHNICAL SPECIFICATIONS

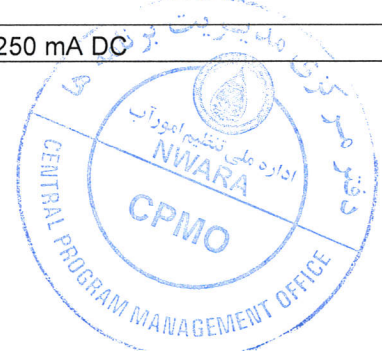
1. SVAN 977A Sound & Vibration Level Meter

SVAN 977A Class 1 **SOUND & VIBRATION** Level Meter and analyzer is designed to meet the needs of both environmental monitoring and occupational health and safety monitoring specialists.

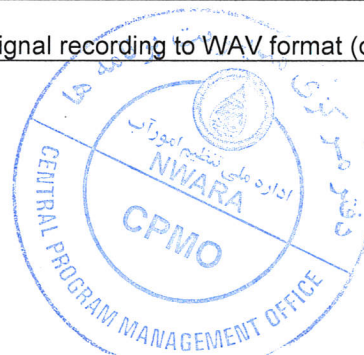
The kit consists of SVAN 977A Class 1 sound & vibration level meter with a detachable preamplifier SV 12L and high quality omni-directional ACO SV 7052E microphone, compliant to IEC61094-4. The list of accessories includes: SA 143 carrying case, SA 22 windscreen, 16 GB microSD card, four AA batteries, USB cable, and CD with user manual. Each SVAN 977A has its factory calibration certificate and 36 months' warranty card.



General information	
Input	IEPE with TNC connector
Memory	MicroSD card 16 GB (removable & upgradeable)
Display	Super contrast (10000:1) OLED 2.4" colour display (320 x 240 pixels)
Interfaces	USB 2.0 Client, Bluetooth®, RS 232 (with optional SV 55)
External	I/O - AC output (1 V Peak) or Digital Input/Output (Trigger – Pulse)
Power Supply	Four AA batteries operation time > 12 h (6 V / 2 Ah) ²
	Four rechargeable AA batteries operation time > 16 h (4.8 V / 2.6 Ah) ² (not included)
	External power supply 6 V/500 mA DC ÷ 15 V/250 mA DC



	USB interface 500 mA HUB
Environmental Conditions	Temperature from -10 °C to 50 °C
	Humidity up to 90 % RH, non-condensed
Dimensions	340 x 79 x 39 mm (with microphone and preamplifier)
Weight	Approx. 0.6 kg with batteries
SVAN 977A Technical Specifications	
Sound Level Meter & Analyzer	
Standards	Class 1: IEC 61672-1:2013; Class 1: IEC 61260-1:2014
Weighting Filters	A, B, C, Z, LF, U, AU
Time Constants	Slow, Fast, Impulse
Microphone	ACO SV 7052E, 35 mV/Pa, prepolarised 1/2" condenser microphone
Preamplifier	SV 12L detachable (TNC)
Linear Operating Range	25 dBA RMS ÷ 140 dBA Peak (in accordance to IEC 61672)
Total Dynamic Measurement Range	15 dBA RMS ÷ 140 dBA Peak (typical from noise floor to the maximum level)
Internal Noise Level	Less than 15 dBA RMS
Dynamic Range	>110 dB
Frequency Range	10 Hz ÷ 20 kHz with ACO SV 7052E
Meter Mode Results	Elapsed time, Lxy (SPL), Lxeq (LEQ), Lxpeak (PEAK), Lxymax (MAX), Lxymin (MIN), LR (ROLLING LEQ), Ovi (OVERLOAD), Lxye (SEL), LN (LEQ STATISTICS), Lden, LEPd, Ltm3, Ltm5
Measurement Profiles	Simultaneous measurement in three profiles with independent set of filters (x) and detectors (y)
Analyser1 (optional)	1/1 octave or optional 1/3 octave real-time analysis, up to 40.0 kHz band meeting Class 1: IEC 61260-1
	FFT analysis 1600 lines, up to 40.0 kHz band (optional)
	RPM rotation speed measurement parallel to the vibration measurement (optional)
Statistics	Ln (L1-L99), complete histogram in meter mode and 1/1 or 1/3 octave analysis
Data Logger1	Time-history logging of summary results, spectra with adjustable double logging steps down to 2 ms
Audio Recording1 (optional)	Audio records to time-history data or WAV format with selectable band and recording period
Vibration Level Meter & Analyser	
Standards	ISO 20816-1
Meter Mode	RMS, Max, Peak, Peak-Peak
	Simultaneous measurement in three profiles with independent filter sets and detectors
Filters	HP1, HP3, HP10, Vel1, Vel3, Vel10, VelMF, Dil1, Dil3, Dil10, Wh
Accelerometer	SV 80 (100 mV/g) or any IEPE accelerometer (optional)
Analyser1 (optional)	1/1 octave or optional 1/3 octave real-time analysis, up to 40.0 kHz band meeting Class 1: IEC 61260-1
	FFT analysis 1600 lines, up to 40.0 kHz band (optional)
	RPM rotation speed measurement parallel to the vibration measurement (optional)
Data Logger	Time-history logging of summary results, spectra with two adjustable logging steps
Time-domain Signal Recording1	Continuous or triggered time-domain signal recording to WAV format (optional)



2. HAZ-SCANNER™ Model HIM-6000 Hazardous Incident Air Quality Monitoring System

Haz-Scanner™ Model HIM-6000 is a complete easily portable and deployable ambient air quality monitor designed to measure and document critical hazardous air parameters for regulatory compliance, emergency response, or any air quality investigations.

Haz-Scanner™ provides direct readings in real-time with data logging capabilities.

Haz-Scanner™ can be configured to provide up to 14 simultaneous critical air measurements in one easily portable battery operated instrument.



HIM-6000 Shown with optional tripod stand & solar panels Atomic Radiation and Noise level Meter

HIM-6000 Features:

- Easily portable and deployable
- Data Logging and Real-Time Wireless Data Transmission
- Easy to use Graph & Reporting Software compatible with PC and Mac
- "Plug & Play" feature for adding up to 14 Sensors.

Specifications: Optimized for Ambient Air Quality Applications - Custom Calibration for Specific Ranges or Applications Are Available Upon Request



<i>Particulates</i>	
Particulates 90° Infra-Red Light Scattering	$1\mu\text{g}/\text{m}^3 - 20,000\mu\text{g}/\text{m}^3$ or $.01\text{mg}/\text{m}^3 - 200\text{mg}/\text{m}^3$
Particle Size Range	.1 - 100 μm
Particle Size Measurement	1 μm , 2.5 μm , 4.0 μm , 10 μm , TSP

<i>Volatile Organics (VOC)</i>	
PID 10.6 ev	0 - 100PPM

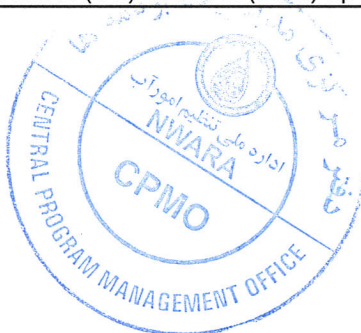
<i>NDIR</i>	
CO ₂ - Carbon Dioxide	0 - 5,000PPM

<i>Electro Chemical</i>	
CO - Carbon Monoxide	0 - 100PPM
H - Hydrocarbon	0 - 100PPM
NO - Nitric Oxide	0 - 25PPM
NO ₂ - Nitrogen Dioxide	0 - 5000PPB (0-5PPM)
O ₂ - Oxygen	0-50%
SO ₂ - Sulfur Dioxide	0 - 5000PPB (0-5PPM)
O ₃ - Ozone	0-1000PPB (0-1PPM)

Rain Gauge (heated) 0-5" Tip bucket

Temperature	-20°C to 60°C
Relative Humidity	0 - 100%
Solar Irradiance	0-111 w/m ²
Sound & Noise	30 - 135 db
Atomic Radiation	1 - 19999cpm ³ or RAD
ELF Radiation	1 - 200mG
Wind Speed/Direction	0-125mph / 5-355deg
Barometric Pressure	28-31 in/Hg

<i>Instrument Specifications</i>	
Display	LCD real-time
Operation	4 Key Splash Proof Membrane Switch
Power	12V NiMH Battery
Operating Time	10 Hours on Standard Battery Continuous on AC, Optional Solar Panels
Display Measurements	MAX, MIN, TWA, STEL
Recording Time	1 sec to 21 weeks
Sampling Rate	1 sec, 1 min, 10 min, 1 hour, adjustable
Data Storage	36,000 Data Points
Sampling Pump	1 - 3.0 lpm
Digital Output	RS-232 (PC), RS-423 (MAC)
Software	PC or Macintosh
Dimension	14" x 6" x 10" weather proof case
Weight	12 lbs
Operating Temperature	-20°C to 60°C
Storage Temperature	-40°C to 60°C
Humidity	95% Non-Condensing use inlet heater
Wireless Radio Modem	900MHz (US) 868MHz (Euro) up to 10 miles



Note: The amount for each item shall be inclusive of VAT, BRT, Local Taxes and duties. The Firm shall offer its price based on the incoterm term DDP (Delivered Duty Paid) applied for the shopping, **refer to clause 7 Terms and conditions of supply & Technical Specification** .The final destination where the goods shall be delivered is NWARA Compound, Darul Aman Road, Kabul Afghanistan.

13. Failure to Perform: The Purchaser may cancel the Agreement if the Supplier fails to deliver the Goods, in accordance with the above terms and conditions, in spite of a 14-day notice given by the Purchaser. The Performance Security shall be forfeited by the employer.

NAME OF SUPPLIER: _____

Authorized Signature: _____

Place: _____

Date: _____

