ASTI-FM 03-11
REV 1/13 January 2020

DOST-ASTI Bids and Awards Committee
Invitation to Bid (Public Bidding)

ITB No:	21-10-3598	**Date:**	October-19-2021
PR No:	GAA-21-09-12211	**Date:**	September-24-2021

Source of Funds:	
Total ABC:	Php 2,772,000.00
Time, Date & Venue of Pre-bid Conference:	October 27, 2021, 9:00 AM at Via videoconferencing
Time and Date of Submission of Bids:	November 08, 2021, 10:00 AM
Time, Date & Venue of Opening Bids:	November 08, 2021, 10:30 AM at DOST-ASTI and Videoconferencing
Date of availability of Complete Set of Documents:	October 19, 2021
Deadline of Potential Bidder's Clarifications:	October 29, 2021
Deadline of ASTI's Supplemental Bid Bulletin:	November 01, 2021
Delivery Schedule:	

The Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), hereby invites all interested bidders to submit their bids for the item(s) listed below. Guidelines regarding the format, eligibility, technical and financial documents needed are described in the Instruction to Bidders of the Philippine Bidding Documents

Bidding will be conducted through open competitive bidding procedures using a non discretionary "pass/fail" criterion as specified in the 2016 R-IRR of RA 9184.

A complete set of Bidding Documents may be purchased by interested bidders upon payment of a fee for the Bidding Documents. It is also downloadable for free of charge at DOST-ASTI's website - ***www.asti.dost.gov.ph***

For further inquiries, contact ASTI's BAC Secretariat via email at ***bac-sec@asti.dost.gov.ph***. Interested bidders may also call the number - (632)-426-7423 and look for ASTI's BAC Secretariat.

Respectfully,

Digitally signed by Guba Gerwin Policarpio
Date: 2021.10.19 09:51:26 +08'00'

GERWIN P. GUBA
BAC Chairman

Digitally signed by Katherine Babaran Ramos

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	**WATER LEVEL SENSOR** 1. GENERAL OVERVIEW 1.1. The Advanced Science and Technology Institute (ASTI) is seeking qualified and competent bidders for the Supply and Delivery of forty-two (42) pcs of water level sensors that are capable of non-contact and precise measurement of liquid/water level particularly of rivers by using ultrasonic technology. 1.1.1. The water level sensor must be compatible with the existing ASTI-designed WLMS or Water Level Monitoring Stations, 1.1.2. Must be compatible with ASTI WLMS' arQ firmware 5.0 or later. 1.1.3. Must be mechanically compatible with existing ASTI's WLMS Sensor housing design. 1.2. The approved budget for the contract is inclusive of	42	pc	66000.00	2,772,000.00

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all applicable government taxes and services charges.
1.3. The technical specifications written herein are of minimum requirement, unless otherwise stated.
1.4 The procurement of these sensors will be used in the continuous research and development and maintenance of ASTI WLMS.

2. TECHNICAL SPECIFICATIONS:
2.1. The specific model of the existing sensor is Senix Toughsonic TSPC-21S-232-ASTI
2.2. Max Range: at least 15.2 meters (50 feet)
2.3. Optimum Range: at least 30.5 cm - 10 meters. (12 in. - 33 ft.)
2.4. Case Material: 316 stainless steel
2.5. Operating Temperature: -40 to 70 C (-40 to 158 F)
2.6. Humidity (Operating): 0 to 100%
2.7. Transducer: Ruggedized piezoelectric
2.8. Compensation: Temperature compensated
2.9. Sensor Dimension:
    2.9.1. Length: 4.8 in (122 mm) ± 1mm
    2.9.2. Diameter: 2.312 in (59mm) ± 1mm
2.10. Cable Specifications
    2.10.1. Cross-section: 4 x 0.34mm2 (AWG#22)
    2.10.2. Length: at least 2.5 meters
    2.10.3. Jacket Material: Polyurethane (PUR)
    2.10.4. Tinned ends
2.11. Weight: 29.9 oz (0.82 kg) ± 0.2kg
2.12. Protection: NEMA-4X, NEMA-6P, IP68
2.13. Resolution: Serial Data: 0.0135 in. (0.3438 mm)
2.14. Repeatability: Nominal 0.2% of range @ constant temp.
2.15. Update Rate: 200 ms, adjustable; affected by filter selections
2.16. Communication Interface: RS-232
2.17. Target Requirements:
    2.17.1. Objects: Detects flat or curved objects. Surface must reflect ultrasound back to sensor.
    2.17.2. Orientation: Flat surfaces should be oriented perpendicular to sensor output beam
    2.17.3. Optical: Unaffected by target color, transparency, or other optical characteristics

3. ACCESSORIES:
3.1. Waterproof M12 connector
    3.1.1. Connector Specification Part Number: Binder USA 99 1430 810 04
    3.1.2. Degree of Protection: IP67
    3.1.3. Connector locking system: Screw
    3.1.4. Termination: screw clamp
    3.1.5. Housing material: Zinc die-cast nickel-plated
    3.1.6. Must be compatible with existing arQ receptacle for Water Level sensor
    3.1.7. Supplier must assemble the cable wiring to the connector (the wiring diagram and pin assignment are available upon request)

4. WARRANTY:
4.1. The sensors must be shipped with 30-calendar day return for advanced replacement on DOA parts and components, and a 2-year limited warranty that covers defects in materials and workmanship.

	4.2 Warranty obligation: Five percent (5%). 4.3. Refer to the attached Service Level Agreement for the details of the expected technical support services. 5. PAYMENT AND DELIVERY TERMS: 5.1. The sensors must be delivered within 60 calendar days upon issuance of Notice to Proceed (NTP). 5.2. The price of the bid must be inclusive of government taxes and other fees. 5.3. Payment upon full delivery. 5.4. Supplier must provide detailed mechanical drawing and data sheet of the connectors for approval by the end-user prior to delivery. 5.5. The end-user may request a demonstration with the winning bidder before the actual delivery. 5.6. The winning bidder must provide two (2) samples (out of total number of quantity) of actual unit for evaluation by the end-user prior to delivery. Samples will be returned to the supplier after the evaluation process with test report. 5.7. Supplied with traceable manufacturer's calibration certificate or certificate of conformity.				
TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):					**Php 2,772,000.00**

RESERVATION CLAUSE

The Advanced Science and Technology Institute reserves the right to accept or reject any proposal, to annul the bidding process, and to reject all proposals at any time prior to contract award, without thereby incurring any liability to the affected proponent or proponents.