



25 September 2018

ASTI - BIDS AND AWARDS COMMITTEE

SUPPLEMENTAL BULLETIN NO. BAC-2018-09-035

Supply and Delivery of Probe Type Sensor and Other Items

The ASTI Bids and Awards Committee (BAC) issues this supplemental bid bulletin to clarify, modify or amend items in the Bidding Documents and to reply to queries raised by the potential bidders through letters/emails for the information of all bidders for the procurement of:

Item: Supply and Delivery of Probe Type Sensor and Other Items
 Approved Budget for the Contract (ABC): PhP21,239,300.00
 Invitation to Bid No.: 18-08-2072
 Purchase Request No.: GAA-18-08-6211
 Published Date (PhilGEPS): 11 September 2018

A. AMENDMENT TO BIDDING DOCUMENTS

| REFERENCE | AMENDMENT/CHANGE/CLARIFICATION | |
|--|---|--|
| Section VII. Technical Specifications | FROM: | TO: |
| | <p>1 PROBE TYPE SENSOR</p> <p>A. General</p> <ol style="list-style-type: none"> Power consumption (Normal Mode): 1.2 mA Power consumption (Calibration Mode): 20 mA Supply Voltage: 3.5V to 20 VDC Dimensions: See attached drawing Power on to Output Stable: 400 ms Output Impedance: 10K ohms Operational Temperature: -40C to 85°C Accuracy at 25°C 2% Output>Output 0 to 3V linear with fluid level <p>D. Notes</p> <ol style="list-style-type: none"> Supplier must provide detailed mechanical drawing and data sheet of the connectors for approval by the End-user prior to delivery. End-user may request for a demonstration with the Least Calculated Bid (LCB) / Single Calculated Bid (SCB) during post-qualification. LCB / SCB must provide two (2) samples of actual unit for approval by the End-user as part of the post-qualification and prior to award. If approved by End-user, one (1) sample will be retained for reference of the units to be delivered. Supplied with comprehensive, traceable, calibration certificates. At least two (2) years warranty of parts and services. Must be delivered to DOST-ASTI. Must be compatible to DOST-ASTI arQ datalogger Firmware 3.0 and latter. | <p>1 PROBE TYPE SENSOR</p> <p>A. General</p> <ol style="list-style-type: none"> Power consumption (Normal Mode): 1.2 mA Power consumption (Calibration Mode): 20 mA Supply Voltage: 3.5V to 20 VDC Dimensions: See attached drawing Power on to Output Stable: 400 ms Output Impedance: 10K ohms Operational Temperature: -40C to 85°C Accuracy at 25°C 2% Output>Output 0 to 3V linear with fluid level Communication: ADC voltage <p>D. Notes</p> <ol style="list-style-type: none"> Supplier must provide detailed mechanical drawing and data sheet of the connectors for approval by the End-user prior to delivery. End-user may request for a demonstration with the Least Calculated Bid (LCB) / Single Calculated Bid (SCB) during post-qualification. Two (2) samples of actual unit must be provided by the LCB/SCB within seven (7) calendar days after the Opening of Bids, for approval by the End-user, as part of the post-qualification and prior to award. If approved by End-user, one (1) sample will be retained for reference of the units to be delivered and will be part of the full delivery. Supplied with comprehensive, traceable, calibration certificates. Supplier must provide product brochures. At least two (2) years warranty of parts and services. Must be delivered to DOST-ASTI. Must be compatible to DOST-ASTI arQ datalogger Firmware 3.0 and latter. |

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| Section VII. Technical Specifications | FROM: | TO: |
| | <p>2 MULTIPARAMETER WEATHER SENSOR</p> <p>D. Notes</p> <ol style="list-style-type: none"> Supplier must provide detailed mechanical drawing and data sheet of the connectors for approval by the End-user prior to delivery. End-user may request for a demonstration with the Least Calculated Bid (LCB) / Single Calculated Bid (SCB) during post-qualification. LCB / SCB must provide two (2) samples of actual unit for approval by the End-user as part of the post-qualification and prior to award. If approved by End-user, one (1) sample will be retained for reference of the units to be delivered. Supplied with comprehensive, traceable, calibration certificates. At least two (2) years warranty of parts and services. Must be delivered to DOST-ASTI. Must be compatible to DOST-ASTI arQ datalogger Firmware 3.0 and latter. <p>3 SEA SURFACE TEMPERATURE</p> <p>C. Notes</p> <ol style="list-style-type: none"> Supplier must provide detailed mechanical drawing and data sheet of the connectors for approval by the End-user prior to delivery. End-user may request for a demonstration with the Least Calculated Bid (LCB) / Single Calculated Bid (SCB) during post-qualification. LCB / SCB must provide two (2) samples of actual unit for approval by the End-user as part of the post-qualification and prior to award. If approved by End-user, one (1) sample will be retained for reference of the units to be delivered. Supplied with comprehensive, traceable, calibration certificates. At least two (2) years warranty of parts and services. Must be delivered to DOST-ASTI. Must be compatible to DOST-ASTI arQ datalogger Firmware 3.0 and latter. <p>4 WIND SENSOR</p> <p>B. Notes</p> <ol style="list-style-type: none"> End-user may request for a demonstration with the Least Calculated Bid (LCB) / Single Calculated Bid (SCB) during post-qualification. LCB / SCB must provide two (2) samples of actual unit for approval by the End-user as part of the post-qualification and prior to award. If approved by End-user, one (1) sample will be retained for reference of the units to be delivered. Supplied with comprehensive, traceable, calibration certificates. At least one (1) year warranty of parts and services Must be delivered to DOST-ASTI. Must be compatible to DOST-ASTI arQ datalogger Firmware 3.0 and latter. | <p>2 MULTIPARAMETER WEATHER SENSOR</p> <p>D. Notes</p> <ol style="list-style-type: none"> Supplier must provide detailed mechanical drawing and data sheet of the connectors for approval by the End-user prior to delivery. End-user may request for a demonstration with the Least Calculated Bid (LCB) / Single Calculated Bid (SCB) during post-qualification. 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Two (2) samples of actual unit must be provided by the LCB/SCB within seven (7) calendar days after the Opening of Bids, for approval by the End-user, as part of the post-qualification and prior to award. If approved by End-user, one (1) sample will be retained for reference of the units to be delivered and will be part of the full delivery. Supplied with comprehensive, traceable, calibration certificates. Supplier must provide product brochures. At least two (2) years warranty of parts and services. Must be delivered to DOST-ASTI. Must be compatible to DOST-ASTI arQ datalogger Firmware 3.0 and latter. |

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| Section VII. Technical Specifications | FROM: | TO: |
| | <p>5 RAIN GAUGE</p> <p>C. Notes</p> <ol style="list-style-type: none"> 1. Supplier must provide detailed mechanical drawing and data sheet of the connectors for approval by the End-user prior to delivery. 2. End-user may request for a demonstration with the Least Calculated Bid (LCB) / Single Calculated Bid (SCB) during post-qualification. 3. LCB / SCB must provide two (2) samples of actual unit for approval by the End-user as part of the post-qualification and prior to award. If approved by End-user, one (1) sample will be retained for reference of the units to be delivered. 4. Supplied with comprehensive, traceable, calibration certificates. 5. At least two (2) years warranty of parts and services. 6. Must be delivered to DOST-ASTI 7. Must be compatible to DOST-ASTI arQ datalogger Firmware 3.0 and latter. <p>6 SOIL MOISTURE AND TEMPERATURE SENSOR</p> <p>B. Notes</p> <ol style="list-style-type: none"> 1. Supplier must provide detailed mechanical drawing and data sheet of the connectors for approval by the End-user prior to delivery. 2. End-user may request for a demonstration with the Least Calculated Bid (LCB) / Single Calculated Bid (SCB) during post-qualification. 3. LCB / SCB must provide two (2) samples of actual unit for approval by the End-user as part of the post-qualification and prior to award. If approved by End-user, one (1) sample will be retained for reference of the units to be delivered. 4. Supplied with comprehensive, traceable, calibration certificates. 5. At least two (2) years warranty of parts and services. 6. Must be delivered to DOST-ASTI. 7. Must be compatible to DOST-ASTI arQ datalogger Firmware 3.0 and latter. <p>7 SUNSHINE DURATION SENSOR CONNECTOR</p> <p>B. Notes</p> <ol style="list-style-type: none"> 1. Supplier must provide detailed mechanical drawing and data sheet of the connectors for approval by the End-user prior to delivery. 2. End-user may request for a demonstration with the Least Calculated Bid (LCB) / Single Calculated Bid (SCB) during post-qualification. 3. LCB / SCB must provide two (2) samples of actual unit for approval by the End-user as part of the post-qualification and prior to award. If approved by End-user, one (1) sample will be retained for reference of the units to be delivered. 4. Supplied with comprehensive, traceable, calibration certificates. 5. At least two (2) years warranty of parts and services. 6. Must be delivered to DOST-ASTI. 7. Must be compatible to DOST-ASTI arQ datalogger Firmware 3.0 and latter. | <p>5 RAIN GAUGE</p> <p>C. Notes</p> <ol style="list-style-type: none"> 1. Supplier must provide detailed mechanical drawing and data sheet of the connectors for approval by the End-user prior to delivery. 2. End-user may request for a demonstration with the Least Calculated Bid (LCB) / Single Calculated Bid (SCB) during post-qualification. 3. 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| Section VII. Technical Specifications | FROM: | TO: |
| | <p>8 SUNSHINE DURATION SENSOR CABLE</p> <p>B. Notes</p> <ol style="list-style-type: none"> 1. Supplier must provide detailed mechanical drawing and data sheet of the connectors for approval by the End-user prior to delivery. 2. End-user may request for a demonstration with the Least Calculated Bid (LCB) / Single Calculated Bid (SCB) during post-qualification. 3. LCB / SCB must provide two (2) samples of actual unit for approval by the End-user as part of the post-qualification and prior to award. If approved by End-user, one (1) sample will be retained for reference of the units to be delivered. 4. Supplied with comprehensive, traceable, calibration certificates. 5. At least two (2) years warranty of parts and services. 6. Must be delivered to DOST-ASTI. 7. Must be compatible to DOST-ASTI arQ datalogger Firmware 3.0 and latter. <p>9 MULTIPARAMETER WATER QUALITY SENSOR</p> <p>A. General</p> <ol style="list-style-type: none"> 1. Parameters Measured: <ul style="list-style-type: none"> - Chlorophyll - Turbidity - PH - Algae Phycoerythrin 2. Communications: <ul style="list-style-type: none"> - Computer Interface: Bluetooth wireless technology (between sonde and handheld or computer with KOR software), USB - Output Options: USB with signal output adapter (SOA); RS-232 & SDI-12 with DCP-SOA 3. Logging Capabilities: Yes 4. Medium: Fresh, sea or polluted water 5. Operating Temperature: -5 to +50C 6. Depth: 0 to 250m 7. Sample Rate: Up to 4 Hz 8. Sensor Ports: Seven (7) 9. Waterproof: Yes <p>B. Notes</p> <ol style="list-style-type: none"> 1. Supplier must provide detailed mechanical drawing and data sheet of the connectors for approval by the End-user prior to delivery. 2. End-user may request for a demonstration with the Least Calculated Bid (LCB) / Single Calculated Bid (SCB) during post-qualification. 3. LCB / SCB must provide two (2) samples of actual unit for approval by the End-user as part of the post-qualification and prior to award. If approved by End-user, one (1) sample will be retained for reference of the units to be delivered. 4. Supplied with comprehensive, traceable, calibration certificates. 5. At least two (2) years warranty of parts and services. 6. Must be delivered to DOST-ASTI. 7. Must be compatible to DOST-ASTI arQ datalogger Firmware 3.0 and latter. | <p>8 SUNSHINE DURATION SENSOR CABLE</p> <p>B. Notes</p> <ol style="list-style-type: none"> 1. Supplier must provide detailed mechanical drawing and data sheet of the connectors for approval by the End-user prior to delivery. 2. End-user may request for a demonstration with the Least Calculated Bid (LCB) / Single Calculated Bid (SCB) during post-qualification. 3. Two (2) samples of actual unit must be provided by the LCB/SCB within seven (7) calendar days after the Opening of Bids, for approval by the End-user, as part of the post-qualification and prior to award. If approved by End-user, one (1) sample will be retained for reference of the units to be delivered and will be part of the full delivery. 4. Supplied with comprehensive, traceable, calibration certificates. 5. Supplier must provide product brochures. 6. At least two (2) years warranty of parts and services. 7. Must be delivered to DOST-ASTI. 8. Must be compatible to DOST-ASTI arQ datalogger Firmware 3.0 and latter. <p>9 MULTIPARAMETER WATER QUALITY SENSOR</p> <p>A. General</p> <ol style="list-style-type: none"> 1. Parameters Measured: <ul style="list-style-type: none"> - Chlorophyll - Turbidity - Dissolved oxygen - Conductivity 2. Communications: <ul style="list-style-type: none"> - USB, SDI-12, RS232 Modbus, RS485 Modbus and RS232 TT 3. Sampling Rate: <ul style="list-style-type: none"> - 1 Hz minimum 4. Sensor Ports: At least four (4) 5. Water Proof: Yes 6. Operating Temperature: -5 to +50C 7. Depth: At least 200 meters 8. All sensor parameters should be extracted simultaneously. <p>B. Notes</p> <ol style="list-style-type: none"> 1. Supplier must provide detailed mechanical drawing and data sheet of the connectors for approval by the End-user prior to delivery. 2. End-user may request for a demonstration with the Least Calculated Bid (LCB) / Single Calculated Bid (SCB) during post-qualification. 3. One (1) sample of actual unit must be provided by the LCB/SCB within seven (7) calendar days after the Opening of Bids, for approval by the End-user, as part of the post-qualification and prior to award. If approved by End-user, sample will be retained for reference of the units to be delivered and will be part of full delivery. 4. Supplied with comprehensive, traceable, calibration certificates. 5. Supplier must provide brochures. 6. At least two (2) years warranty of parts and services. 7. Must be delivered to DOST-ASTI. 8. Must be compatible to DOST-ASTI arQ datalogger Firmware 3.0 and latter. |

B. RESPONSE TO QUERIES


| QUERY/ISSUE | BAC/END-USER RESPONSE/CLARIFICATION |
|----------------|-------------------------------------|
| Not applicable | |

Please be guided accordingly.

Prepared by:


KATHERINE B. RAMOS
Head, BAC Secretariat 

Approved by:


PEDRITO B. MANGHAS
Chairperson BAC-1 