NOTICE OF PROPOSED PROCUREMENT

Solicitation number: 30005160

Nature of Requirements: SGII Multiparameter

Description: DFO has a requirement of New Doppler Current Profiling System with onboard Wave and Tide, Turbidity, Oxygen, Pressure, Conductivity, Temperature sensors.

Trade Agreement: N/A

Tendering Procedures: This request is reserved for holders of Supply Arrangement # **E60PV-19EQUI** only, for the purchase of laboratory and scientific equipment, parts and accessories, services and supplies.

Competitive Procurement Strategy: A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price will be awarded the contract.

Comprehensive Land Claim Agreement: N/A

Only Suppliers currently pre-qualified on Supply Arrangement E60PV-19EQUI have been invited to bid.

As a requirement of the Supply Arrangement, this notice is published on Government Electronic Tendering Service (GETS) for a period of 40 calendar days. The closing date published on this notice identifies how long the notice will be published. For the closing date of any solicitation under the supply arrangement, invited suppliers should refer to the solicitation documents.

Suppliers that do not have a Supply Arrangement for the supply of Laboratory and Scientific Equipment, Parts and Accessories, Services and Supplies with Public Works and Government Services Canada, cannot submit a bid. Any bids received from suppliers not pre-qualified on the Supply Arrangement will not be evaluated.

Suppliers may qualify under Supply Arrangement E60PV-19EQUI for Laboratory and Scientific Equipment, Parts and Accessories, Services and Supplies, at any time. Interested suppliers should download solicitation document E60PV-19EQUI from Canada Buys (SAP Ariba) and submit a response as per the requirements of the Request for Supply Arrangement.

The following SA Holders have been invited to submit a proposal.

1. Alpha Controls & Instrumentation Inc
2. ATS-Scientific Inc
3. Bio-Rad Laboratories (Canada) Ltd.
4. Canadawide Scientific
5. CCR Process Products
6. Delta Photonics Inc.
7. EGE Consultant
8. Fisher Scientific
9. Geneq Inc
10. High Speed Imaging
11. Hoskin Scientific Limited
12. Mandel Scientific Company Inc.
13. Montréal Biotechnologies Inc.
14. OPTI-TECH Scientific Inc.

15. Phytronix Instruments Inc.
16. Safe Leaf Extract Solutions Inc.
17. TekniScience Inc
18. VWR International Ltd.

Description of the requirement:

41103300	Fluid Mechanics Equipment	41103327	Current Meter

Item#	Description	Quantity
001	90m RS232/AiCaP Pressure Sensor	1
002	0-300m range 4835 integrated Oxygen optode. Compact fully integrated sensor for measuring O2 concentration and temperature in shallow water.	1
003	0-300m integrated Turbidity Sensor with 0-2500 NTU range	1
004	300m Doppler Current Profiling Sensor SW, AiCaP protocol compatible + RS232 interface	1
005	Integrated Wave and Tide Sensor, 30m, RS232 and AiCaP, Smart sensor technology - plug and play with Calibration coefficients are stored in the sensor	1
006	300m SeaGaurd Shallow Water (i.e.SW) (logger, hub card, RTC, pressure case, stud and handle). Long-term calibration stability and non-stirring sensitive construction	1
007	300m Conductivity sensor, ultrahigh accuracy: 0.0004S/m	1

Mandatory technical criteria:

Mandatory Criteria	Technical Description	Page number in reference to Bid	Comply Yes/No
M1	**Item 001 - Pressure Sensor** Must have the following specifications: 1. Smart Sensor technology Plug and Play 2. Sensor Calibration coefficients must be stored in the sensor 3. Minimal and simple maintenance needs 4. Low current drain 5. Power: 5 to 14VDC, 50mA max 6. Output formats: AiCaP CANbus, RS-232/RS-422 7. Short update interval: 1 seconds to 255 minutes		

	8. 2Hz and 4Hz sampling frequency 9. New updated wave parameters every 1 second 10. 256, 512, 1024 & 2048 samples 11. Outputs: Pressure, Temperature, Tide pressure, Tide Level, Significant wave height, Maximum wave height, Mean Periode, Mean Zerocrossing Periode, Energy Periode, Steepness, Irregularity of sea state, Cut-off frequency, Pressure time series, Last pressure sample index, Wave spectrum 12. Real-time XML output 13. 90m depth		
M2	**Item 002 - Oxygen Optode** Must have the following specifications: 1. plug and play 2. Measurement Range: 0 – 1000 µM1) 0 - 300% 3. Resolution:<0.1uM 4. Accuracy: <4uM or 3% 5. Temp Range: -5C to 40C 6. Resolution: 0.01C 7. Supply voltage: 5 to 14Vdc 8. Sampling interval: 2 sec – 255 min 9. Field drift: <0.3% 10. Operating depth: 0 – 300m (0 – 984.3ft)		
M3	**Item 003 - Turbidity Sensor** Must have the following specifications: 1. plug and play 2. 0-2500 FTU range 3. 300m depth rating 4. On board Calibration 5. Easily calibrated 6. Easy programming and data offload features		
M4	**Item 004 - 300m Shallow Water Doppler Current Profiler** Must have the following specifications 1. Built-in solid state 3-axis tilt compensated compass. Heading and tilt compensation for each ping. 2. Insensitive to fouling. 3. Low maintenance needs.		

	4. Output interval from 30 seconds to 2 hours. 5. RS-232/RS-422 output for integration to most third party Dataloggers. 6. Configurable output engineering data for easy integration. 7. Cell size selectable from 0,5 to 5 meters. 8. Up to 150 individual cells divided into three columns 9. Acoustic Frequency: 600 KHz 10. Velocity accuracy: <0.3cm/s 11. Ping rate: up to 10Hz 12. Output Interval: 30sec – 2hrs 13. blanking – 1meter max 14. 4 beams 15. Beam angle: 25 degrees		
M5	**Item 005 - Wave and Tide Sensor** Must have the following specifications 1. Smart sensor technology 2. plug and play 3. Calibration coefficients are stored in the sensor 4. Low maintenance needs 5. Low current drain 6. Output formats 5218: AiCaP CAN bus, RS-232 7. Output formats 5218R: RS-422 8. Selectable interval from 1 sec. to 255 min. 9. Tidal averaging period: 10 sec. to 8 min. 10. 2Hz and 4Hz sampling frequency • 256,512,1024 and 2048 samples 11. New updated wave parameters every 1 sec. • Output parameters: see overleaf • 12. Real-time XML output • Measurement range: 0-400kPa 13. Maximum operating depth: 90m 14. Operating temp: -5C to 40C 15. Supply voltage: 5 to 14Vdc 16. Resolution:<0.0001% FSO 17. Accuracy: ±0.02% FSO 18. Temp Resolution: 0.001C 19. Temp Accuracy: +/- 0.01C		
M6	**Item 006 - 0-300m Shallow Water Datalogger** Must have the following specifications		

	1. Integrated logger in a single platform 2. Working range: 0 - 300m 3. Down to 2 seconds recording interval 4. 2 GByte storage capacity 5. Battery (15Ah) - Expandable to 70Ah 6. Able to integrate data from Sensor List below: a. Oxygen b. Pressure, Tide and wave c. Conductivity d. Temperature e. Turbidity		
M7	**Item 007 - 300m Conductivity Sensor** Must have the following specifications 1. Smart Sensor for easy integration with • 2. Easy integration with most loggers or systems • 3. Direct readout of engineering data • 4. Rugged and robust with low maintenance needs • 5. Output format AiCaP CANbus, RS-232/RS-422 • 6. Output Parameters: Conductivity, Temperature, Salinity, Density and Sound of Speed, Raw data 7. Accuracy: +/- 0.004mS/cm 8. Temp Range: -5C to 40C 9. Sampling interval: 2 sec – 255 min 10. Supply voltage: 5 to 14VDC 11. Low current drain: 0.16 + 48 mA/S where S is sampling interval in seconds		

The responsive bidder already holding a Supply arrangement for Laboratory and Scientific Equipment, Parts and Accessories, Services and Supplies from Public Works and Government Services Canada who meets the mandatory technical criteria with the lowest aggregate price will be recommended for contract award.

Contracting Authority:

Name: Meenu Bhatia
E-Mail: DFO.Tenders-Soumissions.MPO@dfo-mpo.gc.ca & meenu.bhatia@dfo-mpo.gc.ca