

TECHNICAL SPECIFICATIONS

Contract title: Supply, Installation and Training of Smart/Data Buoy

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1. Item number	2. Specifications required
1	<p><u>Data Buoy</u></p> <ul style="list-style-type: none">• Real time transmission of data and access via a web-based platform• Global Positioning System (GPS) tracking for real time tracking of smart buoy.• Solar modules and battery bank to support autonomous operations for at least 7 days without sunlight.• Battery float charger and battery harness,• Direct connect USB PC cable.• Sacrificial zinc anode for data buoy. <p><u>Sensors</u></p> <ul style="list-style-type: none">• Real time, remote sensing, in-situ monitoring• Underwater spherical PAR sensor with micro amp output.

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	<ul style="list-style-type: none"> • Underwater cable resistance • Temperature • Salinity • Turbidity • Biochemical oxygen demand • Nitrates • Phosphates • pH • Oil/hydrocarbons • Dissolved Oxygen • Chlorophyll a • Chlorophyll levels - phytoplankton population/ distribution gives information on a water body's health, composition, and ecological status • Conductivity

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	<p><u>Post Installation requirements</u></p> <ul style="list-style-type: none"> • 12 months warranty • 3 months maintenance • Training: <ul style="list-style-type: none"> ✓ Data retrieval ✓ Maintenance of smart buoy, sensors and mooring requirements ✓ Calibration to instrumentation to include sensors and sensor replacement best practices.