



Republic of the Philippines
Department of Transportation (DOTr)
MARITIME INDUSTRY AUTHORITY

PURCHASE ORDER

Supplier: WINGS TECHNOLOGY ENTERPRISE, INC.	P.O. No.: 2020-12-105
Address: Unit 905 Cityland Herrera Tower, VA Rufino cor. Valero Streets, Salcedo Village, Makati City	Date: December 29, 2020
TIN: 006-875-430-000	Mode of Procurement: Public Bidding No. 2020-03

Gentlemen:
Please furnish this Office the following articles subject to the terms and conditions contained herein:

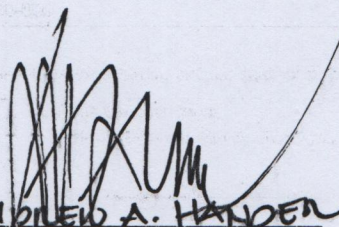
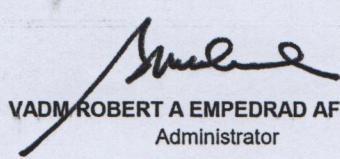
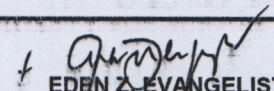
Place of Delivery: MARINA Central Office A. Bonifacio Drive cor 20th St., Port Area, Manila	Delivery Term: Within thirty (30) days upon receipt of the Notice to Proceed
Date of Delivery:	Payment Term: Within thirty (30) working days upon submission of complete documents including, delivery, testing and upon issuance of Inspection and Acceptance Report by the authorized/designated representatives of MARINA
	Warranty: One (1) year warranty on all components.
	Other conditions: - During the warranty period, the Supplier shall provide technical personnel, free of charge, to service the system and all its components/peripherals whenever hardware and/or related problem should occur. Should there be a need to pull-out a unit for repair: a replacement unit with at least the same specifications must be provided by the supplier before actual pull-out of the malfunctioned unit. -The supplier must provide a training program and technology transfer to the MARINA designated technical staff.

Item No.	Unit	Description	Quantity	Unit Cost	Amount
1	unit	Supply, Delivery and Installation of brand new Earthquake Recording Instrument (ERI) for the MARINA Central Office building Brand Name: Suricat (made in Italy) Manufacturer: Moho Science and Technology <u>1. SPECIFICATIONS:</u> <u>Digitiser & Recording</u> Digitiser Type -32-bit ADC, differential or single-ended Data Channels -3(minimum) Full-scale range -40Vpp (suited to $\pm 10V$ differential output sensors) <u>Noise and Dynamic Range</u> Noise level -(shorted input) Less than 1 LSB RMS noise in a 24-bit system @40sps Sensitivity -419430.4 counts per Volt Dynamic range -138dB @ 100sps (144dB @40sps, 127dB @4000sps) <u>Timing</u> Reference -Data is time stamped every second from GPS receiver Accuracy -RMS(Root-Mean-Square) 30 nanoseconds <u>Controls</u> User Interface -In-built LCD with 4-line text display and 4-button input File recording -Continuous (always on), Histogram (always on) Trigger & Alarm -STA/LTA triggering, Level (High & Low) triggering (3D or 1D); System Alarms Calibration signal generator -Variable amplitude/frequency step/sine signal Mass Control -Calibrate enable, Mass Lock, Unlock & Centre commands <u>Data Storage</u> Flash memory type -SD card/SLC NAND Included storage -32GB File system -FAT32, readable by Windows, Mac & Linux OS Data format -24-bit MiniSEED (with data-less station information files; station.xml export) <u>Power</u> DC input voltage range -11.5 to 24V Internal Battery -(up to 8Hrs Backup Power) <u>2. Software for Data Analysis</u> <u>3. Enclosure</u> <u>4. Set of Desktop for monitoring</u> <u>5. Charger, Alarm & Ethernet Wall Box</u> <u>6. GPS Cable and GPS Aerial</u> <u>7. Integration with annunciation and alarm system</u> <u>8. Equipment should be installed at the most suitable area in the building in accordance with the guidelines of DPWH.</u>	1	650,000.00	650,000.00

Total Amount in Words **SIX HUNDRED FIFTY THOUSAND PESOS**

In case of failure to make the full delivery within the time specified above, a penalty on one-tenth (1/10) of one percent for every day of delay shall be imposed on the underdelivered item/s.

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<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Conforme:</p>  <p>ANDREW A. HANDEN <small>Signature over Printed Name of Supplier</small> Date: <u>03/16/2021</u></p> </div> <div style="width: 45%; text-align: center;"> <p>Very truly yours,</p>  <p>VADM ROBERT A EMPEDRAD AFP (Ret) Administrator</p> </div> </div> <div style="text-align: right; margin-top: 20px;"> <p><i>ma 1/13/21</i></p> </div>			
Funds Available:  EDEN Z. EVANGELISTA OIC - Accounting Division		Obligation Request No. <u>06-102101-2020-12-0012</u> Date: <u>12/1/20</u> Amount: <u>650,000.00</u>	