

## REPUBLIC OF THE PHILIPPINES Department Of Health



## National Center for Mental Health

## LIST OF ITEMS

PUBLIC BIDDING FOR THE SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF BRAND-NEW POLYSOMNOGRAPHY MACHINE FOR SLEEP CLINIC CY 2024
IB No. E-009-2024-PB

ITEM CODE	ITEM DESCRIPTION	QTY	UOM	UNIT PRICE	TOTAL PRICE
PM01-2024	Supply, Delivery, Installation, Testing and Commissioning of a Brand-New Polysomnography Machine for Sleep Clinic CY 2024	1	unit	₱ 5,091,166.66	₱ 5,091,166,66
	GENERAL SPECIFICATIONS:  1) Designed for the acquisition of EEG and Polysomnography (PSG) data  2) Software allows recording, displaying, analysis, printing, and storage of physiological signals to assists in the diagnosis of various sleep disorders and sleep related respiratory disorders.  3) Automated analysis of physiological signals.  4) Audio/visual alert for user-defined threshold on calibrated DC input.				
	5) Sleep report templates are provided that summarize the recorded and scored sleep data ranges for trended values.				
	AMPLIFIER SPECIFICATIONS:  1) AC Channels: 64 AC Channels 2) Referential Inputs: 40 referential (additional 24 referential channels programmable to differential channels) 3) Programmable up to 12 Differential inputs 4) With 6 Sensor Inputs dedicated for chest effort, abdominal effort, snore, airflow, pressure, and position sensors 5) With up to 11 derived traces 6) DC Channels up to 16 channels 7) With 8-bit TTL digital timer 8) Pulse Oximetry monitoring includes SpO2, Pulse Rate,				

"There is no Health without Mental Health"





Photoplethysmogram (PPG), and Pulse Quality  9) Input Impedance - Common Mode ≥ 1 G Ω	
<ul> <li>10) Input Impedance Differential Mode: 40 M Ω / 280pF +/- 20%</li> <li>11) Input Noise - ≤ 2 uV pk-to-pk (0.1Hz to 70 Hz), ≤ 40nVsqrt (Hz) wideband</li> <li>12) Common Mode Rejection Ratio (CMMR) ≥ 106 dB min</li> <li>13) Sampling Rates - 256, 512, 1024, 2048, 4096</li> <li>14) Bandwidth - DC to ~ 1/3 of sample rate selected or 1600 Hz max. programmable (default 0.08Hz)</li> <li>15) Input Signal Range - 20mV pk-to-pk, +/-0.3VDC</li> <li>HOST INTERFACE</li> <li>1) With network connection of Gigabit Ethernet DHCP</li> <li>2) Direct Connection: USB 2.0 Hi-Speed, Gigabit Ethernet</li> <li>ENVIRONMENTAL CONDITIONS Operating Environmental Limits</li> <li>1) Temperature: 10°C to 30°C (50°F to 86°F)</li> <li>2) Relative Humidity: 30%-75%</li> </ul>	
3) Atmospheric Pressure: 70 kPa–106 kPa	
1) Temperature: -25°C to 60°C (-13°F to 140°F) 2) Relative Humidity: 10%–95% 3) Atmospheric Pressure - 50 kPa to 106 kPa  AMPLIFIER AND BASE UNIT FEATURES AND USAGE 1) Amplifier use a proprietary 3-dimensional body position pod to gather and generate position and activity data from the patient. 2) The base unit provides a potential equalization conductor 3) The amplifier has luer lock allows the connection of a cannula to allow recording of airflow via pressure sensor.	

	SOFTWARE FEATURES	
	1) Capable to determine which	
	toolbars appear on screen	
	2) Acquisition Mode must include the	
	following (Montage, Note,	
	Protocol, Video, Camera,	
	Workflow, Stopwatch, Sleep	
	Summary, Flow Volume Loop,	
	Status Bar, Dock toolborn, Devices	
	Status Bar, Dock toolbars). Review	
	mode must include the following	
	(Montage, Note, Video, Review,	
	Staging, Study, Sleep Summary,	1
	Flow Volume Loop, Status Bar,	
	Dock Toolbars)	
	3) With Flow-Volume Loop Toolbar	
	which displays exhaled flow plotted	
	upwards and exhaled volume to the	
	right.	
	4) With Stopwatch Toolbar which	
	measures and displays elapsed time	
	or event duration.	
	5) With Heads Up Display Toolbar	
	used to display parameters recorded	
	during collection or in review	
	6) With Frequency Tool used to	
	display FFT information and data	
	statistics in the frequency domain	
	during review. The Spectrum graph	
	and detail options are configurable	
	and can be saved as an event for	
	later review or copied to the	
	clipboard as an image for insertion	
	into another application.	
	7) Capable to create and/or edit	
	montage (Montage Creation Tool)	
	8) With Montage Conversion Tool	
	used to convert a montage originally	
	created for one headbox to work	
	with a different one (Import /	
	Export).	
	9) With Sleep event analyzers	
	designed to help medical	
	professionals and technologists with	
	the identification of events of	
1	interest in study recordings. These	
	analyzers are set to factory default	V V
	settings and can be customized.	
	10) The following analyzers are	
	available: aEEG, Amplitude,	
	Apnea, Arousal, Auto-Staging,	
	Bradycardia, Breath Rate, Central	
	Apnea, DSA, Data Trends, Heart	
1	Rate, Hypopnea, Limb Movement,	
	Obstructive Apnea, Oxygen	
	Desaturation, QEEG, Snoring,	
4	Choring, Contracting	

Stellate ICTA-D, Stellate ICTA-S, Tachycardia	
SAFETY STANDARD OF	
NORMATIVE REFERENCES (Certified True Copy) IEC 60601-1:2012 - General Safety Third Edition CAN / CSA-C22.2 No. 60601-1: 08(R2013) +C2:2011 IEC 60601-1-6:2010 - Usability Third Edition IEC 62366:2007, Edition 1.0 IEC 60601-2-26:2012 - Electroencephalographs Third Edition IEC60601-2-61:2011 - Pulse Oximeters EN ISO 80601-2-61:2011, Edition 1	
EMC STANDARD OF COMPLIANCE AND NORMATIVE REFERENCES (Certified True Copy) IEC 60601-1-2:2014 – EMC Fourth Edition IEC 61000-3-2:2014, Fourth Edition IEC 61000-3-2 Harmonic emissions – Class A IEC 61000-3-3:2013, Third Edition Voltage Fluctuations/ Flicker emissions CISPR11, Edition 5.0 A1:2010 RF	
emissions – Group 1, Class A IEC 61000-4-2:2008, Second Edition IEC 61000-4-2 Electrostatic Discharge (ESD) ±8 kV contact (to the patient lead and exposed metal), ±15 kV air IEC 61000-4-3 Third Edition with A1:2007+A2:2010 IEC 61000-4-3, 3 Vrms, 80 MHz to 2.7 GHz IEC 61000-4-4:2012, Third Edition, fast transient/burst ±2 kV power supply ±1 kV IEC 61000-4-5:2014, Third Edition IEC 61000-4-5 ±1 kV Surge differential mode ±2 kV common mode IEC 61000-4-6 Second Edition with A1:2004 + A2:2006 IEC 61000-4-6, 150 kHz to 80 MHz IEC 61000-4-8; 2009, Second Edition IEC 61000-4-8, Power frequency (50/60 Hz) magnetic field, 30 A/m	

INCLUDED ACCESSORIES  1) Base unit 2) Breakout Box	
2) Breakout to Base Cable 4) Replacement Fuse for Base Unit 5) USB-to-Ethernet Adaptor 6) Quantum Nonin Oximeter Adapter Cable 7) Nonin Reusable Soft Sensor, Medium, model 8000SM 8) Patient Event Button, 5ft (1.5m) 9) Isolation Transformer 10) Nasal Cannulas 72in (183cm) 11) Airflow Thermistor 78in (198cm) 12) Snoring Sensor 78in (198cm) 13) Gold EEG Cup Electrodes 10MM, 1.5M, TP 14) Body Positioning Pod 15) Reusable Belt - Small Abdomen 78" cable length 16) Reusable Belt - Small Thorax 78" cable length 17) Reusable Belt - Medium Abdomen 78" cable length 18) Reusable Belt - Medium Thorax 78" cable length 19) Large Abdomen 78" cable length 20) Large Thorax 78" cable length	
<ol> <li>1) CTC/Notarized certification of current and valid Authorized or Exclusive Distributorship.</li> <li>2) CTC/Notarized certificate of current and valid Manufacturer's compliance with ISO 13485.</li> <li>3) Notarized certification from the manufacturer stating that the equipment is brand new, unused and not a discontinued model or was listed in the market recall.</li> <li>4) Notarized certificate guaranteeing the availability on the supply of spare parts ten (10) years from end of production. A certification must be issued by the manufacturer for the bidder.</li> <li>5) Notarized certification that the bidder must be in the business in</li> </ol>	

	GRAND TOTAL:	₱ 5,091,166.66
Manual in English Language upon delivery of the equipment.		
Service Manual in English Language and two (2) sets of User		
provide Manuals: two (2) sets of		
14) CTC/Notarized certification to		
hospital.		
maintenance personnel of the		
applications training and certification for end users and		
supplier/bidder shall provide		
13) Notarized certification that the		
period.		
schedule within the warranty		
maintenance and/or calibration		
12) Bidder must provide preventive		
The warranty shall commence upon the acceptance of the end user.		
maintenance, and/or calibration.		
maintenance, preventive		
and services that include corrective		
two (2) years warranty for parts		
the bidder/supplier shall provide a		
11) Notarized Warranty certificate that		
the warranty should not be affected with a change of distributor.		
country of origin of the unit that		
Philippine consulate from the		
manufacturer authenticated by the		
10) Notarized certification from the		
preventive maintenance of the unit.		
authority for corrective and		
supplier has the capability or		
9) Notarized certification that the		
delivery.		
certificate for the equipment during		
current and valid calibration		
8) The winning bidder shall provide		
Premarket Notification (PMN) or CE Mark Approval.		
manufacturer's approved US FDA		
7) Notarized Certificate of		
solution.		
system or machine is not a retrofit		
6) Notarized certification that the		
five (5) years.		

Submitted by:
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Recommending Approval:
ALDEN C. CUYOS, MD, FPPA, IFAPA, MMHoA Chairperson, BAC for Equipment
Approved By:
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