

## REPUBLIC OF THE PHILIPPINES Department of Health

## NATIONAL CENTER FOR MENTAL HEALTH

Nueve de Febrero Street, Mandaluyong City, Philippines



## BIDS AND AWARDS COMMITTEE

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## Section VI Schedule of Requirements

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

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

				<b>Delivery Site</b>		Delivery
Item No.	Description	Qty	OFFICE	FACILITY	ADDRESS	Period and Terms of Payment
1	Supply, Delivery, Installation, Testing and Commissioning of a Brand-New Polysomnography Machine for Sleep Clinic CY 2024  GENERAL SPECIFICATIONS:	1	Sleep Clinic	Neurological Room, Pavilion 11	National Center for Mental Health	a. One-time delivery within thirty (30) calendar days upor receipt o Notice to Deliver
	<ol> <li>Designed for the acquisition of EEG and Polysomnography (PSG) data</li> <li>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.</li> <li>Automated analysis of physiological signals.</li> <li>Audio/visual alert for user-defined threshold on calibrated DC input.</li> <li>Sleep report templates are provided that summarize the recorded and scored sleep data</li> </ol>					b. Terms of payment are least 30 days from receipt of Sales invoice

ranges for trended values.			
AMPLIFIER SPECIFICATIONS:			
<ol> <li>AC Channels: 64 AC Channels</li> <li>Referential Inputs: 40 referential (additional 24 referential channels programmable to differential channels)</li> <li>Programmable up to 12 Differential inputs</li> <li>With 6 Sensor Inputs dedicated for chest effort, abdominal effort, snore, airflow, pressure, and position sensors</li> <li>With up to 11 derived traces</li> <li>DC Channels up to 16 channels</li> <li>With 8-bit TTL digital timer</li> <li>Pulse Oximetry monitoring includes SpO2, Pulse Rate, Photoplethysmogram (PPG), and Pulse Quality</li> <li>Input Impedance - Common Mode ≥ 1 G Ω</li> <li>Input Impedance - Differential Mode: 40 M</li> </ol>			
<ul> <li>Ω / 280pF +/- 20%</li> <li>11) Input Noise - ≤ 2 uV pkto-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</li> </ul>			

17		 		411
	2) Direct Connection: USB			
	2.0 Hi-Speed, Gigabit			
	Ethernet			
	ENVIRONMENTAL CONDITIONS			
	CONDITIONS			
	Operating Environmental			
	Limits			
	2			
	1) Temperature: 10°C to			
	30°C (50°F to 86°F)			
	2) Relative Humidity:			
	30%-75%			
	3) Atmospheric Pressure:			
	70 kPa–106 kPa			
	TRANSPORT AND			
	STORAGE			
	STORIGE			
	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			
	30 KPa to 100 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	)		
	SOFT WARE PEATORES			
	1) Capable to determine			
	which toolbars appear		)	
	on screen			
	2) Acquisition Mode must			
	include the following			
	(Montage, Note, Protocol, Video,			
	Protocol, Video, Camera, Workflow,			
	Stopwatch, Sleep			
	Summary, Flow			
1				

		Volume Loop, Status				
		Bar, Dock toolbars).				
		Review mode must				
	l l	include the following				
		(Montage, Note,				
		Video, Review,				
		Staging, Study, Sleep				
		Summary, Flow				
			1 1			
		Volume Loop, Status				
	2)	Bar, Dock Toolbars)				
	3)					
		Loop Toolbar which				
		displays exhaled flow				
1		plotted upwards and				
1		exhaled volume to the				
1		right.				
1	(4)	With Stopwatch				
	1	Toolbar which	i ii			
		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)					
	0)	used to display FFT				
		information and data				
		statistics in the				
		frequency domain				
		during review. The				
		Spectrum graph and	i i			
		detail options are				
		configurable and can				
		be saved as an event for				
		later review or copied	1			
		to the clipboard as an	1			
1		image for insertion into				
-		another application.				
1	7)	*				
		and/or edit montage				
		(Montage Creation				
		Tool)				
	8)					
		Conversion Tool used				
	f	to convert a montage				
		originally created for				
		one headbox to work				
		with a different one				
		(Import / Export).				
	9)					
		analyzers designed to				
		help medical				
		professionals and				
		technologists with the				
		identification of events				
		of interest in study				
		recordings. These				
		analyzers are set to				
		analyzers are set to				

factory default 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 Rate, Hypopnea, Limb Movement, Obstructive Apnea, Oxygen Desaturation, QEEG, Snoring, Stellate ICTA-D, Stellate ICTA-S, Tachycardia	
SAFETY STANDARD OF COMPLIANCE AND 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			
<ol> <li>Base unit</li> <li>Breakout Box</li> <li>Breakout to Base Cable</li> </ol>			

	4) Replacement Fuse for
	Base Unit
ľ	5) USB-to-Ethernet
	Adaptor  6) Quantum Nonin
	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
	CT AND ADD
	STANDARD REQUIREMENTS
	REQUIREMENTO
	1) CTC/Notarized
	certification of current
	and valid Authorized or
	Exclusive
	Distributorship.
	2) CTC/Notarized
	certificate of current and
	valid Manufacturer's
	compliance with ISO
	13485. 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.

	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	
1	manufacturer for the	
	bidder.	
	5) Notarized certification	
	· · · · · · · · · · · · · · · · · · ·	
	that the bidder must be	
	in the business in the	
	local market for a	
	minimum of five (5)	
	years.	
	6) Notarized certification	
	that the system or	
	machine is not a retrofit	
	solution.	
	7) Notarized Certificate of	
	manufacturer's approved	
	US FDA Premarket	
	Notification (PMN) or	
	CE Mark Approval.	
	8) The winning bidder shall	
	provide current and	
	valid calibration	
	certificate for the	
	equipment during	
	delivery.	
	9) Notarized certification	
	that the supplier has the	
	capability or authority	
	for corrective and	
	preventive maintenance	
	of the unit.	
	10) Notarized certification	
	from the manufacturer	
	authenticated by the	
	Philippine consulate	
	from the country of	
	origin of the unit that the	
	warranty should not be	
	affected with a change	
	of distributor.	
	11) Notarized certificate that	
	the bidder/supplier shall	
	provide a two (2) years	
	warranty for parts and	
	services that include	
	corrective maintenance,	
	preventive maintenance,	
	and/or calibration. The	
	warranty shall commence upon the	
	commence upon the	

acceptance of the end	
user. 12) Bidder must provide	
preventive maintenance	
and/or calibration schedule within the warranty period.  13) Notarized certification that the supplier/bidder shall provide applications training and certification for end users and maintenance personnel of the hospital.  14) CTC/Notarized certification to provide Manuals: two (2) sets of Service Manual in English Language and two (2) sets of User Manual in English Language upon delivery of the equipment.	
	CONFORME:
	(Company Name)
(Name	d Signature of Authorized Representative)