



REPUBLIC OF THE PHILIPPINES
Department of Health
NATIONAL CENTER FOR MENTAL HEALTH
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BIDS AND AWARDS COMMITTEE



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SECTION VII TECHNICAL SPECIFICATIONS

ITB NO. 064-2023

INSTRUCTION: Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.1(a) (ii) and/or GCC Clause 2.1(a)(ii).

ITEM	SPECIFICATION	STATEMENT OF COMPLIANCE
LOT 1 – MAJOR TEST TOOLS		
CTT23-01	ELECTRICAL SAFETY ANALYZER	
	<p>Specification: Test capability:</p> <ol style="list-style-type: none"> 1. Line Voltage Measurement 2. Earth/Ground Lead Resistance/Leakage Current 3. Enclosure/Chassis Leakage Current 4. Device under Test Current Measurement 5. External Resistance 6. External Leakage Current <p>Test standards</p> <ol style="list-style-type: none"> 7. EN/IEC62353, IEC60601-1 <p>Voltage (mains voltage)</p> <ol style="list-style-type: none"> 8. 108 ~ 132 V ac 9. 207 ~ 253 V ac <p>Leakage current</p> <ol style="list-style-type: none"> 10. 0 µA to 1999 µA 11. Leakage tests 12. Ground wire (earth) 13. Chassis (enclosure) 14. Lead to ground (patient) 15. Lead to lead (patient auxiliary) 16. Lead isolation (mains on applied part) 17. Direct equipment 18. Direct applied part 19. Point to point <p>Earth resistance</p> <ol style="list-style-type: none"> 20. Modes Two-Wire 21. Test current: 0.000 Ω to 2.000 Ω ± (2 % of reading+0.015 Ω) 	

	<p>Power ratings</p> <ul style="list-style-type: none"> 22. Mains voltage outlet 120 V ac - 230 V ac 23. 50 or 60 Hz <p>Environmental</p> <ul style="list-style-type: none"> 24. Operating temperature: 15 °C to 40 °C 25. Storage temperature: -10 °C to 60 °C 26. Operating humidity: 10 % to 90 % non-condensing 	
GAS FLOW ANALYZER		
	<p>Specification:</p> <ul style="list-style-type: none"> 1. Flow: High ±300 lpm (accuracy ±1-2 %) 2. Volume: ±10 L (accuracy ±1-2 %) 3. Pressure: - 0.6 to 10 bar (accuracy ±1 %) 4. Oxygen: 21 to 100 % (accuracy ±1 %) <p>Breath parameters</p> <ul style="list-style-type: none"> 5. Inspiratory tidal volume: ± 10 L 6. Inspiratory tidal volume accuracy: ± 1-2 % 7. Expiratory tidal volume: ± 10 L 8. Expiratory tidal volume accuracy: ±1-2 % 9. Breath rate: 1 to 1000 bpm (Breath rate accuracy ±1 %) 10. Inspiratory to expiratory time ratio (I:E) range 1:300 to 300:1 11. Inspiratory to expiratory time ratio (I:E) (accuracy ±2-2.5 %) 12. Temperature 0-40 °C (accuracy ±1-2 %) 13. Positive end expiratory pressure (PEEP) range up to 160 mbar (Accuracy ±0.75 % or 0.1 mbar) 14. Lung compliance range 0 to 1000 ml/mbar (Lung compliance accuracy ±3 % or 1 ml/mbar) <p>Gas Standard</p> <ul style="list-style-type: none"> 15. ATP (ambient temp/pressure, actual humidity) 16. ATPD (ambient temp/pressure, dry) 17. ATPS (ambient temp/pressure, saturated) 18. STP or STPD21 (21 °C temp/pressure 760 mmHg, dry) 19. BTPS (body temp 37 °C/ambient pressure 760 mmHg, saturated) 20. STP20 (20 °C temp/pressure 760 mmHg, actual humidity) 21. STP21 (21 °C temp/pressure 760 mmHg, actual humidity) <p>Gas Type</p> <ul style="list-style-type: none"> 22. Air 23. Oxygen 24. Carbon Dioxide 25. Nitrogen 26. Nitrous Oxide 27. Oxygen/Nitrogen 28. Oxygen/Nitrous Oxide <p>Battery Operated Unit</p> <ul style="list-style-type: none"> 29. Minimum 5 hours <p>Environmental</p> <ul style="list-style-type: none"> 30. Operating temperature: 15 °C to 40 °C 31. Storage temperature: -10 °C to 60 °C 32. Operating humidity: 10 to 90 % 33. Storage humidity: 5 to 95 % 	

	<p>VITAL SIGNS SIMULATOR</p>	
	<p>Specification:</p> <p>NIBP</p> <ol style="list-style-type: none"> 1. Manometer Pressure: At least 400 mmHg (Accuracy \pm 0.5-1% of reading + 0.5-1mmHg) NIBP simulation: Systolic/Diastolic 2. Adult: 60/30, 120/80, 150/100 and 200/150 3. Neonatal: 35/15 and 70/40 <p>Pulse Oximeter</p> <ol style="list-style-type: none"> 4. Oxygen Saturation: 70% to 99% 5. Heart Rate: 30 bpm to 240 bpm <p>ECG</p> <ol style="list-style-type: none"> 6. 12 Lead configurations with 10 universal ECG jacks, color-coded IEC standards 7. ECG Rate: 20 BPM to 300 BPM (Accuracy \pm1% BPM) <p>Battery Operated Unit</p> <ol style="list-style-type: none"> 8. Minimum 4-6 hours <p>Environmental</p> <ol style="list-style-type: none"> 9. Operating temperature: 10 °C to 30 °C 10. Storage temperature: -15 °C to 60 °C 11. Operating humidity: 10 % to 90 % non-condensing 	
	<p>INFUSION PUMP ANALYZER</p>	
	<p>Specification:</p> <ol style="list-style-type: none"> 1. Up to 2 Channel configurations <p>Pressure measurement:</p> <ol style="list-style-type: none"> 2. 0 psi to 40 psi (Accuracy \pm1 % of reading) <p>Volume measurement:</p> <ol style="list-style-type: none"> 3. Range 0 to 9999 ml (Accuracy \pm1-2 % of reading) <p>Flow rate measurement:</p> <ol style="list-style-type: none"> 4. 0.1 ml/h to 1500 ml/h (Accuracy \pm1-2 % of reading) <p>Environmental</p> <ol style="list-style-type: none"> 5. Operating temperature: 15 °C to 30 °C 6. Storage temperature: Up to +40 °C 7. Operating humidity: 10 % to 90 % 	
	<p>TERMS OF REFERENCE: (MAJOR TEST TOOLS)</p> <ol style="list-style-type: none"> 1. The equipment is branded and brand new, unused and is not a discontinued model or was listed in the market recall. Indicate the brand /Country of origin of items offered. The brand offered should be commercially available on the market for at least three (3) years. Certification to be submitted 2. Equipment is to be delivered within 60 days upon issuance of notice to proceed and Purchase Order 3. Bidders shall submit Notarized certificate of Exclusive Distributorship between/ or Authority to Distribute from the manufacturer or principal Distributor 4. Certification that the bidder/supplier shall provide two (2) years warranty on unit, parts and services which include preventive maintenance, corrective maintenance and calibration. Warranty shall commence upon the acceptance of the end user. Warranty certificate must be provided by the supplier (notarized) 5. Supplier shall provide service unit or a loaner unit during preventive maintenance, corrective maintenance and calibration services of units during warranty period. 	

	<p>*In case of breakdown of the unit, supplier must provide service unit or a loaner within 72 hours</p> <ol style="list-style-type: none"> 6. Notarized Certificate that the bidder must be in the business for at least five (5) years. 7. The bidder must have its own or accredited existing physical calibration facility/ laboratory for Calibration/Test Tools in the Philippines to assure immediate service for on call requested services. 8. The bidder must have a Certification from the brand Manufacturer as its Authorized Service Provider and must have ISO/IEC 17025:2017 Certification for Calibration for assurance that the aforementioned major test tools will be Serviced and Calibrated according to Manufacturer Standards and International Standards to ensure medical equipment performance and patient safety 9. For product demonstration and evaluation of post-qualification of the lowest calculated bidder. 10. The winning bidder shall provide a training on the proper handling and maintenance of the equipment to the end-users and to the hospital maintenance staff (at least 10 staffs who are designated on the said equipment) and provide training certificate. 11. A site visit shall be done to the Lowest Calculated Bidder. 12. The bidder shall provide current and valid certificate of manufacturer's compliance with ISO 9001: 2015 Certification, ISO 13485: 2016 Certification and ISO/IEC 17025:2017 13. The bidder must have ISO/IEC 17025:2017 certification 14. The winning bidder shall provide Users' Manual in English language during delivery of the units. <ol style="list-style-type: none"> i. Operations Manual - 1 copy ii. Service Manual - 1 copy 15. The winning bidder shall provide calibration certificate of each unit during delivery of the units (Current, valid and National Institute of Standards and Technology (NIST) traceable or other international standards. 16. All technical specifications shall be within the required range and/or better accuracy 17. Bidder's 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. 18. Winning bidder must provide Calibration Certificate with Traceability Report for succeeding recalibration of equipment. 	
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LOT 2 – MINOR TEST TOOLS

	DIGITAL MULTIMETER WITH THERMOCOUPLE SENSOR	
CTT23-02	<p>Specification</p> <ol style="list-style-type: none"> 1. AC/DC Voltage: 1000V 2. Resistance: 600 Ω 3. AC/DC Current: 10A 4. Capacitance: 10,000 μF 5. Temperature Probe: Type K 6. Temperature range: -20°C to 400°C 	

	<ul style="list-style-type: none"> 7. Set of Dual Test Leads 8. Battery Operated Unit 	
	SET OF TEST WEIGHTS (1 piece -5kg, 2 pieces - 10kg, 5 pieces - 25kg)	
	Specification: <ul style="list-style-type: none"> 1. Type: Class M1 2. Material: Cast Iron 3. Grip Type Handle 4. Rectangular Single Weights 	
	DIGITAL THERMOHYGROMETER	
	Specification: <ul style="list-style-type: none"> 1. Measures Temperature (Type K) and Relative Humidity 2. Temperature Range: (0 to 50°C) 3. Accuracy: $\pm 1.2^{\circ}\text{C}$ 4. Relative Humidity: 10 to 95%RH 5. Battery operated unit 	
	PHOTOTACHOMETER	
	Specification: <ul style="list-style-type: none"> 1. Measuring range: +1 to 99999 rpm (Accuracy $\pm 0.02\%$) 2. Measurement distance: up to 600 mm 3. Optical and Mechanical Measurement 4. Battery operated unit: Up to 8 hours Environmental <ul style="list-style-type: none"> 5. Operating temperature: 15 °C to 40 °C 6. Storage temperature: -10 °C to 60 °C 7. Operating humidity: 10 % to 90 % 	
	REFERENCE TIMER	
	Specification: <ul style="list-style-type: none"> 1. Timing Capacity: At least 8 hours 2. Accuracy: ± 5 second/day 3. Temperature: -10 to 50 °C 4. Humidity: 1 to 99% 5. Countdown timer with audible warning signal for the last 5 seconds 6. Timer and alarm mode 7. Battery operated unit 	
	DIGITAL CALIPER	
	Specification: <ul style="list-style-type: none"> 1. Range: 0 – 200mm 2. Accuracy: $\pm 0.02\text{mm}$ 3. Smooth, stable and thumb friendly slider shape for the comfortable operation 4. Battery operated unit 	
	TERMS OF REFERENCE: (MINOR TEST TOOLS) <ul style="list-style-type: none"> 1. The equipment is branded and brand new, unused and is not a discontinued model or was listed in the market recall. Indicate the brand /Country of origin of items offered. The brand offered should be commercially available on the market for at least three (3) years. Certification to be submitted 	

	<ol style="list-style-type: none"> 2. Equipment is to be delivered within 60 days upon 3. issuance of notice to proceed and Purchase Order 4. Certification that the bidder/supplier shall provide two (2) years warranty on unit, parts and services which include preventive maintenance, corrective maintenance and calibration. Warranty shall commence upon the acceptance of the end user. Warranty certificate must be provided by the supplier (notarized) 5. Supplier shall provide service unit or a loaner unit during preventive maintenance, corrective maintenance and calibration services during warranty period *In case of breakdown of the unit, supplier must provide service unit or a loaner within 72 hours 6. Notarized certificate that the bidder must be in the business for at least five (5) years. 7. The bidder must have its own or accredited existing physical calibration facility/ laboratory for Calibration/Test Tools in the Philippines to assure immediate service for on call requested services. 8. The bidder must have ISO/IEC 17025:2017 certification for assurance that the minor test tools will be Serviced and Calibrated according to Manufacturer Standards and/or International Standards 9. For product demonstration and evaluation of post-qualification of the lowest calculated bidder. 10. The supplier shall provide a training on the proper handling and maintenance of the equipment to the end-users and to the hospital maintenance staff (at least 10 staffs who are designated on the said equipment) and provide training certificate. 11. A site visit shall be done to the Lowest Calculated Bidder 12. Current and valid certificate of manufacturer's compliance with ISO and/or CE certificate or its equivalent 13. The supplier shall provide Users' Manual in English language. <ol style="list-style-type: none"> i. Operations Manual – 1 copy ii. Service Manual - 1 copy 14. Bidders shall provide calibration certificate of each unit (Current, valid and National Institute of Standards and Technology (NIST) traceable or other international standards 15. All technical specifications shall be within the required range and/or better accuracy 16. Bidder's 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. 	
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Conformed by:

**Authorized Representative's
Signature over printed name**

Date: _____