



25-5389

PROVINCIAL GOVERNMENT OF DAVAO DE ORO

Cabidianan, Nabunturan, Davao de Oro

TECHNICAL SPECIFICATIONS FORM

Purchase Request Number: 25-5389

Bid Number: B-25-0221
 Date: 10/30/2025
 Page: 1 of 5

ITEM NO.	QTY.	UNIT OF ISSUE	DESCRIPTION	APPROVED BUDGET		BID PRICES	
				Unit Price	Total Amount	Unit Price	Total Amount
1	1.0	UNIT/S	<p>ANESTHESIA MACHINE WITH VENTILATOR AND ACCESSORIES BRAND NEW</p> <p>TECHNICAL SPECIFICATIONS</p> <p>Inlet Connections:</p> <ul style="list-style-type: none"> Inlet connector with proper pin-index and color coding compatible with the hospital Operating Room (OR) gas supply. Each inlet connection must have a filter with a pore size of not more than 100 micrometers (μm) or equivalent. <p>Gas Supply System:</p> <ul style="list-style-type: none"> Reserve cylinder yokes for each: Oxygen (O), Medical Air, and Nitrous Oxide (NO) supply. Pressure gauge and regulator for each: Oxygen (O), Medical Air, and Nitrous Oxide (NO) supply. One-way valve at the high-pressure side for each: Oxygen (O), Medical Air, and Nitrous Oxide (NO) supply. <p>Flowmeter and Safety Systems:</p> <ul style="list-style-type: none"> Flowmeter with control valve and anti-hypoxic mechanism for Oxygen (O) concentration control. Flowmeter readings must be in liters per minute (L/min) or equivalent. Nitrous Oxide (NO) cut-off system operated by Oxygen (O) pressure. Oxygen (O) flush at 25–50 liters per minute (L/min). Pressure limiting device (pop-off valve) with a maximum pressure limit of 125 centimeters of water (cmHO). Two vaporizer mounts. One-way valve for the anesthetic gas supply line (common gas outlet valve). Bag/Ventilator switch selector, clearly marked with "Bag" and "Ventilator." <p>Physical and Power Requirements:</p> <ul style="list-style-type: none"> Cart with four (4) anti-static, rust-free castors; two (2) with brakes. Power supply: 220–240 volts alternating current (AC), 60 hertz (Hz), three-pronged plug. 	2,500,000.00	2,500,000.00	_____	_____

SUB-TOTAL

2,500,000.00

Purpose: For the use of DDOPH-Maragusan

Delivery: DDOPH-Maragusan

Period of Delivery: 20 Days



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				Unit Price	Total Amount	Unit Price	Total Amount
			<ul style="list-style-type: none"> • Rechargeable backup battery allowing at least 30 minutes of operation. • At least two (2) large drawers for accessory storage. <p>VENTILATOR TECHNICAL SPECIFICATIONS</p> <p>Displayed Parameters:</p> <ol style="list-style-type: none"> i. Tidal Volume ii. Minute Volume iii. Inspiratory-to-Expiratory Ratio (I:E Ratio) iv. Inspiration and Expiration Times v. Spontaneous Minute Volume vi. Respiratory Rate (spontaneous and mechanical) vii. Total Frequency viii. Fraction of Inspired Oxygen (FiO) <p>Adjustable Settings:</p> <ol style="list-style-type: none"> a. Minute Volume: 2 to 25 L/min or higher b. Tidal Volume: 20 to 1500 milliliters (mL) or higher c. Respiratory Rate: 5 to 70 cycles per minute or higher d. Inspiratory-to-Expiratory Ratio (I:E Ratio): 2:1 to 1:4 or equivalent <p>Safety Features:</p> <ol style="list-style-type: none"> a. Automatic compliance and leakage compensation for circuit and tubing or equivalent b. Visual and audible alarms for: <ul style="list-style-type: none"> • High Pressure • Low Pressure • High Minute Volume • Low Minute Volume • High Respiratory Rate • High Tidal Volume • Apnea (absence of breathing) <p>PATIENT MONITOR (Per Unit)</p> <ol style="list-style-type: none"> a. Touchscreen, colored, minimum 12-inch Liquid Crystal Display (LCD) or higher b. Six (6) parameters with accessories: <ul style="list-style-type: none"> • Electrocardiogram (ECG) • Non-Invasive Blood Pressure (NIBP) • Peripheral Capillary Oxygen Saturation (SpO) • Temperature • Respiration • End-Tidal Carbon Dioxide (EtCO) 				

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				Unit Price	Total Amount	Unit Price	Total Amount
			<p>capnograph</p> <p>c. Eight (8) waveforms or higher</p> <p>d. With alarm indicator, power indicator, QRS beep, and alarm sound</p> <p>e. Built-in thermal printer using locally available thermal paper</p> <p>f. Heart Rate (HR) display range: 15–300 beats per minute (bpm)</p> <p>g. Respiratory Rate (RR) range: 0–120 respirations per minute (rpm)</p> <p>h. Non-Invasive Blood Pressure (NIBP) cuff inflating range: 0–270 millimeters of mercury (mmHg) in Auto/Manual mode</p> <p>i. Power supply: 220–240V, 60Hz, three-pronged plug with built-in rechargeable battery (minimum 2-hour operation)</p> <p>ACCESSORIES (Per Unit)</p> <p>1. Two (2) patient breathing circuits</p> <p>2. Spare 3-liter and 2-liter breathing bags</p> <p>3. One (1) extra pack of soda lime</p> <p>4. Appropriate on- line Uninterruptible Power Supply (UPS), minimum 1-hour continuous operation, with Automatic Voltage Regulator (AVR) (26% higher than rated value), 220V, 60Hz, servo-motor type, with overcurrent protection</p> <p>5. Provision One (1) bottle for each anesthetic agent</p> <p>6. One (1) piece test lung</p> <p>7. Active scavenging system</p> <p>8. Medical regulators for Oxygen (O₂), Nitrous Oxide (NO), and Medical Air, high pressure</p> <p>TECHNICAL SPECIFICATIONS FROM THE BIDDER</p> <p>1. Certification of submission of original Operator/User Manual (English)</p> <p>2. Certification of submission of original Service/Technical and Maintenance Manual (English)</p> <p>3. Original brochure/manual from the manufacturer containing all required specifications</p> <p>4. Bidder must provide a service unit during repair/maintenance under warranty period</p> <p>5. Copy of Distributorship Agreement between manufacturer and</p>				

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			<p>local distributor</p> <p>6. Certification that the bidder will provide training for at least two (2) end users and two (2) maintenance staff</p> <p>7. List of completed similar projects/installations (same brand) with copies of contracts or purchase orders</p> <p>8. Certification that the bidder shall be responsible for notification, transportation, delivery, installation, and commissioning at no cost to the government</p> <p>9. Certification that the bid offer is in Philippine Pesos (PHP), inclusive of all taxes, duties, delivery, installation, and on-site testing</p> <p>10. Two (2) years warranty for parts and services after installation, commissioning, and training</p> <p>11. Free preventive maintenance visits (check-up, calibration verification, functionality testing) semi-annually within warranty period</p> <p>12. Supplier must have Davao-based engineers/technicians capable of responding within 48 hours</p> <p>13. Corrective maintenance must be completed within 14 calendar days after notification</p> <p>TECHNICAL SPECIFICATIONS FROM THE MANUFACTURER</p> <p>1. Service engineer/technician must be employed by or authorized by the manufacturer</p> <p>2. Certification that equipment is brand new, unused, not discontinued, and not subject to recall</p> <p>3. Certification that spare parts will remain available after warranty period</p> <p>4. Certificate of training for engineers/technicians including:</p> <ul style="list-style-type: none"> • Name of Trainee • Equipment Name/Brand/Model • Inclusive Dates of Training • Name of Trainer, Date, and Venue <p>ANESTHETIC BREATHING SYSTEM</p> <ul style="list-style-type: none"> • Anesthetic reservoir bag (breathing bag): 3 liters (adult) and 2 liters (pediatric) • Carbon Dioxide (CO) absorber canister with soda lime; transparent for 				

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			<p>visualization of color change</p> <p>ALARMS REQUIRED</p> <ul style="list-style-type: none"> • Oxygen (O) supply failure • High pressure limit exceeded • Continuous high pressure longer than 15 seconds (or equivalent) • Patient breathing circuit disconnection • Power supply failure <p>VENTILATOR</p> <p>The ventilator must be detachable from the anesthesia unit and must include:</p> <p>Components:</p> <ul style="list-style-type: none"> a) Bellows with at least 1.5-liter capacity b) Liquid Crystal Display (LCD) or Light-Emitting Diode (LED) monitor, minimum 10-inch diagonal or higher, capable of showing: <ul style="list-style-type: none"> i. Two of three traces versus time: Pressure, Volume, Flow ii. Two of three two-axis displays: Pressure-Volume, Flow-Volume, Pressure-Flow iii. Status indicators: ventilator mode, battery life, patient data, alarm settings, clock iv. Airway Pressure: Peak Airway Pressure and Mean Airway Pressure 				

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