Republic of the Philippines
Department of Health
**METRO MANILA CENTER FOR HEALTH DEVELOPMENT**

**SUPPLEMENTAL/ BID BULLETIN NO. 1**

**IB 2022 – 064E**
**PROCUREMENT OF 1 SET ANAESTHESIA MACHINE**

This Supplemental/Bid Bulletin No. 1 is being issued to revise provisions/specifications in the Bidding Documents for a forecited project:

| **Revision and clarification to provisions/specifications in the Bidding Documents:** | |
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| **FROM** | **TO** |
| - Should have at least three non-lockable drawers for storing accessories. | - Should have at least two non-lockable drawers for storing accessories. |
| - Frame shall accommodate up to four (4) backup cylinders with the options of:<br>o O2, N2O, Air<br>o O2, O2, N2O, Air<br>o O2, N2O, Air, Air<br>o O2, O2, N2O, N2O<br>o O2, N2O, N2O, Air | - Frame shall accommodate up to two to three (2-3) backup cylinders with the options of:<br>o O2, N2O, Air<br>~~o O2, O2, N2O, Air~~<br>~~o O2, N2O, Air, Air~~<br>~~o O2, O2, N2O, N2O~~<br>~~o O2, N2O, N2O, Air~~ |
| - Should have auxiliary gas outlets (2 nos for each Oxygen and Air) | - Should have auxiliary gas outlets (1 no. for each Oxygen and Air) |
| - The frame should have integrated power outlets to supply a minimum of Four (4) external devices | - The frame should have integrated power outlets to supply a minimum of two (2) external devices |
| - Flow range: 50 ml - 10 lpm | - Flow range: manufacturer's standard |
| - The mechanical anti-hypoxic system must limit minimum Oxygen levels to 30% ±3% (of total O2 and N2O flow) | - The mechanical anti-hypoxic system must limit minimum Oxygen levels to at least 25% (of total O2 and N2O flow) |
| - The unit should accommodate at least three vaporizers for Anaesthetic agent delivery. | - The unit should accommodate at least two vaporizers for Anaesthetic agent delivery. |
| - Display: At least 12 inches color TFT | - Display: At least 10 inches color TFT |
| o Synchronized Mandatory Minute Ventilation (SMMV) | o Synchronized Mandatory Minute Ventilation (SMMV) or its equivalent |
| - Should have the ability to display Patient Spirometry loop | - Should have the ability to display Patient Spirometry loop or equivalent |
| o Tidal Volume: 20 ml - 1600 ml | o Tidal Volume: Manufacturer's Standard |
| o Minute Volume: 2 to 50 lpm | o Minute Volume: 2 to 50 lpm – monitor parameter or setting |
| - 1 Vaporizer (For Sevoflurane, Isoflurane, Halothane) | - 1 Vaporizer (For Sevoflurane, Isoflurane) |

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Bidders are advised to use the following attached forms and submit together with all required documents for the submission of bids on 23rd day of May 2022, 9:00 AM:

This Supplemental/Bid Bulletin No. 1 shall form an integral part of the Bidding Documents. All other provisions indicated in the bidding documents which are not affected by this Supplemental/Bid Bulletin No. 1 shall remain in effect.

For guidance and information of all concerned.

Issued this 15th day of May 2022 in MMCHD

Approved by:

**ALELI ANNIE GRACE P. SUDIACAL, MD, MPH**
Director III / BAC Chairperson

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# Technical Specifications

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| Republic of the Philippines<br>Department of Health<br>Metro Manila Center for Health Development<br><br>TECHNICAL SPECIFICATIONS | | | |
| Item No.<br>**1** | **ANAESTHESIA MACHINE** | Qty./Unit | **1 Unit** |
| Name of Manufacturer: | | | Country of Origin |
| Brand: | | | Model: (if applicable) |
| ABC: **2,400,000.00** | | | |
| PURCHASER'S SPECIFICATION | | | STATEMENT OF COMPLIANCE |

**Technical Specifications:**

**• General**

- Should have provision for delivery of Oxygen, Nitrous oxide and medical air

- The machine should be capable of delivering Low flow and Minimal flow anaesthesia

- The anaesthesia machine with circle absorber, Ventilator and Vaporizer should be CE and FDA approved.

- Should have independent attachments for connecting central gas supply and pin indexed cylinders.

- Should have non-interchangeable pipeline hose inlet connection to pipelines for medical Oxygen, Nitrous Oxide and medical Air

- Should have large size pressure gauges, for easy visibility, color coded, two each for Oxygen, Nitrous Oxide and Air

- Anaesthesia machine frame shall be manufactured in strong but lightweight material. Aluminum or composite material is preferential over steel frame construction.

- The machine shall have a maximum of four castors/wheels (with brakes) for maneuverability.

- Should have at least two non-lockable drawers for storing accessories.

- Frame shall accommodate up to two to three (2-3) backup cylinders with the options of:

  o O2, N2O, Air

  ~~o O2, O2, N2O, Air~~

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| ~~o O2, N2O, Air, Air~~<br>~~o O2, O2, N2O, N2O~~<br>~~o O2, N2O, N2O, Air~~<br>- The common gas outlet shall be easily accessible in the event of an emergency and for use of alternate breathing circuits.<br>- Should have auxiliary gas outlets (1 no. for each Oxygen and Air)<br>- Should have sufficient table top work space.<br>- Should have illumination for the writing table/work surface.<br>- The frame should have integrated power outlets to supply a minimum of two (2) external devices<br>- Should have a top shelf, maneuvering handle and foot rest<br>- The unit should have a battery back-up facility for the ventilator in the event of power loss. (Minimum of 60 mins operation)<br>- **Power Supply**: 220V, 50/60Hz<br>• **Gas Flow**<br>- With Antistatic and Cascaded dual flow tubes for all gases (O2, N2O and Air)<br>- Flow range: Manufacturer's standard<br>- With audible and visual alarm for oxygen failure.<br>- With N2O cut-off facility if O2 supply fails.<br>- With Oxygen flush facility (non-lockable) bypassing Vaporizer.<br>- The unit should have a mechanical anti-hypoxic device system to control the ratio of Oxygen and Nitrous Oxide.<br>- The mechanical anti-hypoxic system must limit minimum Oxygen levels to at least 25% (of total O2 and N2O flow)<br>- With visual display of individual gas flows.<br>- In case of power loss, it shall be possible to set the fresh gas flow accurately for each gas and manually ventilate adding anaesthetic agent.<br>• **Vaporizers**<br>- The unit should accommodate at least two vaporizers for Anaesthetic agent delivery.<br>- Maintenance free.<br>• **Ventilator**<br>- Should be able to cater a diverse range of patient groups from neonates to adult patients.<br>- Display: At least 10 inches color TFT | |

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| - Ventilation Modes<br>o Volume Control Ventilation (VCV)<br>o Pressure Control Ventilation (PCV)<br>o Synchronized Intermittent Mandatory Ventilation (SIMV)<br>o Synchronized Mandatory Minute Ventilation (SMMV) or its equivalent<br>o Pressure Support Ventilation (PSV)<br>o Spontaneous<br>- Should have a leak and compliance test<br>- Should have the ability to display Patient Spirometry loop or equivalent<br>- Should be able to display waveforms for flow and airway pressure<br>- Volume measurement shall be by separate flow sensors.<br>- The volume measurement flow sensors/transducers shall be housed completely within the breathing system absorber and not remoted via tubes or channels.<br>- Volume measurement sensors should not be disposable.<br>- Ventilator Parameters<br>o Tidal Volume: Manufacturer's standard<br>o Frequency: 4 - 100 bpm<br>o I:E Ratio: 1:0.2 to 1:8<br>o Inspiratory Pause: 0-60%<br>o PEEP: Off, 4 - 20 cmH2O<br>o Pressure Limit: 5 - 70 cm H2O<br>o Minute Volume: 2 to 50 lpm – monitor parameter or setting<br>o Inspiratory Flow: 2 - 70 lpm<br>• **Breathing System**<br>- All parts of the system that are in contact with the patient gas shall be latex free and Autoclavable except for non-autoclavable parts.<br>- Should have a heater system to avoid water condensation.<br>- Should have a quick release canister for sodalime with minimum capacity of 1500 ml<br>- Should have a provision for FiO2 monitoring cell and FiO2 value should be monitored on the main screen.<br>- Should come with a bag arm with height and positional adjustment as a standard | |

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| • **Accessories**<br>- High pressure hoses for (O2, N2O and Air)<br>- Adult patient circuit (Reusable or Disposable)<br>- Face Mask (Reusable or Disposable)<br>- 2 Liter Breathing bags (2 pcs)<br>- Power Cord<br>- 1 Vaporizer (For Sevoflurane, Isoflurane)<br>- Galvanic Type FiO2 Cell | |
| **REQUIREMENTS IF AWARDED THE CONTRACT**<br><br>1. **Completion Period**: The delivery, installation, testing and commissioning of the equipment and its accessories, including the training of end-users and maintenance staff must be completed within **60** calendar days upon receipt of Notice to Proceed.<br><br>2. **Testing**: Prior to acceptance, the end user shall conduct a physical inspection and functionality test. The equipment must be functioning and must have no physical damage and defect.<br><br>3. **Training:** The supplier shall provide a training on the proper use and maintenance of the equipment to the end-users and to the hospital maintenance staff within 3 days upon delivery of the equipment.<br><br>4. **Warranty**: Warranty certificate for two (2) years on parts and service. The supplier shall either repair or replace any item or part in the equipment that is found to be defective in material or in workmanship under normal use. The warranty period shall commence from the date of acceptance by the end-user after testing and commissioning.<br><br>5. Notarized undertaking that the supplier shall conduct the necessary corrective maintenance within five (5) calendar days upon notification of the equipment breakdown from the end-user. The undertaking shall include a statement that the number of days where the equipment is unusable due to defective material or workmanship, shall be added to the warranty period.<br><br>6. **Manuals**: The supplier must provide the end-user one (1) hard and one (1) soft copy of the following:<br>a) Service manual in English language<br><br>b) Operation manual in English language<br><br>7. With "**DOH-MMCHD HFEP**"(Government Property not for sale) sticker in each unit.<br><br>x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x-x<br><br>*Recipient: Sta Ana Hospital* | |
| **Additional Requirement to be submitted by the Single/Lowest Calculated Bidder (SCB/LCB) as part of post qualification:** | |

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| 1. One (1) original sample of manufacturer's product to be submitted and returned after evaluation. The sample submitted and approved during the evaluation shall be the same item to be delivered upon award of contract. Prototype of the labelling instruction must be part of the sample submitted however, the technical specifications of the labelling instruction of the product must be complied upon delivery. | |