**Republic of the Philippines**

**PROVINCE OF PANGASINAN**

**Bids and Awards Committee**

**2nd Floor Malong Bldg. Capitol Compound, Lingayen, Pangasinan
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**INVITATION TO BID**

**for**

**Supply and Delivery of One (1) unit Anesthesia Machine at Dasol Community Hospital, Dasol, Pangasinan**

Project Identification No.: PANG-2024-10-1222-G

1. The **Provincial Government of Pangasinan**, through the **Capital Outlay – Hospitals (PR#2024-09-6442)** intends to apply the sum of **Three Million Six Hundred Ninety Thousand Pesos (****P3,690,000.00)** being the Approved Budget for the Contract (ABC) to payments under the contract for **Supply and Delivery of One (1) unit Anesthesia Machine at Dasol Community Hospital, Dasol, Pangasinan.**

Specifications:

Features:

* 15.60 Touch Screen, Ventilator, TV Setting, 20-1500ml
* VCV & PCV
* 3 Gas system (Air, 02, N20)
* Central Brake
* Alarm Management
* Electronic/Digital Flowmeters
* Mechanical Back-up flowmeter
* Hypoxic guard
* Module rack
* 3 drawers with lock
* Auxiliary O2 outlet
* LED Light
* Alarm light
* Independent mechanical ACGO
* 2 Vaporizer position
* Auxiliary Sockets

Physical Specifications:

Dimensions and Weight

Height – 1370 mm

Width – 780 mm (not including breathing system)

 945 mm (including breathing system)

Depth – 690 mm

Weight ˂145 kg (without vaporizers and cylinders)

Top Shelf

Weight limit – 30 kg

Width – 305 mm

Length – 545 mm

Work Surface

Area – 1635 cm2

Drawer (3xdrawers, Internal Dimensions)

Height – 130 mm

Width – 415 mm

Depth – 320 mm

Bag Arm

Height – 1150 mm

Length – 312 mm

Connection – ISO 22mm OD, 15mm ID

Casters

Diameter – 125mm

Brakes – Center brake system with Lock/Unlock

Ventilator Specifications

Modes of Ventilation

Manual/Spontaneous Ventilation/Bypass

Volume Control Ventilation (VCV) with PLV function

Pressure Control Ventilation (PCV) with/without volume guarantee (VG) Synchronized Intermittent Mandatory Controlled)

Pressure Support Ventilation (PS) with apnea backup

Synchronized Intermittent Mandatory Ventilation Volume

Guarantee (SIMV-VG)

Continuous Positive Airway Pressure/Pressure Support

Ventilation (CPAP/PS)

Airway Pressure Release Ventilation (APRV)

Compensation

Circuit gas leakage compensation and automatic compliance compensation

Ventilation Parameters Range

Patient Size – Adult, Pediatric, Neonate

Tidal Volume - 10~1500 mL (Volume Mode)

5~1500 mL (Pressure Mode)

Plimit - 10~100 cmH20

ΔPsupp - 3~60 cmH2O

0, 3~60 cmH2o (CPAP/PS)

Rate - 2~100bpm

I:E – 4:1 – 1:8

Inspiratory pause (Tip:Ti) OFF, 5% - 60% Inspiratory time (Tinsp)

0.2 – 10.0 s

Trigger window 5% - 90% Flow Trigger – 0.2~ 15 L/min

Pressure trigger - 20~ -1 cmH2O

Expiration termination level – 5% - 80%

Minimum Rate 2 – 60 bpm

Tslope – 0.0 – 2.0 s

Apnea I: E – 4:1~1:8

ΔPapnea – 3 – 60 cmH2O

Phigh – 3-80 cmH2O

Thigh – 0.2 to 10.0s

Tlow – 0.2 to 10.0s

Positive End Expiratory Pressure (PEEP)

Type – Integrated, electronic controlled

Range – OFF, 3~30 cmH2O

Driving Pressure – 280 kPa to 600 kPa

Peak gas flow – 180 L/min + Fresh Gas Flow

Monitoring Parameters

Minute volume 0~100 L/min

Tidal volume 0~3000 ml

Inspired oxygen (FiO2) – 18% ~ 100%

Airway Pressure - -20 ~ 120 cmH2O

I:E – 50:1 ~ 1:50

Rate – 0 ~ 120bpm

PEEP – 0 ~ 70 cmH2O

Resistance (R) - 0 ~ 600 cmH2O/(L/s)

Elasticity (E) – 0.003 to 10 hPa/mL (cmH2O/ml)

Compliance (C) – 0 ~ 300 ml/cmH2O VGA

Pixel format – 1024 x 768 Mounting Mode

Ventilator Components

Flow Sensor

Type – Variable orifice flow sensor

Location – Inspiratory and expiratory port

Oxygen Sensor

Type – Galvanic fuel cell

FiO2 displayed 18% to 100%

Accuracy - ±(Volume fraction of 2.5% +2.5% gas level)

Response Time ≤20 seconds

Ventilator Screen

Display type – Color capacitive touch screen

Display size – 15 inch

Brightness – Adjustable

Screen display – configurable

Display parameters – All setting and alarm parameters (including Breath rate, I/E ratio, Tidal volume, Minute volume, PEEP, MEAN, PEAK, PLAT, and O2 concentration, EtCO2, N2O, Aesthesia gas concentration, BIS)

Display waveforms – P-T, F-T, V-T, CO2, BIS, O2, Anesthetic gas, N2O

Spirometry loops – P-V, F-V and F-P

Timer – On screen timer

Communication Ports

One RS-232C Connector and one DB9 connector

Ethernet (RJ-45)

USB

Vaporizers

Vaporizer – Mindray V60 Anesthetic Vaporizer or Penlon

Sigma Delta Anesthetic Vaporizer

Support agents Halothane, Enflurane, Isoflurane, Sevoflurane

Position – MAX.2

Function

Plug-in, with interlocking function

Modules

Anesthesia Gas (AG) Module

Monitor gases CO2, N2O, Halothane, Enflurane, Isoflurane, Sevoflurane, Desflurane, MAC, Paramagnetic o2 (optional)

Warm-up time 45 s (ISO accuracy mode)

10min (full accuracy mode)

Pump rate – Adu/Ped: 150, 180, 200 ml/min

Neo: 100, 110, 120 ml/min

Range – CO2: 0% ~ 10%

Des: 0% ~ 18%

Sev: 0% ~ 8%

Enf, Iso, Hal: 0% ~ 5%

02/N2O: 0% ~ 100%

Carbon Dioxide (CO2) Modules

Method – Infrared absorption

Module Type – Mindray side – stream

Capnostat mainstream

Oridion micro-stream

(optional)

Work mode – Standby or measurement

Displayed numerics – EtCO2, FiCO2

Waveform – Capnography

Side-Stream Carbon Dioxide (CO2) Module

Measurement range – 0 ~ 152 mmHg

Accuracy - ±2 mmHg (0 ~ 40 mmHg)

±5% of the real reading (41 ~ 76 mmHg)

±10% of the real reading (77 ~ 152 mmHg)

Resolution – 1 mmHg

Pump rate – Neonatal: 100mL/min or 120mL/min

Adult/children: 120 mL/min or 150 mL/min Warming-up time mode

After 1 min, enters the full accuracy mode

Response time ˂5 s@100 mL/min

˂5 s@120 mL/min

Measured by using neonatal watertrap and 2.5m neonatal sampling line

˂6.5 s@120 mL/min

˂6 s@150 mL/min

Measured by using adult watertrap and 2.5 m adult sampling line

Mainstream CO2 Module

Measurement range – 0 ~ 150 mmHg

Accuracy - ±2 mmHg (0 ~ 40 mmHg)

±5% of the reading (41 ~ 70 mmHg)

±8% of the reading (71 ~ 100 mmHg)

±10% of the reading (101 ~ 150 mmHg)

Resolution – 1 mmHg

Response time ˂2 s

Alarm limit – EtCO2 High: OFF, 2 ~ 150 mmHg

EtCO2 Low: OFF, 0 ~ 148 mmHg

FiCO2 High: OFF, 1 ~ 150 mmHg

Micro-stream CO2 Module

Measurement range – 0 ~ 99 mmHg

Accuracy – 0 ~ 38 mmHg: ± 2 mmHg

39 ~ 99 mmHg: ±(5% of the reading + 0.08% of (the reading minus 38 mmHg)

Sampling rate – 50 ml/min

Sampling Accuracy -7.5 ml/min ~ +15 ml/min

Initialization time 30s

Response time - ≤2.9s

Rising time - ≤190 ms

Alarm range – EtCO2 High: OFF, 2 ~ 99 mmHg

EtCO2 Low: OFF, 0 ~ 97 mmHg

FiCO2 High: OFF, 1 ~ 99 mmHg

BIS Module

Measured parameters – EEG

BIS/BIS L, BIS R - 0~100

Sweep speed – 6.25 mm/s,12.5 mm/s, 25 mm/s or 50 mm/s

Alarm limit

BIS high: 2~100

BIS low: 0~98

Calculated parameters SQI/SQI L, SQI R; EMG/EMG L, EMG R; SR/SR L, SR R; SEF/SEF L, SEF R: TP/TP L, TP R; BC/BC L, BC R; sBIS L, sBIS R;

INCLUDES:

* Oxygen Sensor
* Flow Sensor Assembly
* Breathing Circuit
* Power Cord
* Below Dome & Assembly
* Sevoflurane Pour Fill Vaporizer
* Oxygen Gauge
* Passive Scavenging Tube
* Flow Sensor Assembly
* 02 Tube Assembly

Bids received in excess of the ABC shall be automatically rejected at bid opening.

1. The **Provincial Government of Pangasinan** now invites bids for **Supply and Delivery of Anesthesia Machine.** Delivery of the Goods is required Seven (7) Calendar Days. Bidders should have completed from the date of submission and receipt of bids, a contract similar to the project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instruction to Bidders.
2. Bidding will be conducted through open competitive bidding procedures using a non-discretionary “pass/fail” criterion as specified in the 2016 Revised Implementing Rules and Regulation (IRR) of Republic Act (RA) 9184), otherwise known as the “Government Procurement Reform Act”

Bidding is restricted to Filipino citizen/sole proprietorships, partnerships, or organizations with at least sixty percent (60% interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

1. Interested bidders may obtain further information from **Provincial Government of Pangasinan** **thru the Bids and Awards Committee (BAC) Office** and inspect the Bidding Documents at the address given below during Bidders **October 16, 2024 – November 5, 2024; 8:00 am to 5:00pm and November 6, 2024; 8:00 am to 10:00am**.
2. A complete set of Bidding Documents may be acquired by interested Bidders **October 16, 2024 – November 5, 2024; 8:00 am to 5:00pm and November 6, 2024; 8:00 am to 10:00am** and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **Four Thousand Pesos (P4,000.00)**.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

1. The **Provincial Government of Pangasinan** will hold a **Pre-Bid Conference** on **October 25, 2024; 10:00 am** at **Conference Room, 2nd Floor Malong Building, Capitol Compound, Lingayen, Pangasinan**, which shall be open to prospective bidders.
2. Bids must be duly received by the BAC Secretariat at the address below on or before **November 6, 2024; 10:00am**. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 18.

Bid opening shall be on **November 6, 2024; 10:00am** at **Conference Room, 2nd Floor, Malong Building, capitol Compound, Lingayen, Pangasinan**. Bids will be opened in the presence of the bidders’ representatives who choose to attend at the address below. Late bids shall not be accepted.

1. The **Provincial Government of Pangasinan** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.
2. For further information, please refer to:

**MELICIO F. PATAGUE II**

Provincial Administrator

BAC Chairman

Provincial Administrator

Capitol Building, Capitol Compound

Lingayen, Pangasinan

**MARLON C. OPERAÑA**

Provincial Accountant

BAC Technical Working Group

Provincial Accountant

Finance Building, Capitol Compound

Lingayen, Pangasinan

**RHODYN LUCHINVAR O. ORO**

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**MELICIO F. PATAGUE II**

Provincial Administrator

BAC Chairman