

BIDS AND AWARDS COMMITTEE
SUPPLEMENTAL BID BULLETIN NO. 007-2019

January 14, 2019

The Philippine Sports Commission, through its Bids and Awards Committee, wishes to inform all prospective bidders participating in the public bidding of the project titled **"Supply, Delivery and Installation of Endless Pool and Breath by Breath Analyzer- Lot 6 Re bid"** the following clarifications and additions:

1. We made modifications, revisions and changes on the technical specifications for the above-mentioned project to, wit:

Supply, Delivery and Installation of Endless Pool and Breath by Breath Analyzer- Lot 6 Re Bid "

Technical Specifications:

1 Lot Supply and Installation of Endless Pool and Breath by Breath Analyzer each must consists of:

A. 2 units Elite Endless Pool
Pool Swimming Machine

- Its 7.5-hp pump with dual hydraulic motors drives two custom-designed propellers, moving more than double the water volume of our Original Endless Pool.
- The propellers' extra distance from the outlet grill (itself a spacious 24"x18") lets the current straighten, so you enjoy an ultra-smooth swim.
- 8' x 14' to 10' x 16' swimming area
- 39" standard water depth, 45" & 51" optional
- Modular steel construction
- 7.5-hp, two-motor, two-propeller swim current generator with wireless remote control
- 24" x 18" water outlet grill
- Reinforced acrylic water flow and conditioning system
- Three 59" x 18" stainless steel VGB compliant suction grills
- Poolside digital systems control
- High-efficiency circulating pump
- Skimmer filter (removable-cartridge type)
- 4-kW electric heater
- 220-volt, 50-amp power requirement
- Backstroke mirror
- Floor mirror for competitive swimmers

B. 1 unit Breath by Breath Gas Analyzer

CARDIO PULMONARY EXERCISE TEST SYSTEM (Stationary) 1 unit
Specifications

- Description: Cardio Pulmonary Exercise Tests System
- Application : Resting ECG Stress-test ECG
Cardiopulmonary Exercise Tests
Spirometry Indirect Calorimetry
- Measuring method : Breath-by-breath
- Construction : PC Based system with a dedicated trolley
Calibration syringe mounted to the trolley
Dedicated mount for a gas cylinder (2 l, 5 l, 10 l)

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- Patient tubing Free of any electrical cables and connectors

- Flow sensor: without any moving parts

- Single use or disinfectable

- Flow measurement range : \pm l/s

- Accuracy of the flow measurement : \pm % or 50 ml/s

- Resistance : 60 Pa/l/s @ 15 l/s

- Volume measurement range : 15 l

- Accuracy of the volume measurement : \pm % or 50 ml

- CO2 sensor : NDIR: Non-dispersive Infra Red

- Range : 0-10%

- Accuracy : 0,05 %

- Response time: T90 : 130 ms

- Measuring the environmental CO2

- O2 sensor : Electro-chemical cell

- Range: 0-100%

- Accuracy : 0,05%

- Response time T90 : 130 ms

- ECG Resting and stress ECG

- Leads : 12 Standard

- Digital resolution : 3,9 μ V

- A/D Conversion : 13 bits

- Sampling Frequency : 2000 Hz

- Frequency response : 0,05 Hz - 170 Hz

- Measured and calculated parameters:

- load

- Metabolic equivalent of task

- Minute Ventilation

- Tidal Volume

- Breath Frequency

- Oxygen consumption

- Maximal oxygen consumption

- maximal oxygen consumption per body weight

- Carbon dioxide production

- Maximal carbon dioxide production

- Oxygen Uptake Efficiency Slope

- Respiratory exchange ratio

- Resting Energy Expenditure

- Exercise Energy Expenditure

- Heart Rate

- O2 concentration

- CO2 concentration

- End-tidal oxygen tension

- End-tidal carbon dioxide tension

- Forced Vital capacity

- Slow vital Capacity

- Maximum Voluntary Ventilation

- Exercise Inspiratory Capacity

- Exercise End-expiratory Lung Volume

- ST segment Level

→ Double product

• EVALUATIONS:

- Determination of Anaerobic Threshold : Methods : RER=1, V-slope, Ventilatory Equivalents
- Interpretation of Aerobic Capacity
- Pre-post measurements
- Blood gases analysis
- Calorimetry - Fat burning and Energy Expenditure
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- Facility to display spatial orientation of ST segment deviations
- With evaluation of sudden cardiac death according to Seattle criteria

CARDIO PULMONARY EXERCISE TEST SYSTEM (Portable) 1 unit

MOBILE SPIROERGOMETRY SYSTEM

- ultralight, mobile Breath-by-Breath system (580 g)
- telemetric range of over 1,000 m (bi-directional telemetry with Bluetooth® technology)
- chest and back carrying system
- convenient control via Smart Control, laptop or as stand-alone
- 6-hour battery life
- 400 hours data storage
- constant dynamic flow control
- free definable audio signals

Technical Data

O2 Sensor

- type: chemical fuel cell
- range: 0-100 %
- accuracy: < 0.1 Vol %
- T90: < 100 ms
- calibration: every 14 days

CO2 Sensor

- type: NDIR
- range: 0-13 %
- accuracy: < 0.1 Vol %
- T90: < 100 ms
- calibration: 1x per month

Pressure Sensor

- range: 300-1,100 mbar

Volume Turbine, Reusable

- flow: ≤ 20,1 l/s
- accuracy: 50 ml or +/- 2 %
- resistance: ≤ 0,1 kPa/l/s @ 20 l/s
- calibration: 1x daily

Volume Turbine, Disposable

- flow: ≤ 14 l/s

- accuracy: +/- 3 %
- resistance: ≤ 0.06 kPa/l/s @ 14 l/s
- calibration: not necessary

Heart Rate

- smart BT | 3-lead ECG (optional)
- 12-lead ECG (optional)

Telemetry

- range: > 1,000 m
- PC interface: USB 2.0 with Long Range Bluetooth receiver or Bluetooth USB adapter

Operating Conditions

- temperature: -10 ° to +40 °C
- ambient pressure: 500 to 1,050 mbar
- at atmospheres: ≤ 25 % O₂
- relative humidity: 0 to 100 % (non condensing)

Physical Specifications

- dimension (LxWxH): 2x (120 x 110 x 45 mm) · weight: 580 g (without battery)

Electrical Specifications

- PC interface: Bluetooth 2.1
- power supply: battery with 6 hours operating time

Quality Management

- EN ISO 9001, EN ISO 13485

Conformity · guideline 93/42/EWG + 2007/47/EG

- EN ISO 60601-1; 60601-1-2; 10993-1; 15223-1; 1041; 62304; 62366; 23747; 26782

System Requirements Operating System · Windows 7, 8, 10 (32 or 64 Bit) Windows Server 2008, 2012 (64 Bit), 2016 (64 Bit)

2. STRESS DEVICE TREADMILL

- DIMENSIONS : length - Width: 205 - 80 cm Height: 112 cm
- WEIGHT : 163 kg.
- RUNNING BELT : 50 - 142 CM
- Height from floor : 22 cm
- MAX. PERMISSIBLE LOAD : 200 kg
- SPEED RANGE : 0-20 km/h
- SPEED INCREMENTS : 0,1 km/h
- INCLINE RANGE : 0 -25%
- INCLINE INCREMENTS : 0,5%
- SPEED MOTOR : Asynchronous 3 phases 1,5 HP, AC
- ELEVATION MOTOR : 90 Watt DC
- VOLTAGE SUPPLY : 230 v 50 Hz

3. STRESS DEVICE - ERGOMETER

Technical Specification ERGOMETER

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- Display : 128x64
- 20-990 watts power
- controlled mainly from PC or ECG
- User predefined stress program
- Saddle height - continuously adjustable for body heights : 120 cm – 210 cm
- dual mode adjustment of handlebars : height : 90 - 126 cm / angle of inclination: 360°.

4. ERGO SOFTWARE

- Automatic BP measurement support
- ST - settings - J point position modification
- Profile creation
- Stress-test protocol editor
- Signal freeze and review
- Trends of HR, ST, BP and load
- Automatic and manual Load control
- Electrode application indicator
- QT module
- Arrhythmia detection & analysis
- Risk scoring
- ST maps
- Maximum load prediction
- Switch to ramp function
- Calliper for manual interval measurements
- ST analysis tool

Delivery Schedule: Delivery and supply with-in 60 days upon issuance of Notice to Proceed
Please be informed and be guided accordingly.

BAC Bidding Room
Ground Floor, PSC Administration Building
Rizal Memorial Sports Complex,
Pablo Ocampo Sr., St., Malate, Manila


(sgd.) **ATTY. GUILLERMO B. IROY, JR.**
BAC Chair

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