GOVERNMENT MEDICAL COLLEGE AND HOSPITAL, SECTOR-32, CHANDIGARH

Notice for procurement of **i-Stat Blood Analyzer** being 'proprietary article' under Rule 166 of GFR. 2017

The Department of Anaesthesia of this institution intends to purchase having following detailed specifications.

1. Analyzer must be handheld, light weight, battery powered and portable – suitable for use at patient bedside and remote healthcare settings.
2. System must be capable of measuring PH, PCO2, PO2, TCO2, Na+, K+, Cl, Ionized Calcium, Lactate, Hematocrit, Glucose, Urea, Creatinine, Troponin-i, CK-MB, BNP, PT/INR, ACT and Beta HCG on a single device.
3. Analyzer must display calculated parameters including HCO3, Base Excess,SO2, Anion Gap & Hemoglobin.
4. System must be capable of electrochemical measurement using different modes such as amperometric, potentiometric and conductometric.
5. Test results must be quantitative.
6. The calibration procedure must be built-in and automatic with every patient sample
7. Test combinations mustbe available from different Cartridge types based on clinical requirement.
8. Sample type must be Whole Blood from Arterial, Venous, Capillary and Cord Blood samples
9. System must be capable of using small whole blood samples, typically less than 100ul depending on cartridge type.
10. Analysis time: Must be less than 3 minutes for Blood gas, electrolytes, chemistries and less than 12 minutes for immunoassays like cardiac enzymes and Pregnancy test.
11. The system must be capable of automatic measurement of Barometric Pressure.
12.System must be battery operated using 9V NIMH rechargeable batteries.
13. System must be capable of using electronic quality assurance testing at programmable interval.
14. System must be inbuilt with barcode reader for easy identification of patient ID, operator ID, Cartridge and Control lot numbers.
15. System must be capable of Liquid QC scheduling and lockout.
16. System must be capable of monitoring Operator competency and lockout.
17. System must be capable of capturing patient respiratory parameters electronically.
18. System must have option to adjust hematocrit results for patients on cardiopulmonary bypass pump
19. System must be provided with portable printer with IR Link for wireless printing.
20. System must have capability to transmit the patient results to Hospital LIS or HIS using wireless/wifi mode.
21. The analyzer must be USFDA and CE certified.
22. System should not be gas/Reagents based.

Cartridges

1. Single use Cartridge using advanced biosensor chips & in built with autocalibration, individually packed
2. Cartridges Pack size should not be more than 25 cartridges per pack
3. Cartridge must be barcoded and individually packed for easy identification
4. The test cartridges must be self-contained with all reagents, sensors and calibrating solution required to run test.

5. Cartridges must be disposable after each patient test.
6.Cartridges must have the option to store in the refrigerator for longer shelf life and in room temperature for immediate use.

As per knowledge of Anaesthesia Department above said article/ equipment is only manufactured by **M/s Abbott Point of Care** (Principal Firm)and the said firm sells the same of similar through its authorized agent/dealer **M/s Adison Equipment Company** in the Chandigarh region. The proprietary certificate issued by the QEM is attached as Annexure-I.

In case, there is any other, QEM for the above said article, then they are requested in submit their proposal to the Director Principal , GMCH, Chandigarh through e-mail anaesthintensive@gmail.com /hard copy latest by 10 days failing which it will be presumed that there is no other firm who manufacture the required article/ equipment and purchase will be processed and finalized from the available source.

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