
AMENDMENT No. I

Dated: 30.07.2019

Tender Enquiry No. HSCC/PUR/AIIMS-Raebareli /2019/01 dated 04.07.2019

Subject: Amendment to the tender Enquiry Document.

C. ANATOMY MUSEUM

Item No. 1

REVISED SPECIFICATION **HUMAN SKELETON ARTICULATED (REAL SKELETON) (SET)**

1 Description of Function

1.1 Mounted skeleton, one with the various parts connected in such a way as to demonstrate normal relationships and allow motion between components as in the living body.

2 Technical Specifications

2.1 The articulated skeleton should be ideal for teaching the basics of human anatomy.

i. Adult Male (1 No.) & Female (1 No.)

2.2 It should be real skeleton of a life size human skeleton and should show all skeleton parts in high details

2.3 All of the joints, sutures, fissures, foramina and processes should be portrayed with utmost accuracy/ intact.

2.4 Should be supplied with caster roller stand per skeleton.

2.5. It should be neat and clean.

2.7 Warranty : 2 Years

2.8 CMC - NIL

C. ANATOMY MUSEUM

REVISED SPECIFICATION ITEM NO. 2

COMPLETE HUMAN SKELETON SET DIS ARTICULATED (REAL SKELETON)

1. Real skeleton of life size human bone and should show all skeleton parts in high details
2. The disarticulated adult skeleton set should be ideal for teaching the basics of human anatomy
3. It should be neat and clean glazed.
4. Should contain adult disarticulated Skeleton 14 No.
5. Adolescent Skeleton (Disarticulated) 1 No.
6. Warranty : 2 Years
7. CMC : NIL

D. Physiology

Sr.No.1 Exercise Physiology System with accessories

Amendments for Points mentioned below should be read as :-

S.no	Earlier Specification	Specification to be read as
Point no 3	The system for wired and wireless should have a simultaneous recording for all the signals at at least 100 KHz and more parameters with High sampling rate of 100 KHz or more.	The system for wired and wireless should have a simultaneous recording for all the signals and the have Sampling rate .
Point no 4	Simple Plug and play USB connection with software controlled sampling rates, range, filter setting with continuously record and display up to 20 channels of data.	Simple Plug and play USB connection with software controlled sampling rates, range, filter setting with continuously record and display up to 32 channels of data.

Point no 6	Wireless system to record noise free multichannel ECG, R-R interval, Heart Rate, CARDIAC OUTPUT, Respiration rate WITH OPTIONAL ADD ONS like- Skin temp, GSR, Oxygen saturation (SPO2), Accelerometer (XYZ) activity integrated with metabolic parameters should be supplied with Two Bio-shirts (with sensors) and 2 belts of different sizes.	Wireless system to record noise free multichannel ECG, R-R interval, Heart Rate, Respiration rate Skin temp, GSR, Oxygen saturation(SPO2), Accelerometer (XYZ) activity integrated with metabolic parameters should be supplied with 6 belts of different sizes or 2 shirts.
Point no 9	The wired and the wireless components should work independently and simultaneously to record and analyze all the required parameter in a single screen for interpretation and computation of results.	The wired and the wireless components should work independently and simultaneously to record and analyze all the required parameter in a single screen and same software for interpretation and computation of results.

ITEM NO. 3. Multichannel Physiograph, 3 channel, complete with accessories

REVISED SPECIFICATION

3 channels student digital physiograph with accessories.

The software should have step by step instructions, protocol and experimental design for performing various experiments in physiology teaching applications. It should have sample data for animal experiments for demonstrating to the students.

1. The System should include hardware software and other related accessories for Pulse transducer, respiration , Blood pressure, Grip force, ECG,HRV, GSR, Temp etc.
2. Individually selectable input sensitivities, analog output for stimulation or pulse generation, high speed USB, built- in isolated stimulator, built-in dual bio-amplifier and a powerful internal processor along with low- and high-pass filters.
3. ECG (Lead I, II, III, aVL, aVF, aVR etc for real time cardiac axis & vector analysis.
4. ADC Configuration: Resolution: 16 bit, each channel has its own ADC.
5. Maximum sampling rates: 400 KHz (aggregate)
6. Filter – Low Pass: 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000, 2000 Hz and anti-alias, high-pass filters, Band Pass Notch, Mains Digital.
7. Bio-Amplifier: - 3 Channels, Range:- $\pm 20\text{mV}$ to $100\mu\text{V}$.
8. It should have various automatic analysis modules for ECG, HRV, Blood Pressure. Shall be supplied with all transducers.
9. Online & offline analysis with various export options like MATLAB, Excel, QuickTime, Text etc.
10. Isolated Stimulator Output.
11. Pulse duration: 50–200 μs (software-selectable) & Output current: 0–20 mA.

12. Pulse rate: Software-selectable, to a maximum of 20 Hz and 200 μ s for safety.
13. Shall be provided with computer with following configuration. : i 5 /7th generation Windows 10 ,Professional 64 bit, Processor: Core2Duo of higher, RAM: 4GB or higher, 250 GB hard disk or HDD, CD/DVD Optical Drive, Screen Resolution 1024x768 or higher.
14. Power input to be 220-240VAC, 50Hz.
15. ISO and CE certification shall be provided.

All other terms and conditions of the bid document shall remain unchanged.

**Sr. CGM-I
HSCC (India) Ltd**