

I/1359/2022

ALL INDIA INSTITUTE OF AYURVEDA(AIIA)**GAUTAMPURI, SARITA VIHAR, MATHURA ROAD,
DELHI 110076 (India)****Website: www.aiia.gov.in****Email: central-store@aiia.gov.in****Phone Number 011-26950401****Notice No.: M-15/05/2021-AIIA****Dated: 3rd January, 2022****Sub:-Notice Inviting Objections/Comments on Proprietary Article Procurement for AIIA,
Delhi-reg**

A request has been received from Dr Jonah Sandrepogu, Associate Professor, Head of the Department, Kayachikitsa, for procurement of "Comprehensive Cardiovascular Examination Simulator" which is an proprietary article of Kyoto Kagaku and procurement is proposed under PAC.

2. The specifications of the equipment, PAC certificate from the Department and certificate from the supplier are attached herewith.

3. The above documents as mentioned in para 2 are being uploaded in public domain to submit objections, comments, if any from the manufacturer/supplier regarding proprietary nature of the equipment/items within 15 days from the issue of this notice (i.e. 18.01.2021) giving the reference No. M-15/05/2021-AIIA dated 03.01.2022. The comments/objections should be received by office of Store Officer, AIIA over email address central-store@aiia.gov.in. In case, no objections received, it will be presumed that any other vendor is having no comment to offer and case will be decided on merits to finalize the purchase.

(Dr Umesh Tagade)
Joint Director(Admn)

Encls:

PAC Certificate

Certificate from Supplier

Technical Specifications of equipment

Dated: Dec 6th , 2021**Letter of Confirmation**

Dear Sirs,

We hereby certify that

a) Comprehensive Cardiovascular System Examination (Simulator) Model Cardiology Patient Simulator "K" MW10 with facility of 36 preprogramed simulation cases for normal heart, heart diseases and arrhythmia with corresponding heart & respiratory sounds, 52 cases of Arrhythmia and ECG simulation, natural sound propagation and transition across cheesy chest wall, Facility of Auscultation with real stethoscope at aortic, pulmoni c, tricuspid and mitral area for comprehensive teaching and training in bedside clinical examination

AND

b) Comprehensive Chest and Lungs Examination System (Simulator) Model "LSAT" Model MW28 with facility of simulating 36 types of lung sounds with natural propagation and sound transition across the chest wall, facility of auscultation of lung sound with normal stethoscope, each case complete with patient histories illustration and radiological data for comprehensive Teaching and training of Auscultation techniques are Proprietary product of Kyoto Kagaku Co. Ltd. Japan.

We also confirm that above products with these features & published specifications are not manufactured by any other manufacturer in the world and are registered as US patent No. 6,461,165 and Japanese Patent No. 2990602 and 3626087.

We are pleased to confirm that BR Biomedical (P) Ltd D-71, Malviya Nagar, Main Road, New Delhi -110 0 17, India is our exclusive distributor for above mentioned product in India.

This certification/letter is valid till 31st December 2022 if not renewed.

Your faithfully,

**Joji Araki****Senior Manager of Overseas Sales**

For and on behalf of Messrs Kyoto Kagaku Co. Ltd., Japan



UNDERTAKING FOR PROPRIETARY ARTICLE

To
The Director
All India Institute of Ayurveda,
Mathura Road, Gautam Puri,
Sarita Vihar, Delhi – 110076

Sub: Submission of Undertaking for proprietary article

Sir/ Madam,

I Vikas Tyagi (Product Support Manager Authorized person of M/s BR Biomedical (P) Ltd hereby undertake that:

1. **Comprehensive Cardiovascular System Examination (Simulator) Model: MW10** is an article of proprietary nature, and we are the authorized distributors of the said item.
2. This item is solely manufactured by **Kyoto Kagaku Co. Ltd. Japan** and not by any one else in the entire country/ world.
3. Rate quoted by us vide offer No.: NA dated NA against your enquiry No. NA Dated NA
4. Our rates for the said simulator with same specifications will not be higher than those quoted to other Government/ Public Sector/ Private Organization.
5. In case of supplies or quotes with same specifications will found at lower rate to other Government/ Public Sector/ Private organization, the excess amount will be voluntarily pass on (the price difference) to AIIA, Sarita Vihar, Delhi with immediate effect.

We hereby certify that all the statements made and information supplied in the statements are true and correct to the best of my/ our knowledge. We understand that if any information found incorrect, we shall be liable to be banned from doing business with All India Institute of Ayurveda (AIIA), Delhi and/ or prosecuted

Date: 16.12.2021

Place: New Delhi

(Signature of Authorized Person)

Designation:

Official seal:



Comprehensive Cardiovascular Examination simulator.

1. State of the art clinical training system for comprehensive cardiovascular examination simulator for bedside clinical examination Teaching and training using ECG data and Stethoscope
2. It must be life sized Torso model up to mid thigh, fixed on a platform trolley with Large monitoring screen (Min 20") for comprehensive bed side clinical examinations.
3. The system should have heart and breathing sounds recorded from the real patients and not computer generated synthetic sounds.
4. Heart and breath sounds must have natural propagation and sound transitions across chest wall
5. The system must allow training in observation ,auscultation, palpation of heart and breathing sounds as well as cardiac pulses , jugular vein and apex beat
6. The system must simulate realistic Respiration cycle to help students understand respiratory related phenomenon
7. It should have anatomically correct Auscultation ,palpation and observation sites on life sized manikin as follows
 - a. 4 Sites for Heart Sound auscultation.
 - b. 8 sites for arterial pulse palpitation
 - c. 2 sites for Jugular vein observation
 - d. sites for apex beat palpation.
 - e. sites for breathing sound auscultation.
8. It must be suitable for training of students in identifying and differentiating heart sounds such as S1,S2,S3,S4 and systolic & diastolic Murmurs.
9. It must have high quality reproduction of clinical examinations scenarios on a life size torso manikin body that comprises minimum 75 cases of-
 - a. Normal heart simulation - S2 split (-) HR60/72/84 , S1 split (+), S2 split (+), S2 wide split, S3 gallop, S4 gallop, pulmonic ejection sound, S3 and S4 gallop, physiological murmur mid-systolic click sound,
 - b. Heart disease simulation- aortic stenosis, mitral regurgitation, mitral stenosis, aortic regurgitation, hypertrophic cardiomyopathy, mitral steno-regurgitation, pulmonic valvular stenosis, atrial septal defect, ventricular septal defect, tricuspid regurgitation, Acute mitral regurgitation, Patent ductus arteriosus, Mitral valvular prolapsed, Dilated cardiomyopathy.
 - c. Arrhythmia simulation- Sinus arrhythmia, Sinus tachycardia, Sinus bradycardia, Ventricular premature contraction (1,2,3),Sino-atrial block, atrio-ventricular block, Atrial fibrillation, Atrial flutter

- d. ECG arrhythmia simulation - Normal sinus R, Sinus tachycardia, Sinus arrhythmia, Apc solitary, Apc bigeminy, Ectopic pacemaker, Wondering pacemaker, Coronary sinus R, Sinus bradycardia, SS syndrome, Atrial fibrillation, Atrial flutter, Atrial flutter fib, Atrial flutter, AV block, AV block & crbbb, AV block (digital, mobitz), AV block (3:1&4:1), AV & crbbb, Paroxysmal atrial tachycardia, AV junctional R (svst), AV junctional R (pat), AV junctional R, AV junctional contraction, VVI pacemaker, Atrial pacemaker, Ventricular pacemaker, AV sequential pacemaker, ICRBBB, CRBBB, CLBBB, , CLBBB (by ami), wpw syndrome, vpc (solitary, quadrigeminy, trigeminy, bigeminy, couplet), pvc (repetitive, R-on-T type), non-sustained VT, ventricular (tachycardia, flutter, fibrillation), ventricular R (sinus conduction), accelerated ventricular rhythm, agonal rhythm.
10. It must simulate minimum 50 cases of arrhythmia along with real-time dynamic ECG Chart for confirmation of findings
11. It must have minimum 30 cases of total patient simulation including cases of normal Heart, Heart Diseases simulation, and arrhythmia simulation with corresponding sounds, pulses, apex beats and ECG
12. System must provide explanation of all simulation/cases and its management to facilitate self-learning and repeated training
13. It must have a large Touch screen to show ECG, Jugular Venous Pulses (JVP), Carotid Arterial Pulse (CAP) and Apex Cardiogram (ACG)
14. Each case can be freeze framed for in depth learning and should also show the HR, BP, RR and temperature of patient.
15. The cardiology model unit must reproduce heart sounds and murmurs which can be auscultated using real stethoscope from Aortic, Pulmonic, Tricuspid and Mitral areas.
16. It must have bilateral palpable cardiac impulses at Brachial, Radial, Carotid, femoral arteries linked to the simulated scenario and underlying physiology of the patient.
17. It must have Apex Beat Palpable at RV, LV, with Right ventricular lifting, Left ventricular heaving and left ventricular enlargement
18. It must be possible to arrange/customize the display of the monitor as per training and examination needs
19. It must be supplied with compression system with computer controls for real life like experience of arterial palpitation as well as abdominal respiration.
20. It must provide physical finding training in bedside cardiovascular clinical examination skills with minimum 75 cases of total patient, arrhythmia and ECG simulation.
21. It must give actual training by using actual diagnostic instruments such as real stethoscope,
22. It must have facility for repeated practice for learners to differentiate various heart sounds & murmurs using their own ear.
23. It must have tracheal and bronchial breath sounds and abdominal movements to facilitate understanding of respiratory related phenomenon

24. It must be operated by a wireless controller/tablet with facility to operate upto five simulators simultaneously with one tablet during examination and for efficient scenario based training involving more than one patient and to enable learning with comparison between related cases.
25. It must be possible to program a playlist of scenarios according to teaching needs
26. The training model must have the dual facility of (A) Hearing the murmurs and other sounds by doctors stethoscope for individual students experience (B) Possibility of playing sounds on speaker system for group /classroom teaching by faculty .
27. It must have an external speaker integrated in the trolley for demonstration and large group studies.
28. The complete training system including manikin, compression system, computer, monitor and speakers should be integrated in a wheeled trolley for easy movements in the department as per training needs. The complete system should be pre wired and ready to use without any set up time.