HSCC/SJH/Med.Eqpt./2016 Date:**20.02.2017.**

Amendment-VI

Ref.: Tender No. HSCC/SJH/Med.Eqpt. /2016/27 dt. 13.1.2017

Sub.: Procurement of Medical Equipment for New Emergency Block & Super-Specialty Block at Safdarjung Hospital, New Delhi.

For **item No. 5 Stress Test System** Technical Amendment have been received in view of the pre bid meeting queries submitted by the prospective bidders it is to be uploaded on the website today and it proposed to revise the bid submission date from20.02.2017 to 27.02.2017. for item No. 5

For Item No. 6 Digital Flat Panel Radiography System, Due to inadequate response the bid submission date extended to 20.02.2017 to 27.02.2017.for Item No. 6

Revised Technical Specification. **Item No. 5**

COMPUTERISED STRESS TEST SYSTEM (2 Nos)

A. **Description of Functions**: A stress test system is used to detect ECG evidence of exercise induced arrhythmia during physical exercise.

B. **Technical Specifications**:

1. System should acquire and analyze up to 12 leads.
2. System should run on Window 7/Window XP operating system and should be provided with the computer system with the following configuration: Pentium CPU with DVD, minimum 17" Color monitor; minimum 250 GB Hard drive, Mouse, Keyboard and UPS for the CPU.\
3. Should provide standard Full Interpretation of Supine ECG with reasoning.
4. Display of real time 12 lead diagnostic quality ECG waveform, average complexes beat of all 12 leads with superimposed color comparison along with digital value of ST level and slope. It should also display of enlarged complex and should have the facility of dynamic lead selection for maximum ST changes. Display of 1mm graph on the monitor should be similar to the graph on the recording paper.
5. Automatic detection, display, Storage and review of arrhythmia, Heart Rate, Double Product and METS. It should have online HR METs, and ST running trends available on the screen during exercise.
6. System should provide risk assessment tools like Stroke and Duke Tredmil score.
7. System should have ability to manual edit of J & Isoelectric point during exercise. Filters for line frequency and special filters to reduce noise and baseline artifacts without compromising the ECG frequency response.

8. System should have full disclosure play back, review and storage of patient ECG raw data for unlimited numbers depending upon size of the hard disk. The unit should have the ability to readjust "J-ST" interval measurement $\pm$ 1 m sec points and generate a new report from stored raw ECG data.
9. System should provide multiple and customizable printing formats as per user's choice on A4 size high resolution thermal printer for online real time printings. It should also be possible to print reports on laser printer.
10. System must have ECG trigger output to interface with external automatic devices.
11. Should be supplied with Heavy Duty Imported Treadmill with following features:

A. Motor of Minimum 3 H.P
B. Walking surface of minimum 60"
C. Two Stopping Modes

D. Emergency Stop Switch

E. Speed ranging from 0 to 12 mph and grade of 0 – 20% with suitable 3 KVA stabilizer

F. maximum Weight bearing capacity of 200 Kg

G. Should be US-FDA approved

12. Should be provided with a Non Invasive Blood Pressure Monitor which can be programmed to take the blood pressure automatically with each stage

13. Final reports must be exportable from the system in Word/ PDF.

14. Original product catalogs with complete technical specifications to be enclosed for main and allied equipments being offered

15. Should be provided with Electrode fixing Clip to minimize artifacts

16. Optional:

A. Stress ECG interpretation

C.Quantity: 1. Main system including Treadmill, Computer (17") with analyzing software : 2 Nos for Each

2. UPS for at least 30 minutes backup: 2 Nos

3. Laser printer : 2 Nos

3. Non Invasive Blood Pressure Monitor: 2 Nos

4. ECG module: 4Nos

5. Patient cable with Electrode fixing Clip: 4 Nos

6. Good quality computer table(Durian/Godrej etc) for the system: 2 Nos

8. Pouch for ECG module: 2 Nos

D .Environmental factors

1. Shall meet IEC-60601-1-2:2001(Or Equivalent BIS)General Requirements of Safety for Electromagnetic Compatibility. Or should comply with 89/366/EEC; EMCdirective.

2. The unit shall be capable of being stored continuously inambient temperature of 0 -50deg C and relative humidity

3 The unit shall be capable of operating continuously in ambient temperature of 10 -40 deg C and relative humidity of 15-90%

E. Power Supply

1. Power input to be 170-270 V AC, 50Hz fitted with Indian plug.

F. Standards, Safety and Training

1. Complete systems including Treadmill Should be US FDA approved product

2. Manufacturer/Supplier should have ISO certification for quality standards.

G. Documentation

1. User/Technical/Maintenance manuals to be supplied in English.

2. Certificate of calibration and inspection.

3. Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt

out.

4. List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.

5List of important spare parts consumables and accessories with their part number and costing should be provided. Price of consumables, accessories to be fixed for two years from date of installation of machine.

H. Other requirements

1. Model should be latest gereration**.**
2. Should have local service facility.
3. comprehensive warranty for 5 years and AMC/CMC for next five year**s.**
4. Availability of spares to be ensured for minimum 10 years period
5. Demonstration is to be given before approval**,** if required. Working demonstration after installation is must**.**

All other tender terms and conditions remain unchanged

Amendment to be issued will be uploaded on website www.Tenderwizard.com/HSCC & www.hsscltd.com

Medical Superintendent
VMMC & Safdarujung Hospital