AMENDMENT – II Dated 21.03.2017

Ref : Tender No. HSCC / LGBRIMH/Medical Eqpt/2017 dt. 23.02.2017

Tender No. HSCC/LGBRIMH/Medical EQUIPMENT /2017/Dated 23.02.2017 Item No. 7 Ventilator			
Sr. NO	**Tender Specification**	**M/s Wipro GE Pre BID Meeting Queries /Suggestions**	**Final Recommendation**
Main Heading	The ventilator should be microprocessor based and work with hospital external high pressure line/ external compressor to be used in ICU for Adult, Paediatric and infant patients. It should be easy to use having a color inbuilt touch screen at least 12 inch or more in size with screen lock, intuitive menu structure, inbuilt ETCO2 monitoring , Mode preset capability, Pressure bar graph/ breath indicator and prioritized alarms along with the following settings/ features .		No Change
1.	**Ventilation Mode**		
i.	Volume Controlled ventilation(Assisted / Control) VCV		No Change
ii.	Pressure Controlled ventilation (Assisted / Control) PCV		No Change
iii.	Synchronized intermittent mandatory Ventilation V-SIMV AND P-SIMV		No Change
iv.	Pressure support ventilation (Spont, CPAP, PEEP) PSV		No Change
v.	Non invasive ventilation VCV, PCV, SIMV, PSV		No Change

vi.	Pressure support with Volume assured VAPS		No Change
vii.	Airway pressure release ventilation APRV/BI-PHASIC VENTILATION/BIPAP		No Change
viii.	Pressure regulated volume control PRVC		No Change
ix.	Continuous positive airway pressure CPAP		No Change
2.	**Ventilation Settings & Ranges**		No Change
i.	Tidal Volume 20 ml to 2000 ml or more		No Change
ii.	Inspiratory Peak Flow 0 to 200 LPM (Compensated)		No Change
iii.	Maximum Inspiratory Peak Flow > 200 l/min		No Change
iv.	(Depending on gas supply pressure)		No Change
v.	Respiratory Rate upto 100 BPM		No Change
vii.	SIMV Respiratory Rate v1 to 60 BPM		No Change
viii.	Inspiratory plataeu 0 to 60 % of IT		No Change
ix.	FiO2 21% to 100%		No Change
x.	Insp. pause, Exp Pause, sustained exhalation, programmable sigh	programmable sigh Request to kindly Delete this delete this point due to obsolete feature, manual breaths can be given as when needed.	Insp. pause, Exp Pause, sustained exhalation
Xi.	**Inspiratory Trigger (**pressure and flow trigger)		No Change
3.	**Monitored Parameters**		
i.	Respiratory Phase & Type, Respiratory Rate, Exhaled Tidal Volume, Exhaled Min. Volume Total, I : E : Ratio, Peak Inspiratory Pressure, Average Pressure, Plateau Pressure , End Expiratory Pressure, %		No Change

	Oxygen Delivered, f/Vt (RSBI), etCo2(End tidal Co2)		
4.	**Respiratory Mechanics Maneuvers**		
i.	Static Compliance and Resistance		No Change
ii.	Low Inflation flow (LIP) and upper inflection point (UIP)		No Change
iii.	P 0.1 and Maximum Inspiratory Pressure		No Change
5.	**Displayed Trends Values for 48 hours at least**		
i.	Graphics Module with		No Change
6.	**Scalars**		
i.	Flow vs. Time		No Change
ii.	Pressure vs. Time		No Change
iii.	Adjustable Time Scale.		No Change
7.	**Loops**		
i.	Flow / Volume		No Change
ii.	Pressure / Volume		No Change
iii.	Pressure/flow the screen should display atleast 3 loops/ curves	Pressure/flow the screen should be display atleast 2 loops and 3 curves simultaneously. the Display amended will enable with holistic view of the patient lung dynamics.	Pressure/flow the screen should display atleast 2 loops and 3 curves simultaneously
8.	**Facility for Freeze Screen**		
i.	Individual Analysis of Each Curve		No Change
ii.	Loop Save and Overlay Function		No Change
iii.	Individual Analysis of Each Loop		No Change
9.	**Calculated Values**		
i.	Inspiratory pause, Expiratory Pause		No Change
10.	**Should have audio-visual alarms alongwith appropriate message for**		
i.	Inspiratory pressure (High), circuit, FiO2 (High/Low), Resp Rate, Tidal volume,		No Change

	minute ventilation, gas failure, apnea		
ii.	The ventilator should have built-in programmable nebulizer.	The ventilator should have buil in programmable nebulizer with capability of producing 3-4 micron size aerosols.	The ventilator should have buil in programmable nebulizer with capability of producing 3-4 micron size aerosols.
11.	**AC Power & Battery Indicators**		
i.	• Loss of AC Power		No Change
ii.	• Charging, In Use, Low		No Change
iii.	• Main Battery in Use		No Change
iv.	• Should have atleast one hour built in back-up		No Change
12.	**Self Test / Self Diagnosis**		No Change
i.	• Quick Self Test and Extended Self Test		No Change
13.	**Interface Port**		No Change
i.	RS - 232 Outputs and Remote Communication		No Change
ii.	Ventilator should be EUROPEAN CE/FDA APPROVED. The manufacturing origin should be EUROPEAN/US.		No Change
14.	**Scope of supply**		No Change
i.	Ventilator 01No Air supply unit 01No **(Optional)**		No Change
ii.	Patient Tubing (adult) –02 Nos / Unit		No Change
iii.	Patient Tubing (paed) –02 Nos / Unit		No Change
iv.	Nebuliser Kit -05 Nos / Ventilator		No Change
v.	NIV Mask with harness (Reusable)- 02 Nos / Ventilator		No Change
vi.	Humidifier (F&P 810) with chamber- 01 No / Ventilator		No Change
Vii.	Bacteriological filters- 10 Nos / Ventilator		No Change

viii.	Air compressor from the same manufacturer with change over facility and it should be European CE / FDA certified	Air Compressor from the same manufacturer or OEM with changeover facility and it should be European CE and FDA certified with the ventilator.	Air Compressor from the same manufacturer or OEM with changeover facility and it should be European CE and FDA certified with the ventilator.
15.	Warranty-5 years		No Change
			<u>Point to be Added :</u> Paramagnetic O2 Sensor or supply of free O2 Cells under warranty and CMC period. 1. Supply of 2 reusable autoclavable flow sensors. 2. Supply of 2 reusable autoclavable able expiratory valves.

Tender No. HSCC/LGBRIMH/Medical EQUIPMENT /2017/Dated 23.02.2017 <u>Item No. 8 Blood Gas Analyser</u>			
Tender Specification	**M/s Edif Medical System**	**M/s CL Micromed**	**Final Recommendation**
2. Essential Measured parameters; pH, pCO2, pO2, SaO2, tHb, Barometric Pressure, Na+, K+, Ca++, Cl-, Bl urea and Sr Creatanine & Blood sugar. All these parameters should be measured simultaneously	The Department wants to buy a Blood Gas Analyser not Chemistry Analyser there is no relevance of adding Bl Urea and Sr. Creatinine Parameter in Blood Gas Analysis as no consultant refer this parameters during surgery or in icu , as chemistry parameter needs to done mainly on serum or on venous Blood, But with Blood Gas Analyzer , the sample has to be Arterial Blood. So there is no relevance to add parameters like Bl Urea and Sr. Creatinine . just by adding this unwanted chemistry parameters the cost of the instruments goes very high ad also it supports to a specific company. So specification should be as : the essential parameter should be as: pH-pCO2, pO2, SaO2, tHb, Baromeric Pressure, Na+, k+,ca++, Cl, and Blood Sugar.	Essential Mesured Parameters : Ph, Pco2, Po2, tHb, Barometric Pressure , Na+/ k+ , Ca++, Cl- Lactate and Blood sugar . All these parameters should be measured simultaneously.	Essential Mesured Parameters : Ph, Pco2, Po2, tHb, Barometric Pressure , Na+/ k+ , Ca++, Cl- Lactate and Blood sugar . All these parameters should be measured simultaneously.
3. Calculated parameters should include BE, BE ecf, HCO3, Lactate, Anion Gap	Calculated Parameter should include BE , BE ecf, Hco3 std, HCO3 ACT, Anaion Gap, HCT, ect.	Calculated parameters should include BE , BE ecf, Hco3, SaO2, Anion Gap etc.	3. Calculated parameters should include BE, BE ecf, HCO3, Lactate, Anion Gap etc.

etc.			
4. Sample volume-less than 120ul.	Sample volume should be less than 200 ul		Sample volume should be less than 200 ul
5. Fast analysis time – less than 72 sec.			No Change
6. Maintenance free electrodes with individual electrodes ON/OFF facility.		Maintenance free/ low Maintenance electrodes , with electrodes individual replaceable	Maintenance free/ low Maintenance electrodes , with electrodes individual replaceable
8. Continuous reagent level monitoring with graphic display.		Continues reagent level monitoring facility should be there alarm	8. Continuous reagent level monitoring with graphic display.
9. Data display on well-illuminated, adequate size LCD colour touch screen display.		Data Display on well illuminated ,4” to 5” LCD display with soft touch pad operation.	Data Display on well illuminated ,4” to 5” LCD display with soft touch pad operation.
10. Data print out on built in graphic printer.		Data print output on built printer.	Data print output on built in printer.
11. Built in auto Quality control facility.		Built in Quality control facility should be there.	Built in Quality control facility should be there.

Tender No. HSCC/LGBRIMH/Medical EQUIPMENT /2017/Dated 23.02.2017 <u>Item No. 3 Digital EEG System</u>				
1.	**<u>M/s Chroma N.V</u>**	**<u>M/s Allenger</u>**	**<u>M/s Arena Medical</u>**	**Final Recommendation**
Technical Specification				
EEG system should have at least the following essential specifications				
1. The computer should be supplied with the system, after passing the strict in-house quality checks by the manufacturer to comply with medical equipment standard.	The computer should be supplied with the system, after passing the strict quality norms stipulated by the manufacturer. And To comply with the world standard		Generally the EEG manufacturer stock in bulk computer / Laptop, possibly the quoted model may be outdated by the time it actually supplied / installed at the consignee. site. Laptop PC should be supplied with the system and certified by the manufacturer to comply	The computer / Laptop PC should be supplied with the system, after passing the strict quality norms stipulated by the manufacturer. To comply with the world standard

			with EEG Standard"	
4. 32 channel EEG with minimum Bipolar and 2 DC channels with SpO2 & CO2 monitoring capability.		Bipolar and 2 DC channels with SpO2 monitoring capability.	Our Suggestion: The tender has published by the nomenclature "Digital EEG Machine" C02 is purely part of Sleep Study (Polysomnography), Also there is no requirement of DC channels in EEG. Request to amend this point to read as "32 channel EEG with	32 Channel EEG with minimum of 4 bipolar with Spo2 monitoring required. C02 monitoring if available is preferred.

			minimum 4 Bipolar, 1 DC Input and Built in Sp02 monitoring capability"	
7. Should be able to perform Skin electrode impedance check at both junction box and computer to give the exact impedence in numeric values.		Should be able to perform Skin electrode impedance check through computer to give the exact impedance in numeric values.		Should be able to perform Skin electrode impedance check through computer to give the exact impedance in numeric values.
11. Should be able to support multiple users, with individualized operational settings.		Point Should be Delete		No Change
12. EEG Data should be ported to an external storage media for reviewing in any PC with reformatting and remontaging with out the use of any additional software.				No Change
14. Computer Specifications –				
The equipment should have minimum specifications as follows. a. Core i5 Laptop PC, 4 GB RAM, 1 TB Hard Disk, 3 USB ports or better b. Windows 7 operating system c. Built in CD	The equipment should have minimum specifications as follows. a. Core i7			The equipment should have minimum specifications as follows. a. Core i7 Laptop PC, 4 GB RAM, 1 TB Hard Disk, 3

RW/DVD read combo drive d. Laser jet Printer	Laptop PC, 4 GB RAM, 1 TB Hard Disk, 3 USB ports or better b. Windows 10 operating system c. Built in CD RW/DVD read combo drive d. Laser jet Printer			USB ports or better b. Windows 10 operating system c. Built in CD RW/DVD read combo drive d. Laser jet Printer
Point No. 15(1) "ECG Elimination filter in both acquisition and review mode"			Our Suggestion: Our software have built in ECG elimination filter, However the software doesn't have an radio Button available on screen separately. It comes as standard feature with our software and cannot be physically verified. Our request: To delete this point.	**Point No. 15 (1)** The Point stands deleted.
g) Low filter settings: 0.08 Hz to 159 Hz		Low filter settings: 0.08 Hz to 10 Hz		Low filter settings: 0.08 Hz to 10 Hz
h) High filter settings: 15 Hz to 300 Hz		High filter settings: 15 Hz to 100 Hz		High filter settings: 15 Hz to 100 Hz
k) Sampling rate: 100, 200, 500 Hz & 1KHz		Sampling rate: 250Hz /ch		Sampling rate: 250Hz /ch
17. System should be US FDA approved product		System should be US FDA or		System should be US FDA or European approved

		European approved product		product or more

Tender No. HSCC/LGBRIMH/Medical EQUIPMENT /2017/Dated 23.02.2017 Item No. 1, 32 Channel Digital EEG System

1. 32 channel Digital EEG	M/s Allenger	M/s Chroma NV	Final Recommendation
Specification			
Amplifier :			
a. Sampling Frequency : 2000 Hz	Sampling Frequency : 250 Hz		b. Sampling Frequency : 2000 Hz
c. Should have facility to extend the amplifier electrode connection to small headbox so that patient can carry the electrode box to washroom, if required.	Should be delete		The Point stands Deleted
d. USB Microphone, should work without batteries.	Microphone, should work without batteries.		Microphone, should work without batteries.
Acquisition Software:			
a. Continuous impedance testing of electrodes during acquisition video data editing capabilities	Should be delete		The Point stands Delete

with and without EEG data.			
Accessories for the units must include: a. EEG Cup Electrodes Gold Plated – 500 Pcs. b. EEG Paste – 10000 Gms		a. EEG Cup Electrodes Gold Plated – 50 Pcs. b. EEG Paste – 10(228 gm)	a. EEG Cup Electrodes Gold Plated – 50 Pcs. b. EEG Paste – 10(228 gm)
Recording Computer: Latest branded Core i7 processor with 8 GB RAM or better, 4 TB SATA HDD, DVD Writer, Optical mouse, 19" flat panel TFT, Laser Printer, UPS, optical mouse, key board. Good Quality Metallic Trolley with Caster		Latest branded Core i7 processor with 8 GB RAM or better, 4 TB SATA HDD, DVD Writer, Optical mouse, 19" flat panel TFT, Laser Printer, UPS, optical mouse, key board with window 10 OS Good Quality Metallic Trolley with Caster	Latest branded Core i7 processor with 8 GB RAM or better, 4 TB SATA HDD, DVD Writer, Optical mouse, 19" flat panel TFT, Laser Printer, UPS, optical mouse, key board with window 10 OS Good Quality Metallic Trolley with Caster
Photic Stimulator:			
Should be strictly based on White LED, FDA approved for medical EEG use.	System should be US FDA or European approved product from notified body for medical EEG Use		System should be US FDA or European approved product from notified body for medical EEG Use
The quoted model must be Strictly US FDA.	System should be US FDA or European approved product from notified body		System should be US FDA or European approved product

	for medical EEG Use		from notified body for medical EEG Use

Tender No. HSCC/LGBRIMH/Medical EQUIPMENT /2017/Dated 23.02.2017 <u>Item No. 6, EMG/NCV/EP System</u>

Tender Specification	M/s Allenger	M/s Chroma NV	Final Recommendation
* Built-in audio speaker should be available for output of both live signals as well as playback of recorded data		Built In External audio Speaker should be available for output of both live signals as well as playback of recorded data.	Built In External audio Speaker should be available for output of both live signals as well as playback of recorded data

		Reason: the main purpose is to having the feature for audio speaker for output of both live signals as well as so now it is either built in external , no metter as our system is having external audio for this feature	
Electrical Stimulator			
* The stimulus rate should be varied between: 0.06-200 stimuli per second (Hz)	The stimulus rate should be varied between: 0.02,0.05,0.10,0.20,0.50,1.0 ms		No Change
System Software			
* Data should be repositioned, superimposed, or shown in a rastered mode.	Point Should be delete		No Change
* Free run EMG data and sound should be recorded for up to 360 seconds for 4 channels.	Free run EMG data and sound should be recorded for up to 300 seconds for 4 channels.		* Free run EMG data and sound should be recorded for up to 300 seconds or more for 4 channels.
* The averager display	The averager display sensitivity should be		No Change

sensitivity should be set from 0.001µV/division to 10 mV/division in 22 steps.	set from 0.001,0.2,0.5,1,2,5,10,20,50,100,200,5000, 1,0.2,0.5,1,2,5,10,20,50,100,200,500 µV/div: 1,2,5,10,20 µV/div:		
* UL 60601-1 Medical Electrical Safety Standard (USA)	* UL 60601-1 Medical Electrical Safety Standard (USA) or IEC 60601-1 Medical Electrical Safety. ERTL		* UL 60601-1 Medical Electrical Safety Standard (USA) or IEC 60601-1 Medical Electrical Safety. ERTL
* US FDA approved system	US FDA or European CE Approved system from Notified Body.	US FDA or European CE approved system. US FDA follows the same safety standard such as Europe Canada Australia Japan etc. all of them follow the IEC 60601 Series standard laid out by International electrochemical commission which international standard organization with 82 member countries and 82 affiliate counties.	US FDA or European CE

Tender No. HSCC/LGBRIMH/Medical EQUIPMENT /2017/Dated 23.02.2017 Item No. 12, Brainstem Evoked Response Audiometer with ASSR

Tender Specification	M/s Medilife Technologies Suggested Specification	M/s ALPS International Pvt Ltd	Final Recommendation
Upgradable with OAE ASSR & VNG NCT	BERA with ASSR and Up gradation for OAE Reason: This tender is for audio logical instrument BERA with ASSR NCT (Nerve Conduction Test) and VNG (Videonystamography) are neurological Tests. It is not possible for any supplier to upgrade NCT AND VNG in the same equipment along with BERA and ASSR . BERA is an audio logical test which provides information regarding auditory function and sensitivity . VNG is a vestibular test designed to document a person's ability to follow visual objects with their eyes and how well the eyes respond to information from the vestibular system NCT test commonly used to evaluate the functions especially the ability of electrical conduction of the motor and sensory nerves of the human body. These test are performed by medical specialist such as specialist in clinical	NCT Should be Delete	Upgradable with OAE ASSR & VNG

	neurophysiology physiatrists. therefore VNG NCT are not Audio logical test these can be only provided in separate equipments Hence this cannot be called as Up gradation.		

Tender No. HSCC/LGBRIMH/Medical EQUIPMENT /2017/Dated 23.02.2017 <u>Item No. 14,</u> Pure Tone Audio Meter

Tender Specification	**M/S ALPS International Pvt Ltd .**	**Final Recommendation**
Medical CE	Request to Delete	Stands Delete
Certification : CE (Europe	Request to Delete	No Change
Request to Add	ISO Certified	ISO Certified
Request to Add	As per ANSI Stand`ards	As per ANSI Standards
Request to ADD	VRA (Visual Reinforcement)Device /Doll test Facility.	VRA (Visual Reinforcement) Device / Doll test Facility.

Tender No. HSCC/LGBRIMH/Medical EQUIPMENT /2017/Dated 23.02.2017 <u>Item No. 1</u> ECT Machine		**FINAL RECOMMENDATION**
<u>ECT Machine</u> **<u>Tender Technical Specifications:-</u>** 1. Should have constant current bi-directional square wave Brief Pulses. 2. Should have ECT with EEG, ECG, EMG, OMS (Optical Motion Sensor) monitoring. 3. Parameter display on LCD as well as on monitor sc 4. Online calculation of heart rate. 5. Should be able to deliver ECT from voltage 50-400 6. Should have protection against paddle –to- paddles circuit or pen circuit conditions. 7. Should have stimulus current 500-800 MA Frequer 20-120 Hz, Pulse 8. Width 0.3-1.5 m.sec stimulation duration of 0.1-5.9 9. Minimum Power – 0.6 Joules for 220-ohm Patient Impedance. 10. Maximum Power 205.8 Joules for 220-ohm Patient Impedance. 11. Charge : 5.0 – 1152 mili cimlumba in both manual a timer mode. 12. Should be provided with optical motion sensor for	**M/s Hospimedica Suggested Specification** **TECHNICAL SPECIFICATION OF ULTRA BRIEF ECT MACHINE** Should deliver current of bi-directional square wave ultra-brief pulse of 0.3ms. Should have facility of Right Unilateral (0.3ms) ultra-brief stimulation. Should have 4 channels EEG, 1 channel ECG and optical motion sensor to monitor the movement during seizure for providing assessing seizure efficacy. Should have four different stimulus parameter knobs to vary pulse width, frequency, duration & current. Should have facility to monitor real	**TECHNICAL SPECIFICATION OF ULTRA BRIEF ECT MACHINE** Should deliver current of bi-directional square wave ultra-brief pulse of 0.3ms. Should have facility of Right Unilateral (0.3ms) ultra-brief stimulation. Should have 4 channels EEG, 1 channel ECG and optical motion sensor to monitor the movement during seizure for providing assessing seizure efficacy. Should have four different stimulus parameter knobs to vary pulse width, frequency, duration & current.

monitoring motor movement during seizure. 13. Should have provision of monitoring EEG, EMG, EC Stimulus and Movement with optical sensor. Motion sensor f providing assessing seizures efficacy. 14. Should be provided with monitoring software to vi physiological monitoring of upto 4 traces. The should be available in real time throughout the treatment. 15. Should have facility for the data to be stored with a treatment parameter on the PC Hard disc or can be transfer to CD. 16. Should having a comprehensive database to store t complete patient information and can be configure according to user needs. 17. Output should displays in joules as well as in mill coulombs. 18. ECT module can be used in stand – alone mode also 19. System should have facility to record EEG/ECT dat CD and play back without Addictions Software. 20. System should have facility to use EEG and ECT, Independently or simultaneously Upgradable to D EEG 24-32channel System. 21. System should be ISO/CE certified.. 22. Should have Electrical safety standard certificate IEC60101 23. **System should have following accessories:-** Spri loaded ECT Headband,	time dynamic impedance during procedure & also static impedance. Should have LCD with Touch screen display with impedance display. Should have protection against paddle to paddle short circuit or open circuit conditions. The Stimulus Control push button to be hinged for prevention of accidental delivery of stimulus and should have visual indication of the status of Stimulus enable, Delivery or fault Should have stimulus current from 500-900mA, Frequency 20-120Hz, Pulse width – 0.3-1msec, Stimulus duration of 0.5-8sec. Minimum Power: 0.3 Joules for 220 ohm patient impedance Maximum Power: 202.8 Joules for 220 ohm patient impedance. Charge: 4.0 – 1152m Coulombs. Should have 2 channel thermal chart recorder with gain knobs for higher resolution printing. Should have facility to connect system to any External PC and will be provided with monitoring software to view physiological monitoring. The	Should have facility to monitor real time dynamic impedance during procedure & also static impedance. Should have LCD with Touch screen display with impedance display. Should have protection against paddle to paddle short circuit or open circuit conditions. The Stimulus Control push button to be hinged for prevention of accidental delivery of stimulus and should have visual indication of the status of Stimulus enable, Delivery or fault Should have stimulus current from 500-900mA, Frequency 20-120Hz, Pulse width – 0.3-1.5 msec preferred, Stimulus duration of 0.5-8sec. Minimum Power: 0.3 Joules for 220 ohm patient impedance Maximum Power: 202.8

24. Instruction Manual, EEG, EMG & E CG Electrodes, sensor, Bite Block, Earth Conductive Jelly, Rubber Str Electrodes, EEG Gold Plated Electrodes. **25. System should have following COMPUTER configuration:-** 26. CPU Core i3, 2 GB RAM, 500 GB HDD, DVD R/w, Keyboard, Mouse, Mouse Pad. Monitor 18" TFT, Printer Laser B/ Operating System Window 7. Warranty: 5 Years.	traces should be available in real time throughout the treatment. The data can be stored with all the treatment parameters on the PC or can be converted in to text format. Software should have features: View up to six traces of real-time monitoring on a PC monitor: 4 EEG, 1 ECG, 1 Optical Motion Sensor Equipment should be US – FDA approved**.**	Joules for 220 ohm patient impedance. Charge: 4.0 – 1152m Coulombs. Should have 2 channel thermal chart recorder with gain knobs for higher resolution printing. Should have facility to connect system to any External PC and will be provided with monitoring software to view physiological monitoring. The traces should be available in real time throughout the treatment. The data can be stored with all the treatment parameters on the PC or can be converted in to text format. Software should have features: View up to six traces of real-time monitoring on a PC monitor: 4 EEG, 1 ECG, 1 Optical Motion Sensor

		Equipment should be US – FDA approved. Should have stand alone mode facility in the Machine. Latest branded Core i7 processor with 8 GB RAM or better, 4 TB SATA HDD, DVD Writer, Optical mouse, 19" flat panel TFT, Laser Printer, UPS, optical mouse, key board with windows 10 OS. Good Quality Metallic Trolley with Caster