Dated 04.10.2019

AMENDMENT – I

Subject: Amendment to the tender Enquiry Document.

Ref: Tender Enquiry No.: HSCC/PUR/Mauritius/Cancer Hospital Equipment/2019

The pre-bid meeting for the referred tender enquiry was held on 26.09.2019. The following amendments are being incorporated in the referred tender enquiry document

Schedule No.	Item name	Specification in the Floated Tender	Bidders' Queries	Amended as
1	ICU VENTILATOR	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.	The new generation ventilators comes with inbuilt TURBINE with hepa filters for medical air. No need for compressed air. There is a lifetime warranty on the turbine, which is expected to be around 8 years. Recommend for supplying ICU Ventilators with inbuilt comperssor/turbine	No Change
1	ICU VENTILATOR	1. ETCO2 cable with accessories 2. Nebulaizer (<3 micron particle)	Should we provide a separate quotation for these items.	Prices should be quoted in Price Section XI -Price Schedule for Optional items /Spare P arts/ Consumables
1	ICU VENTILATOR	3. Air compressor from the same manufacturer with change over facility and it should be European CE / US FDA certified	The new generation ventilators comes with inbuilt TURBINE with hepa filters for medical air. No need for compressed air. There is a lifetime warranty on the turbine, which is expected to be around 8 years.	No Change
1	ICU VENTILATOR	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.	Our ventilators works on an internal turbine for compressed air.	No Change

1	ICU VENTILATOR	3. Air compressor from the same manufacturer with change over facility and it should be European CE / US FDA certified	Our ventilators works on an internal turbine for compressed air.	No Change
1	ICU VENTILATOR	Pressure Bar Graph –	Allow Numerical Values and Waveforms	Acceptable
1	ICU VENTILATOR	Inspiratory Peak Flow - 0 to 200 LPM (Compensated)	Allow up to 180 LPM	Acceptable
1	ICU VENTILATOR	Low Inflation flow (LIP) and upper inflection point (UIP)	Please delete	No Change
1	ICU VENTILATOR	RS - 232 Outputs and Remote Communication	remote communication through Ethernet Port	No Change
1	ICU VENTILATOR	Air compressor from the same manufacturer with change over facility and it should be European CE / US FDA certified	Allow this from other manufacturers	No Change
2	NON INVASIVE VENTILATOR	Non Invasive Ventilator	We believe having a non invasive ventilator alone is a waste of resources. Recommend for Invasive Ventilators with Non Invasive mode be accepted	No Change
3	Multipara Monitor (24 Nos.) with Central Nursing Station (2 Nos.) Transport Monitor (1 No.)		2. intensive Care Unit Sr. No.3 Multipara Monitor (24 Nos.) with Central Nursing Station 2 Nos Transport Monitor (I No) Item line 3.16 reads as follows: "Trend of at least 72 hours for 19"& 21 Monitors, 24 hours trending for IS"monitor." Please confirm size of monitors for Central Station and size of multiparameter and transport monitor	Item Line 3.16 Trend of at least 72 hours for 19”& 21 Monitors. (Central Station Minimum 21' & Monitor 19")
3	Multipara Monitor (24 Nos.) with Central Nursing Station (2 Nos.) Transport Monitor (1	Request you to add following;		
		- PVI (Pleth Variability Index)	PVI I & HB are very important tool and not a specific to any monitoring company rather a third party provided facility to all manufacturer	No Change
		- Non Invasive HB Monitoring		No Change

	No.)			
3	MULTIPARA MONITOR (24 Nos.) WITH CENTRAL NURSING STATION 2 Nos TRANSPORT MONITOR (1 No)	Central station - should be valid USFDA approved with certification.	CE or FDA	No Change
3	MULTIPARA MONITOR (24 Nos.) WITH CENTRAL NURSING STATION 2 NosTRANSP ORT MONITOR (1 No)	ICU should comprise of modular monitors at the bedside and with central station. –	Allow for Semi Modular Also	No Change
3	MULTIPARA MONITOR (24 Nos.) WITH CENTRAL NURSING STATION 2 Nos TRANSPORT MONITOR (1 No)	HL& Compatible-	Please delete	No Change
3	MULTIPARA MONITOR (24 Nos.) WITH CENTRAL NURSING STATION 2 Nos TRANSPORT MONITOR (1 No)	Web browsing facility to review each network monitors data through hospital LAN via office PC in Hospital LAN Network and / or through dial up facility from remote location.-	Delete Web Browsing	No Change

3	MULTIPARA MONITOR (24 Nos.) WITH CENTRAL NURSING STATION 2 Nos TRANSPORT MONITOR (1 No)	EEG, BIS, NMT,3 additional IBP's- modules to be offered as per the nos. specified which help clinicians in guiding fluid management.-	Please remove EEG	BIS, NMT,3 additional IBP's- modules to be offered as per the nos. specified which help clinicians in guiding fluid management.-
3	MULTIPARA MONITOR (24 Nos.) WITH CENTRAL NURSING STATION 2 NosTRANSPORT MONITOR (1 No)	The monitors should have monitor-to monitor overview facility-	Delete	No Change
3	MULTIPARA MONITOR (24 Nos.) WITH CENTRAL NURSING STATION 2 Nos TRANSPORT MONITOR (1 No)	System including Modules should be valid USFDA approved with certification-	CE or FDA	No Change
3	TRANSPORT MONITOR	Capability to integrate with the HIS and transfer the data through LAN / Wireless LAN to any other monitoring room / doctors desk. Should be HL-7 compatible for transmitting and receiving data to/fro LAN/HIS(OPTIONAL) –	Delete	No Change

3	TRANSPORT MONITOR	Remote access of patient data - should have facility of accessing patient data including waveforms and numeric remotely in Hospital or at Consultants residence through hardwired LAN connection or through modem-	Delete	No Change
3	TRANSPORT MONITOR	Should be able to review DICOM images from PACS. On the bedside or the central station.-	delete	No Change
3	TRANSPORT MONITOR	Web browsing facility to review each networked monitors data through hospital LAN via office PC in Hospital LAN network and/or through dial up facility from remote location. –	Delete	No Change
3	TRANSPORT MONITOR	To provide HL 7 compatible server for sending information from the monitoring network to Hospital Information System, Laboratory information etc for integration of various information-	Delete	No Change
5	SYRINGE INFUSION PUMP	5) Bolus rate should be programmable to 40 to 1000 ml/hr or more with infused volume	Change Bolus rate – 10ml – 1000ml	Bolus rate should be programmable to 10 to 1000 ml/hr or more with infused volume
	SYRINGE INFUSION PUMP	US-FDA / European CE with 4 digit notified body number certificate or BIS Approved Product	Recommend for CE only certified Syringe Infusion Pumps to be accepted same as for the ENT tender	No Change
7	CARDIAC DEFIBRILLATOR	Defibrillator should have facility to upgrade for external pacing Spo2 & Etco2 monitoring parameters.-	Please delete ETCO2	No Change
7	CARDIAC DEFIBRILLATOR	Should be US FDA approved product approved for use in US-	CE or FDA	No Change

8	STRESS TEST SYSTEM	Should be US FDA approved.	Recommend for CE certified Stress Test Systems to be considered. We have installed Stress Test Systems which are CE certified only and which are still working fine after 5 years + in operation	No Change
9	ANESTHESIA WORKSTATION	Multi-color TFT display of at least 12" size, with virtual flow meters for O2, N2O or Air -	Scree size should be 8 and above	No Change
9	ANESTHESIA WORKSTATION	Tidal volume: 5ml-1400ml – Minimum Available Tidal Volume 20ml Should include inbuilt Anesthesia record keeping software facility in all OT monitor to document anesthesia event using standardized menu based entries.-	Delete	No Change
9	ANESTHESIA WORKSTATION	Neuromuscular Transmission Monitoring with all accessories. One set with each monitor-	Delete	No Change
9	ANESTHESIA WORKSTATION	Monitor should be USFDA approved –	CE or FDA	No Change
9	ANESTHESIA WORKSTATION	Web Browsing feature for browsing near real time waveforms and graphical & numerical trend upto 24hrs remotely through telephone dial in facility. Compatible with HIS system of the Hospital.-	Delete	No Change
9	ANESTHESIA WORKSTATION	Automatic Recording System-	Delete	No Change
10	OPERATION TABLE	The quoted equipment should be having US-FDA/ European CE Certification	There are good European brand which do not sell on the American market and thus have only CE certificate. Recommend for CE certified Operation Tables to be considered.	No Change

10	Operation Table	(1) It should be a mobile universal electric /electro-hydraulic operating table with 5 section table top. Having specialized accessories for General Surgeries. The table should be hundred percent oil free		No Change
10	Operation Table	(1) It should be a mobile universal electric /electro-hydraulic operating table with 5 section table top. Having specialized accessories for General Surgeries. The table should be hundred percent oil free	**It may be amended as: It should be a mobile universal electric /electro-hydraulic operating table with 5 section table top. Having specialized accessories for General Surgeries.** Note: Oil Free is an out-dated technology, only one imported brand Merivaara has oil free. Eschmann had Oil Free Table but is discontinued . So, please delete the line **The table should be hundred percent oil free**	No Change
		(8) All table positions height, lateral tilt, back, trendelnburg, reverse Trendelenburg and zero leveling, longitudinal sliding, table base locking and unlocking should be electro-hydraulically operated using a touch switches on hand held controller. It should also indicate the patient orientation as reverse / normal.	**It may be amended as:** All table positions height, lateral tilt, back, Trendelnburg, reverse Trendelenburg and zero leveling, longitudinal sliding, table base locking and unlocking should be electro-hydraulically operated using a touch switches on hand held controller/**Foot Padel** . It should also indicate the patient orientation as reverse / normal.	No Change

		(11) Table top reconfiguration should be quick and uncomplicated. Should have head rest with gas spring, double articulation type up/down -45 / +45 degree and pair of Split LEG with Abduction facility and leg section up/down* -90/ + 90 deg.	**It may be amended as: Table top reconfiguration should be quick and uncomplicated. Should have head rest with gas spring, double articulation type up/down -45 / +25 degree and pair of Split LEG with Abduction facility and leg section up/down* -90/ + 70 deg.**	No Change
10	OT Table	It should be a mobile universal electric /electro-hydraulic operating table with 5 section table top. Having specialized accessories for General Surgeries. The table should be hundred percent oil free	It should be a mobile universal electro-hydraulic operating table with 5 section table top. Having specialized accessories for General Surgeries. **Justification:** Electrohydraulic table will have Oil .	No Change
		Should have st. steel column with integrated table top, all powered motorized movements including Trendelenburg / Anti-Trendelenburg / Lateral Tilt / Back Section / Back Lift for sitting position must happen with electric / electro-hydraulic drives.	Should have st. steel column with integrated table top, all powered motorized movements including Trendelenburg / Anti-Trendelenburg / Lateral Tilt / Back Section / Back Lift for sitting position must happen with electro-hydraulic drives. **Justification:** As we recommed Electro Hydraulic Specificatioons , electric word shoud be removed	No Change
		The system should have electrical and functional impact prevention safety with microprocessor and linear and angular position sensors avoid collisions between the motorized sections and the table or the floor	**should be omitted. Justification:** Normally Table top is designed in such a way that it will never collide with motorised sections. Since table is being operated from a distance of less than 4 feet its visibally seen if table will colllide with the floor.	No Change

		Table should be equipped with a motorized table top slide of approx. 300-400mm or more	Table should be equipped with a motorized table top slide of approx. 270-300mm or more	No Change
		The table should be equipped with both electronic override control panel embedded in the centre column body offering all the controls as in the hand held controller. Should also have manual back- up from foot operated system	Electro mechanical table can not have a foot operated foot system , hence its recommended to have ElectroHydrualic table .	No Change
		Table top reconfiguration should be quick and uncomplicated. Should have head rest with gas spring, double articulation type up/down -45 / +45 degree and pair of Split LEGwith Abduction facility and leg section up/down* -90/ + 90 deg.	Table top reconfiguration should be quick and uncomplicated. Should have head rest with gas spring, double articulation type up/down -45 / +45 degree and pair of Split LEG with Abduction facility and leg section up/down* **-90/ + 30 deg. Justification:** Leg section should have up/down -90 / +30 deg	No Change
		Should have moulded, antistatic with no seams, Polyurethane foam Mattress with easy to fix Velcro system to stop slippage. Mattress must be Latex free.	Should have moulded, antistatic with no seams, Polyurethane foam Mattress with easy to fix Velcro system to stop slippage. Mattress must be Latex free. **Recommendation to include Viscoelastic foam of 80 mm for better prsssure management for prolonged sugeries**	No Change
		Back (seat) section adjustment: -40 degree to + 80 degree	Back (seat) section adjustment: -40/-45 degree to + 70/+80 degree **Please give range**	No Change
		Flex / reflex: 220 degree /120 degree	Flex / reflex: 210 degree /120 degree **Please give range**	No Change

11	Video Fiber optoc endoscope Adult & paediatric	Adult scope- 3- Distal end diameter should be 5.2 mm or less	We would like to know if 5.5 mm would be acceptable	No Change
14	PORTABLE VENTILATOR	Should be microprocessor based Portable Ventilator for use in Emergency Transport/ Intra Hospital Transport purpose. It can be used from infant to adult patients.	From our terminology, portable ventilaor Should be Ambulance, Helicopter and Aircraft compatible. Please clarify.	No Change
14	Portable Ventilator	Tidal volume 20 to 2000 mL-	Min Tidal Volume available should be 50ml	No Change
14	Portable Ventilator	Up to 230 1/ min in spontaneous mode-	Delete	No Change
14	Portable Ventilator	It should have built in battery backup at least for 4 hours or more.- 3 Hrs Battery back up available	battery back up should be 3 Hours	No Change
14	Portable Ventilator	It should be European CE and US FDA.-	CE or FDA	No Change
14	Portable Ventilator	EUROPEAN CE and USFDA is to be Read as : EUROPEAN CE /USFDA/ BIS/ISO Certification/Make in India.		No Change
14	PORTABLE VENTILATOR	Should be microprocessor based Portable Ventilator for use in Emergency Transport/ Intra Hospital Transport purpose. It can be used from infant to adult patients.	We believe the equipment should be compatible for use in Helicopters and Aircrafts for the transfer of serious/emergency patients from and to Mauritius.	No Change
15	CT 256 Slice	10.4. RFA accessories- Intelliflow pump, RFA probes, multiprong electrodes and coaxial biopsy gun of 9cm and 15cm with 20cm throw.	The term 'intelliflow pump' is a proprietary term of the equipment manufacturer Angiodynamics. We would like to know if other tumour ablation systems will be accepted in the bid.	No change
15	CT 256 Slice		For Section 1. Gantry and 3. Detectors	No change
15	CT 256 Slice		System should have no less than 64 physical detector rows	No change

15	CT 256 Slice		System should offer no less than 128 acquired slices.	No change
15	CT 256 Slice		System should offer no less than 256 reconstructed slices	No change
15	CT 256 Slice		System should offer an acquisition speed of no less than 20 cm per second.	No change
15	CT 256 Slice		**For Section 10. Accessories** Will an equivalent to intelli flow pump be accepted in RFA accessories be accepted	No change
15	CT 256 Slice	The system to be of 128 or more physical rows of detectors with **dual energy application**	The system to be of 128 or more physical rows of detectors with **both non contrast and contrast enhanced dual energy application.**	No change
15	CT 256 Slice	The vertical range should be at least **55 cms** (max height — min height)	The vertical range should be at least **43 cms** (max height — min height)"	No change
15	CT 256 Slice	**provide Bone / Osteo /** Dental CT software	Provide Dental CT software	No change
15	CT 256 Slice	i. DUAL ENERGY APPLICATIONS to be provided as standard: Renal Calculi Characterization & Gout.	**All dual energy applications like Renal Calculi Characterization, Gout, Cardiac including myocardial perfusion, Lung perfusion & pulmonary emboli detection, plaque characterisation, Virtual NCCT, Direct Neuro CTA, Contrast vs blood differentiation, Monoenergetic imaging to be provided as standard**	No change
15	CT 256 Slice	ii. All other Dual Energy applications available with vendor should be listed as optional with price of each quoted separately.		No change
15	CT 256 Slice			No change
15	CT 256 Slice			No change

15	CT 256 Slice	**Commercial Clarifications**		No change
15	CT 256 Slice	The tenderer supplying indigenous goods or already imported goods shall quote only in **MUR.**	The tenderer supplying indigenous goods or already imported goods shall quote only in MUR/USD/INR.	No change
15	CT 256 Slice	**Within fifteen (15) days** from date of the issue of notification of award by the Purchaser/Consignee, the supplier, shall furnish performance security to the Purchaser/Consignee for an amount equal to ten percent (10%) of the total value of the contract, valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations of 1 year, from the date of Notification of Award.	Within **Thirty (30) days** from date of the issue of notification of award by the Purchaser/Consignee, the supplier, shall furnish performance security to the Purchaser/Consignee for an amount equal to ten percent (10%) of the total value of the contract, valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations of 1 year, from the date of Notification of Award.	No change
15	CT 256 Slice	in case of supply of the imported goods on CIP Named port of Destination Basis, the additional extended Insurance (local transportation and storage) would be borne by the Supplier from the port of entry to the consignee site for a period including 3 months beyond date of delivery for an amount equal to 110% of the overall expenditure to be incurred by the purchaser from ware house to ware house (consignee site) on all risk basis.	in case of supply of the imported goods on CIP Named port of Destination Basis, the additional extended Insurance (local transportation and storage) would be borne by the Indian Subsidiary/local company/agency from the port of entry to the consignee site for a period including 3 months beyond beyond date of delivery for an amount equal to 110% of the overall expenditure to be incurred by the purchaser from ware house to ware house (consignee site) on all risk basis.	No change
15	CT 256 Slice		Also same should be amended in the Special conditions of contract Part –VI, point no-b	No change
15	CT 256 Slice			No change

15	CT 256 Slice	Immediately following such discontinuation, providing the Purchaser / Consignee free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser /Consignee	We request to replace this clause with requirement for the supplier to provide an undertaking to provide spare parts for specific period of time (e.g. 10 years)	No change
15	CT 256 Slice	The Supplier along with its Indian Agent and the CMC Provider shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers of its equipments/machines/goods etc. and shall always give the most competitive price for its machines/equipments supplied to the Purchaser/Consignee	The Supplier along with its Indian Agent and the CMC Provider shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers in India of its equipments/ machines/ goods etc. and shall always give the most competitive price for its machines/ equipments of identical description (i.e. same nature, class, specifications prevailing exchange rate, warranty, quantity and other commercial terms & conditions) supplied to the Purchaser/Consignee. This undertaking shall be valid until installation of the equipment or 12 months from delivery of the equipment, whichever is earlier.	No change
15	CT 256 Slice	Payment shall be made in Mauritian Rupees as specified in the contract in the following manner:	Payment shall be made in Contract currency as specified in the contract in the following manner:	No change
15	CT 256 Slice	a) On delivery:	a) On dispatch:	No change
15	CT 256 Slice	80% payment of the contract price shall be paid on receipt of goods in good condition and upon the submission of the following documents:	100% payment of the contract price shall be paid through irrevocable letter of credit on dispacth of goods and upon the submission of the following documents	No change
15	CT 256 Slice	· Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;		No change

15	CT 256 Slice	· Consignee Receipt Certificate as per Section XVI in original issued by the authorized representative of the consignee;	· Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;	No change
15	CT 256 Slice	· Two copies of packing list identifying contents of each package;	· Copy of the lorry receipt/Airway bill/Bill of lading	No change
15	CT 256 Slice	· Inspection certificate issued by the nominated Inspection agency, if any.	· Two copies of packing list identifying contents of each package;	No change
15	CT 256 Slice	· Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours;	· Inspection certificate issued by the nominated Inspection agency, if any.	No change
15	CT 256 Slice	· Certificate of origin.	·Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours;	No change
15	CT 256 Slice	· Dispatch Clearance Certificate issued by HSCC	· Certificate of origin.	No change
15	CT 256 Slice	.	· Dispatch Clearance Certificate issued by HSCC	No change
15	CT 256 Slice	b) On Acceptance:		No change
15	CT 256 Slice	Balance 20% payment would be made against 'Final Acceptance Certificate' as per Section XVIII of goods to be issued by the consignees subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise. Final acceptance certificate will be released by the consignee		No change

15	CT 256 Slice	on completion of installation, commissioning, training, successful running of equipment (at least 2-3 weeks) and handing over the equipment to the consignee.		No change
15	CT 256 Slice	**Payment for Imported Goods:**	Payment for Imported Goods:	No change
15	CT 256 Slice			No change
15	CT 256 Slice	Payment for foreign currency portion shall be made in the currency as specified in the	Payment for foreign currency portion shall be made in the currency as specified in the contract in the following manner:	No change
15	CT 256 Slice	contract in the following manner:		No change
15	CT 256 Slice		a) On Shipment:	No change
15	CT 256 Slice	a) On Shipment:	100% of the net CIP price (CIP price less Indian Agency commission) of the goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country and upon submission of documents specified.	No change
15	CT 256 Slice	80% of the net CIP price (CIP price less Indian Agency commission) of the goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country and upon submission of documents specified.		No change
15	CT 256 Slice	Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours	Insurance Certificate as per GCC Clause 11.	No change

15	CT 256 Slice	Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment of LC confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours	Insurance Certificate as per GCC Clause 11.	No change
15	CT 256 Slice	60 days from date of Notification of Award except, for MRI, CT Scan, DR System, DRF System,	The indigenous goods shall be delivered on or before imported equipment reaches at site. The date of delivery will be the date of delivery at consignee site (Tenderers may quote earliest delivery period)	No change
15	CT 256 Slice	DSA, Gamma Knife, Gamma Camera, PET CT, Cath Lab. for which the delivery period will be 90 days from date of Notification of Award. The date of delivery will be the date of delivery at consignee site (Tenderers may quote earliest delivery period).		No change
15	CT 256 Slice	60 days from date of opening of L/C except, for MRI, CT Scan, DR System, DRF System, DSA, Gamma Knife, Gamma Camera, PET CT, Cath Lab. for which the delivery period will be 90 days from date of opening of L/C. The date of delivery will be the date of Bill of Lading/Airway Bill.(Tenderers may quote earliest delivery period).	90 days from date of opening of L/C except, for MRI, CT Scan, DR System, DRF System, DSA, Gamma Knife, Gamma Camera, PET CT, Cath Lab. for which the delivery period will be 120 days from date of opening of L/C **or site handing over with availability of permanent power**, whichever is later. The date of delivery will be the date of Bill of Lading/Airway Bill. (Tenderers may quote earliest delivery period).	No change

15	CT 256 Slice	Installation & commissioning within 15 days of receipt of goods at site except for MRI, CT Scan, DR System, DRF System, DSA, Gamma Knife, Gamma Camera, PET CT, Cath Lab. for which **installation & commissioning to be done within 60 days** of receipt of goods at site.	Installation commissioning within 45 days of receipt of goods at site except for MRI, CT Scan, DR System, DRF System, DSA, Gamma Knife, Gamma Camera, PET CT, Cath Lab. for which installation & commissioning to be done within **90 days of receipt of goods at site or site handing over with availability of permanent power, whichever is later.**	No change
15	CT 256 Slice	The Tenderer shall examine the existing site where the equipment is to be installed to assess the site condition for Equipment placement and installation. Whether the scope of Turnkey Works is mentioned	To be deleted	No change
15	CT 256 Slice	in the Technical Specifications or not, the bidder's offer should be on a "Turn Key" basis including all costs associated with the supply, installation and commissioning of the equipment.		No change
15	CT 256 Slice	98% uptime during warranty and CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend warranty/CMC period by double the downtime period.	90% uptime during warranty and CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend warranty/CMC period by double the downtime period.	No change
15	CT 256 Slice	Vendors shall be responsible for getting **AERB/equivalent Govt**. of Mauritius Guidelines Site Plan approval prior to installation.	Purchaser shall be responsible for getting AERB/equivalent Govt. of Mauritius Guidelines Site Plan approval prior to installation of equipment.	No change
15	CT 256 Slice	A free comprehensive software **upgrade** guarantee for entire life of scanner must be provided.	A free comprehensive software **update** guarantee for entire life of scanner must be provided.	No change

16	Digital Flat Panel Radiography System	In the system 2 out of 3 major Most of the X-Ray equipment companies do not components (Tube, detector, and manufacture X-Raytubes & Detectors. generator) should be manufactured by the quoting vendor themselves.	Most of the X ray equipment companies do not manufacturer X - ray tubes & Detector. The most important factor is compatibility of X-Ray tube & Detector with the X-Raygenerator and carefully managed exposure interlocks to avoid any type of damage to the tube in case of overload temperature and exposure factors. Therefore point should be amended to All the major components should be of reputed make	No change
		Vendor should have experience of supplying and maintaining similar DR equipment in the last 5 years in major government hospitals. (Certificates of supply and satisfactory performance to be enclosed Other certificates are not acceptable).	Kindly generalise as user list & satisfactory performance certificate from Govt Hospital / Institute should be enclosed	No change
		Point A) The quoted model should be RPA type approvaed CE & US FDA certified. (as detailed in A of the Technical Specification) Vendor must give undertaking for obtaining RPA type approval certificates with tender quotation. L) Accreditation and Quality Certification 75. The quoted model should be RPA type approved and CE & US FDA certified. (as detailed in A of the Technical specification)	Kindly generalisze as European CE certified from Notified Body & FDA approved	No change

		D) X-Ray Table Specification :26. Four way motor driven floating horizontal table top of carbon fibre or its equivalent,compact bucky table with digital flat panel detector should be provided	Kindly amend as four way floating table top with motorized height adjustment facility should be provided	No change
		E) Vertical Stand 33. Vertical movement: Motorized with foot switch facility.	Kindly delet foot switch as same is not applicable with verticle bucky stand	No change
		35. Provide two removable grids with Grid Ratio of 12:1 or more.	Kindly amend as one removable grid as one grid has been already asked with Table	No change
		37. Maximum height from the floor to the centre of detector should be more than 175 cm.	Kindly generalize as 165 cm or more as it is sufficient height for taking chest stand	No change
		Point J) Advanced Clinical Application Facility : 47. Auto Image stitching / image pasting soft ware and necessary hardware on vertical and horizontal bucky, for complete spinal column, extra long leg image & other long body parts, should be a standard feature in the machine.	Kindly amend as Auto Image stitching / image pasting software and necessary hardware on vertical and manual stitching wth horizontal bucky table.	No change
		Under Specification : "Whole complex" word used in civil & allied works	You are requested to amend the 'Whole Complex" word into 'whole room / DR Complex where the equipment to be installed	No change
16	DIGITAL FLAT PANEL RADIOGRAPHY SYSTEM	The quoted model (and not the individual components) should be US FDA and CE approved	Request for CE certified DR system from European Manufacturers be accepted	No change
17	Portable X Ray Machine	The equipment should be light weight, not more than 160 kg.	The equipment should be light weight, not more than 210 kg.	No change No change No change
		System shall have valid RPA certificate.	System shall have valid RPA/ AERB certificate.	No change

17	Portable X Ray Machine	Point 9. Certification : System shall have valid RPA certificate and CE (Europe) of the Quoted model.	Kindly generalize as European CE certified from notified body & BIS Approved	No change
18	Mid End Color Doppler	23. The System should have Panoramic imaging / Sie-scape and extended field of viewimaging.	For Section 13. Training	No change
18	Mid End Color Doppler	24. The System should be quoted along with strain based Elastography Imaging as standard.	Should application be given for three months consecutively or in different sessions over	No change
18	Mid End Color Doppler	5. 2-6 MHz or better Broadband Volume Transducer.	a period of three months.	No change
18	Mid End Color Doppler	- System should have 500,000 digital processing channels or more.	Point No. 3: System should have 60,000 digital processing channels or more This being a high end machine so minimum 5 lac should be asked as all vendor has it. In our machine we have more than 45 lac	No change
		- System should be offered with a 2D frame rate of at least 1200 or more frames/second	Point No. 5: System should be offered with a 2D frame rate of at least 630 or more frames/second This being a high end machine so minimum 1200 fps should be asked as all vendor has it. In our machine we have more than 1900 fps.	No change
		- Cine loop as well as cine scroll facility in B mode with **storage** of 2000 or more images should be available.	Cine loop as well as cine scroll facility in B mode with storage of 10,000 or more images should be available. 10000 image are specific to only one company.	No change
19	FULLY AUTOMATIC CRYOSTAT	19. Equipment should be European CE and USFDA.	CE or FDA	No change
19	CRYOSTAT	Shall be supplied with Split AC of 1.5 Tonnee	In Mauritius, we use BTU to denote cooling capacity of ACs.	Equivalent BTU to be supplied

20	TISSUE EMBEDDING STATION	Should have minimum 10 installation in government institution	It is very difficult for local bidders to have minimum 10 installation in government institution since Mauritius has only 1 government lab for cytology and IHC	Stands Delete
		Should have factory trained engineer support for service. With past record of more than 95% on time service support	Due to limited number of installation in Mauritius, it is very difficult to have factory trained engineer support.	Accepted
20	TISSUE EMBEDDING STATION	CE and FDA	CE or FDA	No Change
20	TISSUE EMBEDDING STATION	Should have minimum 10 installation in government institution	not possible to have 10 installation since Mauritius has only 1 government lab for cytology and IHC	Stands Delete
		Should have factory trained engineer support for service. With past record of more than 95% on time service support	Due to limited number of installation in Mauritius, it is very difficult to have factory trained engineer support.	Accepted
21	AUTOMATED MICROWAVE TISSUE PROCESSOR	CE and FDA	CE or FDA	No Change
22	FULLY AUTOMATIC COVERSLIPPING STATION	Instrument should have an operating voltage suitable for Indian plugs	In Mauritius, we use UK Style 3 Pin Plugs	Accepted
23	FULLY AUTOMATIC IHC STAINER		Please specify if the Fully Automatic IHC Stainer should have simultaneous dewaxing and epitope recovery feature	No change
23	FULLY AUTOMATIC IHC STAINER		Should the Fully Automatic IHC Stainer have simultaneous dewaxing and epitope recovery feature?	No change

24	FULLY AUTOMATED HIGH THROUGHPUT MULTI STAINER	System shall be supplied with UPS of 2 hours battery backup & AC of 2 Ton split with stabiliser.	It is normally recommended for a UPS system to give a maximum of 10-15 minutes battery back-up in order to allow for users to safely shut down the instrument. 2 hours battery back-up is excessive since the cost of the UPS will be too high. The requested stabiliser should be supplied for the Fully Automatic IHC Stainer or for the AC? In Mauritius, we use BTU to denote the cooling capacity of ACs.	No Change
24	FULLY AUTOMATED HIGH THROUGHPUT MULTI STAINER	System shall be supplied with UPS of 2 hours battery backup & AC of 2 Ton split with stabiliser.	UPS with 2 hours battery backup is not recommended. Battery back up should be a maximum of 15 mins to ensure safe shutdown.	No Change
24	FULLY AUTOMATED HIGH THROUGHPUT MULTI STRAINER	12. The equipment should be European CE and USA-FDA	Not to be limited to US FDA -Limits to 1 or 2 brands. CE to be permited and to be open system	No Change
25	AUTOMATIC TISSUE PROCESSOR	The equipment should be USA-FDA /European-CE/ BIS Approved	Not to be limited to US FDA -Limits to 1 or 2 brands. CE to be permited and to be open system	No Change
28	TRINOCULAR MICROSCOPE WITH CAMERA WITH COMBINED VIDEO DISPLAY AND IMAGE ANALYZER	Demo is a must for system	Organising a demo will be difficult for this system in India	Deleted
		BHU User Customer List	Kindly clarify the meaning of BHU.	Deleted
		Customer working & Service Certificate from atleast 3 places manufactured license from company		Deleted

28	TRINOCULAR MICROSCOPE WITH CAMERA WITH COMBINED VIDEO DISPLAY AND IMAGE ANALYZER	Demo is a must for system	Doing a demo will be difficult	Deleted
29	FLUORESCENCE MICROSCOPE WITH DOUBLE HEAD	1KVA onine UPS should be provided	1KVA UPS will not be sufficient to provide 1 hour of power backup for both Microscope and Computer. Also it is advisable to have atleast a 3KVA online UPS with the system in order to supply 10-15 minutes of battery backup for ensuring safe shutdown of the system. it is not recommended to run any scientific instrument on UPS power	
		UPS - At least 01-Hour power backup for both Microscope and Computer		3 KVA online UPS should be provided
29	FLUORESCENCE MICROSCOPE WITH DOUBLE HEAD	1KVA onine UPS should be provided	1KVA UPS will not be sufficient to provide 1 hour of power backup for both Microscope and Computer. Also it is advisable to have atleast a 3KVA online UPS with the system in order to supply 10-15 minutes of battery backup for ensuring safe shutdown of the system. it is not recommended to run any scientific instrument on UPS power	
		UPS - At least 01-Hour power backup for both Microscope and Computer		
	EMBEDDING STATION WITH HOT & COLD TABLE & PARAFFIN DISPENSER	Suppliers should have a good number of installatiton base with efficient after sales support with proven track record	It is very difficult to have a good number of installation base since Mauritius has only 1 government lab and 1-2 private institutions that have IHC and Cytology departments within their laboratory infrastructure	Deleted
		The equipment should be USA-FDA/European-CE Approved model	Kindly advise if the requirement should read USA-FDA or European-CE approved model.	"/" stands for "or"

30	EMBEDDING STATION WITH HOT & COLD TABLE & PARAFFIN DISPENSER	19. The equipment should be USA- FDA/European- CE approved model.	Not to be limited to US FDA -Limits to 1 or 2 brands. CE to be permited and to be open system	"/" stands for "or"
30	EMBEDDING STATION WITH HOT & COLD TABLE & PARAFFIN DISPENSER	Suppliers should have a good number of installatiton base with efficient after sales support with proven track record	It is very difficult to have a good number of installation base since Mauritius has only 1 government lab and 1-2 private institutions that have IHC and Cytology departments within their laboratory infrastructure	Stands Delete Qualification criteria Prevails
		The equipment should be USA-FDA/European-CE Approved model	Kindly advise if the requirement should read USA-FDA or European-CE approved model. Good european brand can meet all specification.	"/" stands for "or"
32	DEEP FREEZER (-80)	400-450 litters capacity. Freezer should have 5 compartments with five inner doors	Please increase the capacity to 550L so that many can participate	Accepted
33	Automatic hematology Cell Counters (5 part)(with retics, IPF & malaria parasites)	For this item, the description mentions to have IPF and malarial parasites	Since this is a cancer hospital, IPF detection, low severely low platelet count will be of great advantage for the doctor to detect thrombopenic samples which cannot be detected in a normal hematology analyer. Its diagnostic validity supports the problem being in the bone marrow or in the peripheral blood.	No Change
		The linearity range mentioned is RBC 0.20-7.50 * 10 /µL	The linearity should be corrected to 0.20-7.50 * 10^6/µL	The linearity should be corrected to 0.20-7.50 * 10^6/µL

		The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%	Since humidity range in Mauritius is quite high, we suggest to increase the range to 25-100, minimum 15% is quite restrictive.	Accepted
		Should be US FDA or European CE from notified body approved product	We suggest to for it to be both FDA and CE, as ony CE marked instruments are not suitable to give precise and accurate results for a hematology 5 part analyser. For a cancer hospital, it will be very crucial.	No Change
33	FULLY AUTOMATIC BLOOD COUNT ANALYZER (5-PART)	23 Should be US FDA or European CE from notified body approved product.	Not to be limited to US FDA -Limits to 1 or 2 brands. CE to be permited and to be open system	No Change
33	Automatic hematology Cell Counters (5 part)(with retics, IPF & malaria parasites)	For this item, the description mentions to have IPF and malarial parasites.	For cancer hospital, IPF detection, low severely low platelet count and WPC parameters will be of great advantage for the doctor to detect samples which cannot be detected in a normal hematology analyer. The WPC determines if the problem comes in the bone marrow or blast, helping in quick result instead of going for smear which is time consiming	No Change
		The linearity range mentioned is RBC 0.20-7.50 * 10 /µL	The linearity should read to 0.20-7.50 * 10^6/µL	The linearity should read to 0.20-7.50 * 10^6/µL
		The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%	Humidity in Mauritius is high and to increase from 40 to 95 %	Accepted
34	PENTA HEAD MICROSCOPE	Product should be USFDA and documents shall be enclosed in the technical bid	A microscope is a laboratory instrument and USFDA is not applicable to such an equipment. European CE is more applicable.	US FDA or European CE

34	PENTA HEAD MICROSCOPE	Product should be USFDA and documents shall be enclosed in the technical bid	USFDA is not applicable since it is a laboratory equipment	
35	FLUORESCENCE MICROSCOPE WITH DOUBLE HEAD	1KVA onine UPS should be provided	1KVA UPS will not be sufficient to provide 1 hour of power backup for both Microscope and Computer. Also it is advisable to have atleast a 3KVA online UPS with the system in order to supply 10-15 minutes of battery backup for ensuring safe shutdown of the system. it is not recommended to run any scientific instrument on UPS power	
		UPS - At least 01-Hour power backup for both Microscope and Computer		3 KVA online UPS should be provided
35	FLUORESCENCE MICROSCOPE WITH DOUBLE HEAD	1KVA onlne UPS should be provided	1 KVA UPS will not be sufficient to provide 1 hour power back up.	
		UPS - At least 01-Hour power backup for both Microscope and Computer		3 KVA online UPS should be provided
		UPS - At least 01-Hour power backup for both Microscope and Computer		
36	Automatic Urine Analyzer	Should be able to test at least 500 samples per hour	500 samples an hour for an equipment is highly oversize, and we would request a decrease in throughput as currently MOH has only 50-90 urine samples per day for analysis	60 -100 samples per day
36	Automatic Urine Analyzer	Should be able to test at least 500 samples per hour	Analyzer is oversized, we would request to decrease the throughput as MOH/CHL runs only 60 to 100 samples per day	
36	AUTOMATIC URINE ANALYZER	Should be able to test at least 500 samples per hour. Should have CE\FDA(US) certification.	480T/Hr - Through put should be considered from 450T/Hr CE or FDA approval	60 -100 samples per day
37	Fully Automated Coagulometer	100 samples on board and more than 20 reagents on board has been requested	To be able to accommodate 100 samples at one go, we would request the throughput of the equipment to be more than 100 test/hr and to increase the capacity to 20-40 on board reagents.	Accepted

37	Fully Automated Coagulometer	100 samples on board and more than 20 reagents on board has been requested	To be able to accommodate 100 samples at one go, we would request the throughput of the equipment to be more than 100 test/hr and to increase the capacity to 20-40 on board reagents.	
38	CYTO CENTRIFUGE	Should run atleast up to 24 samles at a time	Will atleast 12 samples at a time be acceptable in line with specifications for Item 27	Accepted
38	CYTO CENTRIFUGE	Should run atleast up to 24 samles at a time	Can we propose a system capable of running 12 samples at a time similar to Item 27?	Should run atleast up to 12 samples at a time
39	Automated ESR Analyzer	Automated ESR analyzer based on the modified Westergren method	We would like to recommend HSCC to be more open to the specifications, so that we can propose a more labour free, more cost effective method with better time management (ESR results obtained within 20 seconds) for the cancer hospital. The latest technique is using a microagglutination method that assesses the interaction of RBCs with inflammatory plasma proteins and requires only 20 seconds.	Automated ESR analyzer based on the microagglutination method that assesses the interaction of RBCs with inflammatory plasma proteins and requires only 20 seconds.
39	Automated ESR Analyzer	Automated ESR analyzer based on the modified Westergren method	We would like to recommend HSCC to be more open to the specifications, so that we can propose a more labour free, more cost effective method with better time management (ESR results obtained within 20 seconds) for the cancer hospital. The latest technique is using a microagglutination method that assesses the interaction of RBCs with inflammatory plasma proteins and requires only 20 seconds.	

39	Automated ESR Analyzer	Automated ESR analyzer based on the modified Westergren method	We would like to recommend HSCC to be more open to the specifications, so that we can propose a more labour free, more cost effective method with better time management (ESR results obtained within 20 seconds) for the cancer hospital. The latest technique is using a microagglutination method that assesses the interaction of RBCs with inflammatory plasma proteins and requires only 20 seconds.	
41	AUTOMATIC SLIDE STAINER	Should have minimum 10 installation in government institution	To have minimum 10 installations in Mauritius is very difficult	The Point stands "**Delete**"
		Should have factory trained engineer support for service. With past record of more than 95% on time service support	Can we propose a non factory trained engineer support?	Accepted
41	Automated Haematology Slide stainer	Should have minimum 10 installation in government institution	It is very difficult for local bidders to have minimum 10 installation in government institution since Mauritius has only 1 government lab for cytology and IHC. 600 slides per hour is highly oversized, and we would request a decrease in throughput as MOH currently does 50-60 slides a day for H&E staining.	Stands Delete
		Should have factory trained engineer support for service. With past record of more than 95% on time service support	Due to limited number of installation in Mauritius, it is very difficult to have factory trained engineer support.	Accepted
42	LASER FLOW CYTOMETER	System should be US FDA / European CE	Kindly advise if the requirement should read USA-FDA or European-CE approved model.	"/" stands for "or"
			Kindly advise if the Laser Flow Cytometer should have an autosampler	No autosampler

42	LASER FLOW CYTOMETER	System should be US FDA / European CE	Should the requirement be read as USA-FDA or European-CE approved model.	"/" stands for "or"
			Kindly advise if the Laser Flow Cytometer should have an autosampler	No autosampler
46	Fully Automated & Integrated Biochemistry and Immunoche mistry Open System Auto Analyser.	Throughput: at least 250 or more tests per hour with ISE out of which at least 400 to be photometric tests.	As HSCC is requesting a system which can be upgraded with immunochemistry module, the throughput of the instrument will be more than 250 tests/hr . We would request the throughput, on board sample capacity, on board reagent capacity to be increased so that it can also accommodate the 400 photometric tests requested.	Throuhput 400 0r more
46	FULLY AUTOMATIC CLINICAL CHEMISTRY ANALYSER	27. Should have US FDA /European CE from notified body approved.	Not to be limited to US FDA -Limits to 1 or 2 brands. CE to be permited and to be open system	NO Change
47	Fully Automatic Chemilumine scence Immunoassa y Analyser.	According to qualification criteria, a bidder is eligible to bid only if it has successfully deliver same equipment during the last 5 years. However we have successfully delivered equipment in same category (Biocbemistry Analysers, Haematology Analyser, Flow Cytometers etc). Therefore in line of these can we still participate in this item 47 bearing in mind that tbis belongs to the IVD segment. Item 47 will be of the same brand.		No Change

49	LAB REFRIGERATORS WITH 3 TO 5 SHELVES	CE/ISI mark or other equivalent quality certification	Kindly clarify if the requirement should read CE or ISI or any other equivalent quality cetification	"/" stands for "or"
49	LAB REFRIGERATORS WITH 3 TO 5 SHELVES	CE/ISI mark or other equivalent quality certification	Is the requirement be read as CE or ISI or any other equivalent quality cetification	"/" stands for "or"
50	Cold Room			Refer below for Revised Specification Page 33 of Amendment – I
54	Blood Gas Analyzer	Essential Measured parameters; pH, pCO2, pO2, SaO2 with co-oximetry (optional), Hb, Lactates, BUN, Glucose, Na+, K+, Ca++, Cl-. All these parameters should be measured simultaneously.	Can parameters; PO2,PCO2 ,pH,Hct,Na+,K+,Ca++, THb (Total Hemoglobin), pH (T) (pH temperature corrected), PCO2 (T) (PCO2 temperature corrected),PO2 (T) (PO2 temperature corrected), TCO2 (Total Carbon dioxide), HCO3- (Bicarbonate) ,BEb (Base Excess in blood) ,BEecf (Base Excess in extracellular fluid),SBC (Standard Bicarbonate), %SO2c (Oxygen Saturation)(calculated at normal P50), CtO2 (Oxygen Content), A-aDO2 (Alveolar arterial oxygen gradient),RI (Respiratory Index), be accepted? -Same equipment with the specifications was installed in ENT hospital and end users are satisfied.	Revised Specification mentioned below Page 36 of Amendment -I
57	REFRIGERATED CENTRIFUGE		Is calibration & IQ/OQ/PQ required for this item?	Stands Delete
57	REFRIGERATED CENTRIFUGE		Please specify if calibration & IQ/OQ/PQ are required for this item.	Stands Delete

58	Cell Seperator	2: Single/Dual Needle Operation. However we are of opinion that for Mauritius andinternational protocols single needle operations is enough and yield same results. We therefore request thatthis specification be read as Single and/or Dual Operation instead as Single/Dual Operation.		Single and/or Dual Operation
59	PORTABLE VENTILATOR (PEDIATRIC)	17.Should have proximal flow sensor to measure exhaled volumes.	Delete this. Many vendors can participate without this criteria	No Change
	INFUSION PUMP (VOLUMETRIC)	3.5 Nurse call output alarm, time and date settings	Delete this. Many vendors can participate without this criteria	No Change
59	INFUSION PUMP (VOLUMETRIC)	3.5 Nurse call output alarm, time and date settings	Delete this. Many vendors can participate without this criteria	No Change
59	PULSE OXIMETER	17 Should have RS 232C port or equivalent port for data transmission.	Delete this as there is other methodes in the system for data transmission.	No Change
59	HOT AIR OVEN	2. Chamber volume should be L / cu. Ft. 160 Liters / 6.0 or more.	Required Capacity should be increased up to 215L Temp range – Required +50 – 330degree, ours 50° to 250°C.	Accepted
59	INCUBATOR	5. Should have Broad temperatures range from 5 °C above ambient to 105 °C –	5 degree to 60 degree - to be allowed	No Change
60	BINOCULAR RESEARCH MICROSCOPE WITH CAMERA ATTACHMENT	Should be US FDA/European CE/ BIS approved product	Please clarify if the requirement should read US FDA or European CE or BIS approved product	"/" stands for "or"
	HOT AIR OVEN	The calibration, IQ, OQ and PQ of th instrument should be performed at the time of installation and certificates should be provided.	to remove IQ, OQ and PQ since it is not necessary and this is normally not required during installation of a hot air oven.	Accepted

	INCUBATOR	The calibration, IQ, OQ and PQ of th instrument should be performed at the time of installation and certificates should be provided.	to remove IQ, OQ and PQ since it is not necessary and this is normally not required during installation of a laboratory incubator.	Accepted
	PH METER	Demonstration of performance of equipment in nearby area failing to which will be disqualification	It will be difficult to arrange for demonstration of equipment in India.	Accepted
	WATER BATH	The calibration, IQ, OQ and PQ of th instrument should be performed at the time of installation and certificates should be provided.	to remove IQ, OQ and PQ since it is not necessary and this is normally not required during installation of a water bath	Accepted
	DISTILLED WATER PLANT	Shoud perform calibration of the equipment yearly during warranty and free service period. Testing and measuring equipments used should be traceable to SI units through National / International Standards (As per NABL norms)	This requirement should be removed as calibration of distilled water equipment is not required in Mauritius. We do not use NABL norms in Mauritius.	Accepted
	CENTRIFUGE HIGH SPEED WITH TACHOMETER	Should be US FDA/European CE/ BIS approved product	Please clarify if the requirement should read US FDA or European CE or BIS approved product	"/" stands for "or"
	VDRL SHAKER	Demonstration of performance of equipment in nearby area failing to which will be disqualification	It will be difficult to arrange for demonstration of equipment in India.	Accepted
	COLORIMETER	Filter: Seven Glass Filter	Kindly advise if 5 filter shall be acceptable	Accepted
		Analogue output cable	Kindly advise if a system without analogue output cable shall be accepted	No Change
		Bulbs - 3nos	Kindly advise if a system with LED light source will be acceptable. If yes, Kindly remove this requirement since LED light sources have long life times and do not need frequent replacement	Accepted
		Should be US FDA/European CE or BIS approved product	Please clarify if the requirement should read US FDA or European CE or BIS approved product	"/'' Stands for "or"

60	Micropipette sets	There is no specification /technical details on Page 207	Please confirm the range and also if Micropipette shoud be fixed or variable	Quote both the Fixed as well as Variable
60(a) - 9	HOT AIR OVEN	The calibration, IQ, OQ and PQ of th instrument should be performed at the time of installation and certificates should be provided.	IQ, OQ and PQ not required since this is a small equipment.	Accepted
60(a) - 10	INCUBATOR	The calibration, IQ, OQ and PQ of th instrument should be performed at the time of installation and certificates should be provided.	IQ, OQ and PQ not required.	Accepted
60(a) - 20	WATER BATH	The calibration, IQ, OQ and PQ of th instrument should be performed at the time of installation and certificates should be provided.	IQ, OQ and PQ not required.	Accepted
60(a) - 21	DISTILLED WATER PLANT	Shoud perform calibration of the equipment yearly during warranty and free service period. Testing and measuring equipments used should be traceable to SI units through National / International Standards (As per NABL norms)	NABL norms is not required in Mauritus is not required as well as yearly callibration. This is a heating element and doest not require callibration.	Accepted
60	CENTRIFUGE HIGH SPEED WITH TACHOMETER	Should be US FDA/European CE/ BIS approved product	Please let us know if the requirement should read US FDA or European CE or BIS approved product	"/" Stands for "or"
60(a) - 35	VDRL SHAKER	Demonstration of performance of equipment in nearby area failing to which will be disqualification	Demonstration can only be done in Mauritius	Stands Delete
60(a) - 37	COLORIMETER	Filter: Seven Glass Filter	Kindly advise if 5 filter shall be acceptable	Accepted

Revised Specification

Item No. 50. COLD ROOM

Walk in cooler must be efficient and have high quality of insulation preferable polyurethane foam thickness 60 mm with 0.5 mm Stainless Steel 304 on outer and inner covering of walls/sealing having low thermal conductivity between 0.019 to 0.022 W/M° C.
Prefabricated PUF Panels to prepare a external room of size (L x W x H) 10 ft x 10ft x 9ft .

Cold Room temperature +2 to +8 Deg. C.
Pre fabricated PUF panels for floor with GI Antiskid flooring.
Supply of 1 No. flush type door along with door closer with 180 degree open facility.
Walk in cooler must be such that it may be shifted to different place easily without any major loss of room and cooling unit. Preferably made up of good quality cam locking system with metallic plunger should be provided to interlock each panels without using rivets or nails or any other fastening material. The Cyclopentane puf panels should be self extinguishing under ASTM: 1692 and the density of panels should be 40 +/- 2° 1g/m3. Corner panels should be provided for preparing neat and clean compact room. Firm should provide a undertaking from the principals for atleast 22% electrical savings from the normal PUF.
Heat Load: Please indicate the Heat Load in BTUH, minimum heat load shall be 10000. Air cooled condensing unit shall comprise of compressor. Condensing & evaporating unit shall be Quantity 2 Nos. (1 Working + 1 Stand by). The Refrigerant shall be R-404a/ 22.
Evaporator unit matching with condensing unit complete with coil section and suitable defrosting arrangement (Euro vent standard). Evaporating unit casing should be of SS-304. Quantity 2 Nos. (1 Working + 1 Stand by). Refrigerant R-404a/ R-22. Split type unit with 100% stand by
Refrigeration units shall be automatic without any operator
Safety equipment's shall be incorporated
HP/LP cut out & Thermostat controlled unit.
Shall have Safety release lever to open the cold room from inside in case some person is locked inside the cold
Shall be Design at ambient temperature of 45 Deg C
Shall have Ozone friendly Cyclopentane blown foam at ± 2 Kgs. / Cubic Mtr.
High 90-95% closed cells.
Refrigerant piping shall be with cooper pipes, Drain piping and Suction Line Insulation.
Refrigerant controls shall includes
Thermostatic expansion valve.
Liquid line and filter drier.
HP/LP switches
Protection by thermostat
Electrical digital temperature indicator cum controller for auto cutoff system.
With vapor proof lighting in the room.

Heat load calculation should be submitted along with the tender documents.
Suitable stabilizer should also be supplied with both the unit.

REVISED SPECIFICATION

54. BLOOD GAS ANALYSER

A fully automated pH/Blood gas/electrolyte analyzer measuring the following parameters:
- pH, PCO2, PO2, Barometric pressure.
- Na, K, Ca, Cl Glucose & Lactate.
- Co-oximetry: ct Hb, CCO Hb, Met Hb, H Hb, Haematocrit and Barometric pressure.

• Sample volume should be approximate 200 µl for all parameters.
• All calibration and cleaning cycles should be fully automated with user selectable Calibration items.
• Calibration should be performed by liquid calibration for all parameters.
• The electrodes provided should be zero maintenance including the reference electrode.
• The system should have on board data manager to store all patient results, QC data and calibrations.
• The system should have a closed waste system and mentioned continuously. Also all the system reagents should be monitored continuously.
• A power fail protection for 20 min.t o take all calibration and programmed data.
• The analyzer should have a colour LCD screen to access all the system software and to display the patient's results. With alphanumeric key board/touch screen/graphic display, barcode reader port, RS -232 computer interface port.

- Reportable parameters, measure and calculated are printed in report.

• A built in thermal printer should be provided to print out patient results.
• The system should work in discrete testing, ie, selectable parameter testing.
• Should be supplied with consumable, reagents and QC agents for 1000 tests, as per the user requirements so that they do not expire.
• Should not preferably use special gases.

- Suitable UPS with at least 30 min backup
- Equipment should be USFDA or European CE (from notified body) approved.
- Cost of all consumables (including reagents, Cartridge, paper, electrode if applicable) to be quoted for comparative evaluation. Consumables for one year @ at least 100 samples/day for all tests should be quoted and it will be taken for price comparison.

BOQ		
ABG Machine as per specification	Unit Cost (Per samples for all tests)	1 No. No. of samples
All consumables (including reagents, Cartridge, paper, electrode if applicable) per samples for all tests for first years (365 X 100 X 1)		36,500 samples

COMPLIANCES OF THE FOLLOWING ARE MANDATORY FOR ALL THE MEDICAL EQUIPMENT:

1. For Radiology equipment i.e. X-Ray, Ultrasound, MRI & CT-Scan etc.

    a. Equipment should be DICOM (Digital Imaging and Communications in Medicine) enabled DICOM provides reliable protocols for integration of image data between imaging, non-imaging modalities, devices and systems.

    b. Equipment complied with HL7 (Health Level Seven) standards

    c. Capable to link with **PACS & HMIS**. Any Hardware/lock/software license required for interfacing with PACS & HMIS should be supplied with the equipment/device.

    d. API of the equipment should be provided.

2. For Laboratory Equipment/device:

a. Equipment communicates in one of the following ways:

    A. TCP/IP
    B RS-232
    C. USB

    Any type of cable/hardware/lock/software/license required for integration with HMIS system should be provided.

    Please provide configuration parameters to connect with HMIS successfully.

b. Data accepted/send by the device/equipment should be readable as standard data Type in ANSI C/C++.

c. Comprehensive list of all data structures imported and exported by the device should be documented with examples.

d. API of equipment should be provided.

e. Technical interface specification should be provided.

Above standards are required for interfacing of equipment with PACS & HMIS for computerization of hospital.

All other terms & Conditions remains unchanged.

Senior Chief Executive,
Ministry of Health & Quality of Life,
Govt. Of Republic of Mauritius,
Mauritius