



**GOVERNMENT OF GOA  
Medical Store Depot (MSD),**

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No. 85/PT/DHS/MSD/2019-20/996

Dated: 07/10/2019.

**CORRIGENDUM**

**Ref.: Tender Notice No. 85/DHS/MSD/PT/2019-20/794 dated: 11/09/2019.**

In the Tender Notice No. 85/DHS/MSD/PT/2019-20/794 dated: 11/09/2019, following clauses are amended which may be read as follows:

<b>Page No.</b>	<b>Tender Clause No.</b>	<b>Existing Clause</b>	<b>Ammended to</b>
7	Technical bid Clause No. 9	<b>CE certificate</b> of the manufacturer/ Company is to be furnished and should be uploaded/ attached for all the equipments	<b>European CE/ US FDA certificate</b> from notified body to be furnished and should be uploaded/ attached for all the equipments
8	Financial bid Clause No. 7	Rates of AMC after the stated warranty period along with the number of visits, to be quoted showing <b>yearly prices of unit machine separately up to 5 years (Year wise)</b> . Rates to be quoted in Indian Rupees as a figure and not as a percentage. The 5 years AMC rates will be considered while computing cost of the equipment.	Is retained. The selected bidder should carry out maintenance of machinery & equipments for 5 years after warranty period of 2 years.

**Annexure I (Radiology)**

<b>Page No.</b>	<b>Point No.</b>	<b>Existing Specification</b>	<b>Ammended to</b>
<b>Item No. 1: 200 m.A High Frequency X-ray Machine</b>			
17	X-ray Generator Point No. 1	High frequency X-ray Generator having frequency of <b>50 KHz or more</b> should be provided.	High frequency X-ray Generator having frequency of <b>40 KHz or more</b> should be provided.
	Control: Point No. 8	<b>APR</b> : Anatomical Preprogrammed parameters of human anatomy upto <b>216 programs</b> , which helps the user to select exposure parameters based on body part, examination view and size of the patient.	<b>APR</b> : Anatomical Preprogrammed parameters of human anatomy upto <b>200 or more programs</b> , which helps the user to select exposure parameters based on body part, examination view and size of the patient.
<b>Item No. 2: 500 m.A.High Frequency X-ray Machine</b>			
18	1. Control Panel: Point (g)	Should have <b>250 or more APR</b> of human Anatomy, which helps the user to select exposure parameters based on body part, examination view and size of the patient.	Should have <b>200 or more APR</b> of human Anatomy, which helps the user to select exposure parameters based on body part, examination view and size of the patient.
19	2. X-Ray Generators:		
	Point (c)	Frequency: 450 KHz	Frequency: 40 KHz and more
	Point (i)	Comprehensive PC service utility tool: mA Range: 10-500 mA in 18 steps ms Range: <b>1-6300 ms in 38 steps</b> mAs Range: 0.5-600 mAs in 32 steps (optional 0.5 – 1000 mAs in 34 steps)	Comprehensive PC service utility tool: mA Range: 10-500 mA in 18 steps ms Range: <b>1 ms-3000 ms in steps</b> mAs Range: 0.5-600 mAs in 32 steps (optional 0.5 – 1000 mAs in 34 steps)
	Point (k)	MOSFET Inverter Technology	AC/ DC Inverter Technology or MOSFET Inverter Technology or equivalent
20	5. Table Point (h)	Should have Patient Weight carrying capacity of <b>300 kg. or more</b>	Should have Patient Weight carrying capacity of <b>atleast 200 kg.</b>

**Annexure II (Laboratory)**

Page No.	Point No.	Existing Specification	Ammended to
<b>Fully Automated Blood Culture System</b>			
41	Point No. 7	System should be based on <b>sensitive fluorescence technology</b> for interpretation of results	System should have <b>fluorescence/ colorimetry technology for interpretation</b> of results
	Point No. 13	The Antibiotic Removal Devices must have proven record of antibiotic neutralization at trough, mid and peak levels in the blood specimen. Proof source should be submitted	Delete

Page No.	Existing Specification	Ammended to
<b>Fully Automated Wet Chemistry Analyser</b>		
<b>36 &amp; 37</b>	<ul style="list-style-type: none"> <li>(1) Fully automated, random access, discrete with STAT sample priority.</li> <li>(2) Throughput upto 200 tests/ hour.</li> <li>(3) Support methods like Endpoint, fixed time, kinetic and immunoturbidimetry assays.</li> <li>(4) Reagent tray with 40 reagent position.</li> <li>(5) Minimum reaction volume as low as 150 µl.</li> <li>(6) Sample tray with 40 sample position.</li> <li>(7) 8 filters with forward optic technology and fiber optic transmission.</li> <li>(8) Multifunction reagent/ sample probe liquid level detection and collision protection and preheating function.</li> <li>(9) Independent mixer probe available.</li> <li>(10) Sample volume should as low as 3 µl.</li> <li>(11) Sample auto dilution facility and automated calibrator serial dilutions.</li> <li>(12) On board refrigeration facility for reagents and sample.</li> <li>(13) Using disposable cuvettes for</li> </ul>	<ul style="list-style-type: none"> <li>(1) Should be Random access fully automated analyser capable to giving results per patients.</li> <li>(2) Should have Throughput of 400 test/ hour (Photometry)</li> <li>(3) Should have more than 80 refrigerated reagent positions.</li> <li>(4) Should have 135 Sample positions.</li> <li>(5) Should have Flexibility to use of different type of sample tubes, 12 mm to 16 mm (max heights 100mm) &amp; paediatric cups.</li> <li>(6) Should have facility of Level Detection, Clot detection &amp; Vertical collision detection.</li> <li>(7) Should have flexibility of reagent bottles- 20 ml &amp; 60 ml</li> <li>(8) Should have facility of bar code detection for reagents as well as samples.</li> <li>(9) Should have solid state light source (LED Technology) with a split reference beam with working life of more than 50000 hours. OR Halogen/ Xenon Lamp with Wave Length Range:340 – 800 nm with polychromatic correction.</li> <li>(10) Should have low maintenance wear</li> </ul>

<p>avoiding all carry over and contamination</p> <p>(14) Water consumption not more than 3.5 L/ hour.</p> <p>(15) Compact and less weight.</p> <p>(16) Real time status of sample disk.</p> <p>(17) Real time status of reagent disk.</p> <p>(18) Real time status of reaction disk.</p> <p>(19) Real time status of monitoring of reaction curve.</p> <p>(20) Real time status of calibration curve.</p> <p>(21) Upto 10 virtual reagent disk and 20 sample disk are programmable.</p> <p>(22) Detailed profile for sampling and compatible to LIS and HIS.</p> <p>(23) Unlimited data storage.</p> <p>(24) Able to perform calculated tests.</p> <p>(25) Auto return with preset conditions.</p>	<p>dispensing pump with Ceramic Piston (maintenance free)</p> <p>(11) Should have Reagent Volume minimum 200uL.</p> <p>(12) Should have facility of dispensing Sample Volume from 2uL to 40 uL with 0.1 uL resolution.</p> <p>(13) Should have more than 100 reaction well material UV Methacrylate for optimal accuracy &amp; precision.</p> <p>(14) Should have on board laundry system with 7 step washing procedure.</p> <p>(15) Should have photometric measuring range upto 3.5 A.</p> <p>(16) Should have min 8 wavelengths.</p> <p>(17) Optical System should have hard coated filters(340,405,505,535,580,600,635,670) to provide maximum stability &amp; longer durability.</p> <p>(18) Should have 2 reagents probes &amp; 2 mixers for optimal homogenization in min time.</p> <p>(19) Should have self controlled electronic system through CAN (controller Area Network) bus optimize performance &amp; reduce maintenance down time.</p> <p>(20) Should have user friendly software for real time work session &amp; exhaustive quality control analysis viz., WestguardRules, Youden&amp; L-J Charts.</p> <p>(21) Should have reagent &amp; Sample barcode facility ( optional)</p> <p>(22) System should have automatic measurement of the fluidic system, equipped with air bubble detection technology to ensure optimum performance.</p> <p>(23) Should have STAT facility for EMERGENCY TEST.</p> <p>(24) Should have pre &amp; post dilution for abnormal samples.</p> <p>(25) Should have facility of LIMS integration&amp; 3 independent power supply (Analyser, Refrigerator &amp; ISE Module)</p> <p>(26) Should have the CE, FDA&amp; ISO</p>
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		<p>Certificates</p> <p>(27) User/Technical/Maintenance manuals to be supplied in English.</p> <p>(28) Certificate of calibration and inspection to be provided by the company.</p> <p>(29) List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service/ technical manual.</p> <p>(30) List of important spare parts and accessories with their part number and costing</p> <p>(31) Log book with instruction for daily , weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out</p> <p>(32) Performance report in the last 5 years from major hospitals should be enclosed</p> <p>(33) System as specified Deoiniser : With suitable water output capacity , Trial kits for various parameters, multi-calibrators and multicontrols.-</p> <p>(34) Data Processor Computer with printer etc to be provided</p> <p>(35) All consumables required for installation and standardization of system to be given free of cost.</p> <p>(36) Power input to be 220-240VAC(Single Phase),/400-440 V (3 Phase)/ 50Hz as appropriate fitted with Indian plug 6.2 Voltage corrector/stabilizer of appropriate ratings meeting ISI Specifications.( Input 160-260 V and output 220-240 V and 50 Hz)</p> <p>(37) Suitable UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system.</p>
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**Annexure III (General)**

<b>Page No.</b>	<b>Point No.</b>	<b>Existing Specification</b>	<b>Ammended to</b>
<b>Anaesthesia Workstation</b>			
7. Gas Delivery System			
47	Point (d)	Having <b>reservoir based</b> audible and visual oxygen failure alarm of at least 7 seconds	Having audible and visual oxygen failure alarm of at least 7 seconds
	Point (g)	Should have minimum mandatory flow of <b>250 ml/ min</b> of O <sub>2</sub>	Should have minimum mandatory flow of <b>50-250 ml/ min</b> of O <sub>2</sub>

**Annexure V (Orthopaedic)**

<b>Page No.</b>	<b>Point No.</b>	<b>Existing Specification</b>	<b>Ammended to</b>
<b>C-Arm Image Intensifier</b>			
62	A) Image Intensifier Point No. 2	CCD Camera: High Resolution Compact CCD Camera.	Camera: High Resolution Compact CCD/ CMOS Camera or equivalent

Sd/-  
Director of Health Services