



GOVERNMENT OF KARNATAKA
KARNATAKA STATE DRUG LOGISTICS & WAREHOUSING SOCIETY®

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No. KDL/EOPT/Covid-19/KCG/70/2020-21

Dated: 01/09/2020

CORRIGENDUM

INVITATION FOR QUOTATIONS (IFQ) FOR SUPPLY AND INSTALLATION MEDICAL EQUIPMENTS FOR KCG FOR COVID-19 PANDEMIC.

Sl. No	Schedule of Events	Present Schedule	Postponed/Revised Schedule
1	Last date and time for Submission of Quotation.	01/09/2020 up to 5.00 pm.	04/09/2020 up to 5.00 pm.

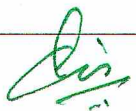
Sl. No	Name of the Item	Quires	Existing Clause	Changed to
1	a. Multichannel coloured Monitors with ETCO ₂ , 5-parameters smart" b. Multichannel coloured Monitors with ETCO ₂ , 7-parameters smart"	1) Digital SpO ₂ technology should sense the SPO ₂ in hypotensive, shivering & motion condition. Should display perfusion index 2) Display : Color TFT display of size 12" or more 3) SpO ₂ measured should have pitch variation with increment or decrement of SpO ₂ values. 4) Should Be upgradable to IBP (Dual Channel), ETCO ₂ , (Micro stream), Multigas, (CO ₂ +O ₂ +5	<u>CATEGORY-A</u> 1. "Multichannel coloured Monitors with ETCO ₂ clinical Bed side - Multichannel Colour monitors - 15", 5 para & 7 para, Touch screen with optional (MS software & remote view app) 5- Parameters smart" 2. "Multichannel coloured Monitors with ETCO ₂ clinical Bed side - Multichannel Colour monitors - 15", 5 para & 7 para, Touch	<ul style="list-style-type: none">• 15" screen variant multiparameter vital sign monitor.• Up to 9 real time configurable waveform display.• Can measure up to 9 vital signs:<ol style="list-style-type: none">1. ECG/EKG (Electrocardiograph)2. NiBP (Non-invasive blood pressure)3. SpO₂ (Oxygen saturation)4. RR (Respiratory rate)5. Temperature6. IBP* (Invasive blood pressure)7. EtCO₂ * (End-tidal carbon dioxide –

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		<p>Anaesthetic agents) or thermal recorder at any poiny time</p> <p>5) The monitor should be ISO 13485, European CE approved.</p> <p>6) Should display 12 Lead ECG.</p> <p>7) Should have connectivity to Central station</p> <p>8) The monitor should be able to save trends on USB pen drive which can be printed easily from computer without help of any specialized software.</p> <p>9) Should be able to connect to HIS / HL7</p> <p>10) The scope of supply should be:</p> <ul style="list-style-type: none"> o SpO2 reusable probe -1 o NIBP cuff for adult, children and neonates – 1 each o ECG Cable – 10 Lead – 1 o ECG Cable – 10 Lead – 1 <p>1. It should be capable of monitoring ECG, non-invasive blood pressure, oxygen saturation (SpO2), Respiration, IBP & ETCO2. If 2 SpO2 modules are connected than it should be able to display both site saturation.</p> <p>The monitor should be with color of minimum 12” in size with coloured waveforms. Display of waveform as well as the number should be clearly visible from distance of up to 6 to 10 feet.</p> <p>2) The Monitor should have direct connectivity to Laser printer for normal printout & Also should have</p>	<p>screen with optional (MS software & remote view app) 7- parameters smart"</p>	<p>capnography)</p> <p>8. CO* (Cardiac Output)</p> <p>9. BIS* (Bispectral Index)</p> <ul style="list-style-type: none"> • Single knob to browse menus/sub-menus. • Touch screen required. • Design facilitates transit monitoring • Large font enables viewing from a distance • Audio and visual alarms for all vital parameters • Night mode increases TFT working life and ensures patient comfort in low light conditions • Easy to recognize alarm priority system with color coded visual indication, variable pitch and melodious sound.

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		<p>direct connectivity to HL 7.</p> <p>3) The monitor should be upgradeable to Multigas. The upgradable parameters should be modules & should be freely exchangeable for same make of monitors.</p> <p>4) The monitor should display at least 11 curves at a given time and the operator should be able to arrange curves, graphics and measured value fields as desired on the screen. The operator should be able to freeze the waveforms as well.</p> <p>5) On non-connection of any parameter the screen should automatically adjust the waveform placement.</p> <p>6) The unit should be CE or US FDA approved.</p> <p>7) The monitor should facility to connect to Wired / Wi Fi Central station.</p> <p>8) Should have VGA out to connect external slave monitor & also should get connected to external Laser printer directly without any computer interface</p> <p>9) Should be able store memory on pen drive and printout of same can be taken from computer without any special software</p> <p>10) Pulse Oximeter (SpO2)</p> <p>1. Should provide a digital value of the arterial oxygen saturation as well as diagnostic Plethysmograph pulse</p>		



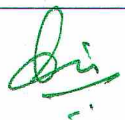
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		<p>waveform.</p> <p>2. Measurement range: 0% to 100%</p> <p>3. User selectable upper and lower alarm limits.</p> <p>4. Standard reusable pulse Oximeter probes for adult & paediatric use.</p> <p>5. Should be sensitive and function accurately even at low perfusion states of low blood pressure or hypothermic conditions.</p> <p>11) Respiration</p> <p>1. Range: 0-120 rpm or more</p> <p>2. Accuracy: ± 2 rpm</p> <p>3. Should have an apnoea alarm</p> <p>12) Non-invasive blood pressure (NIBP) monitoring:</p> <p>1. Should have Oscillometric method of measurement of BP.</p> <p>2. Range: 10-250 mm Hg for adults, 10-200 for paediatric and 10-135 for neonates</p> <p>3. Should provide over pressure protection</p> <p>4. BP cuffs should be latex free, CE certified, washable and sterilizable, Velcro based, carrying artery symbol and index line</p> <p>5. Accessories, NIBP cuff:</p> <p>a. For Adult Thigh</p> <p>b. For arm: Large adult, Adult, Small adult, Paediatric, Neonatal</p> <p>13) ETCO2 (Capnography)</p> <p>1. The monitor should have side stream capnography</p> <p>2. Measurement range : 0.0~15%</p> <p>Resolution : 1 mmHg</p>		




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		<p>Breath detect: Adaptive threshold, minimum 1 vol% CO2 change</p> <p>3. Unit selection : %, mmHg, kPa</p> <p>4. Accuracy : At<5% CO2, ±3% (±2.0 mmHg) At<5% CO2, <±10% of reading</p> <p>5. Range of respiration rate measurement : 0~150 rpm</p> <p>14) IBP (Invasive Blood Pressure)</p> <p>1. Should have dual channel IBP</p> <p>2. Should measure all types of Invasive pressures</p> <p>3. Should be supplied with 5 disposable IBP transducers.</p> <p>15) Accessories to be supplied with each Monitor</p> <p>10 Lead ECG cable – 1 nos.</p> <p>Adult SpO2 Probe – 1 nos.</p> <p>NIBP Cuffs (Adult, Paediatric & Neonate) – 1 each</p> <p>NIBP Hose – 1 no.</p> <p>Temperature Probes – 2 nos.</p> <p>IBP Disposable transducer – 10 nos.</p> <p>IBP Disposable transducer – 10 nos.</p> <p>Power cord -1 no.</p>		




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2	Multichannel coloured Monitors with ETCO2, 5-parameters smart"	ITEM NO.1. The specification of Multichannel coloured monitors with ETCO2-5 Parameter smart: Kindly clarify what 5 parameters are required as you have mentioned the same for 7 parameter as well. Furthermore in the technical specification you have mentioned both 5 para and 7 para touch screen with optional MS SOFTWARE AND REMOTE VIEW APP: Kindly clarify what exactly is required for remote view app, you might need Central Monitoring station and a software for the remote view app, who will purchase the Hardware for the remote view app.	"Multichannel coloured Monitors with ETCO2 clinical Bed side - Multichannel Colour monitors - 15", 5 para & 7 para, Torch screen with optional (MS software & remote view app) 5- Parameters smart"	No Change
3	Multichannel coloured Monitors with ETCO2, 7-parameters smart"	ITEM NO.2. The specification of Multichannel coloured monitors with ETCO2-7 Parameter smart: Kindly clarify what 7 parameters are required AS. Clarification required is same as above as the specification is same for both.	"Multichannel coloured Monitors with ETCO2 clinical Bed side - Multichannel Colour monitors - 15", 5 para & 7 para, Touch screen with optional (MS software & remote view app) 7- parameters smart"	No Change
4	Syringe Pump	Must work on commonly available 20ml, 50ml, 60ml syringes.	Page No. 3 TECHNICAL CHARACTERISTICS Page No. 5. Must work on commonly available 20ml, 50ml, 60ml and 100 ml syringes	No Change



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5	Defibrillator	Should be able to deliver shock from 50-200joules in biphasic mode via metal chest pads.	Page No. 5 TECHNICAL CHARACTERISTICS Point No. 10 Should be able to deliver shock from 50-360 joules in biphasic mode via metal chest pads.	No Change
6	Defibrillator	Rechargeable Battery back minimum operation up to 2 -3 hours in monitoring mode or at least 100 defibrillation shocks should be delivered from fully charged battery	Page No. 5 ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2) Point No. 24. Battery operated: Rechargeable battery backup of approximately 5 hours.	No Change
7	Defibrillator	Certification : FDA/CE	Page No. 6 STANDARDS AND SAFETY Point No. 36. Certifications: FDA, CE; IEC-60601-1-2:2007; IEC 60601-1-8-2006; IEC 60601-1-SER-Ed 1.0-2011; IEC/TRF 60601 - 1-8 Ed4.0 - 2010; ISO 13485.	No Change
8	Defibrillator	User interface : The monitor should have a minimum 8" colour TFT display with 2 waveform display	Page No. 5 TECHNICAL CHARACTERISTICS Point No. 14. User's interface: The monitor should have a TFT color display with a three channel display.	No Change


Medical Superintendent
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Food Safety and Standard Authority and
Director, KSDLWS Bengaluru

