

## PROCUREMENT FOR A PROFESSIONAL SERVICE PROVIDER TO SUPPLY, DELIVER, INSTALL, AND COMMISSION AN ENVIRONMENTAL MONITORING SYSTEM FOR NUCLEAR MEDICINE DEPARTMENT AT Ithemba LABS

Please find responses to queries Raised:

<u>Questions</u>	<u>Responses</u>
<p>1. Please can you confirm the total number of sensors , particle counters, dp's and beacons. We need confirmation we have included the full requirement :</p> <ul style="list-style-type: none"> <li>Total of 16x counters for Grade A &amp; Background positions.</li> <li>Total of 31 pressures</li> </ul>	<p>Confirmed numbers in red</p> <ul style="list-style-type: none"> <li>Total of 16x counters for Grade A &amp; Background positions. <b>19</b></li> <li>Total of 31 pressures <b>29</b></li> <li>Total of 16 PRT/Thermocouple temperatures for fridge/freezer, incubator, oven and furnace <b>37</b></li> </ul>

<ul style="list-style-type: none"> <li>• Total of 16 PRT/Thermocouple temperatures for fridge/freezer, incubator, oven and furnace</li> <li>• The alarm network needs 5x beacons for the cleanrooms,</li> <li>• 4x digital clocks.</li> <li>• 17x displays for the T/RH &amp; Pressures.</li> </ul>	<ul style="list-style-type: none"> <li>• The alarm network needs 5x beacons for the cleanrooms, <b>11</b></li> <li>• 4x digital clocks. <b>5</b></li> <li>• 17x displays for the T/RH &amp; Pressures. <b>17</b></li> </ul>
<p>2. Please assist with Technical questions below.</p> <ul style="list-style-type: none"> <li>• Wall Material and thickness</li> <li>• Room dimensions</li> <li>• Can we supply partially</li> <li>• Software integration with SCADA?</li> <li>• Air velocity sensor supply?</li> </ul> <p>We will not be able to supply conductivity, vacuum and particle counter.</p> <ul style="list-style-type: none"> <li>• Appendix 13 info on clocks</li> </ul> <p>3.1.12 referring to Appendix 13</p>	<p>Responses in Red:</p> <ul style="list-style-type: none"> <li>• Wall Material and thickness <b>Average wall thickness is 220 mm and is a combination of brick and mortar. Clean rooms have paneling, with an estimated thickness which is to be confirmed.</b></li> <li>• Room dimensions : <b>Bidder are free to conduct optional site visit to confirm the dimensions.</b></li> <li>• Can we supply partially - <b>You can, but this may count against you if others can supply the full package</b></li> <li>• software integration with SCADA? - <b>It is a stand-alone system</b></li> <li>• Air velocity sensor supply? - <b>not part of scope</b></li> </ul>

<ul style="list-style-type: none"> <li>• Ref 2.2.9 according to the table supplier is responsible for writing the qualification protocol, do we need to do it?</li> </ul>	<ul style="list-style-type: none"> <li>• We will not be able to supply conductivity, vacuum and particle counter. - <b>This is a specific requirement of the tender</b></li> <li>• Appendix 13 info on clocks - <b>digital displays at least 50 cm x 30 cm</b></li> <li>• <b>The supplier is required to provide all protocols as per table Responsibilities for Qualification</b></li> </ul>
<p>3. Your URS refer to the requirement to include the supply of environmental sensors for pressure etc. but that there are some sensors installed already that must just be integrated into the new EMS.</p> <p>1 - How many of these sensors are installed already ?</p> <p>2 – Are these sensors all 4- 20 mA or some other format ?</p> <p>3 – There is a requirement for HMI ( for display of the particle count data etc....)</p>	<p><b>We do not have any sensors installed.</b></p> <p><b>We wish to add certain equipment to the EMS such as claves, ovens, incubators. There are about 10 units we wish to add.</b></p> <p><b>0</b></p> <p><b>Usually 4-20 mA</b></p> <p><b>Yes, there are 5 HMI each for a cleanroom Cleanrooms 1, 2, 3, Micro and R&amp;D</b></p>

<p>In some sections there is a reference for 3 of these units for CR1,2,3 and in another for 5 for CR 1 ,2, 3 as well as Clean room Micro and Clean Room R@D</p> <p>So do you need 3 or 5 HMI units ?</p> <p>4- There is reference to critical process equipment which need to send fault signals and operational status to the EMS. How many of these process equipment signals need to be integrated into the EMS ?</p>	<p>There are about 10 units we wish to add.</p>
<p>4. This scope of work has comprises of 2 options in terms of the pumps, 1st option the pump can be installed inside and the second option the pump can be installed outside.</p> <p>Please be so kind and confirm which option will be suitable for your requirements, there is a price difference in both options in terms of the cost.</p> <p>1. Particle Counter with Internal Pump</p> <p>2. Particle Counter with External Pump</p>	<p>Centralized pump with vacuum tube to the units</p>
<p>5. Thank you, on your document under "Contact Period" you won't amend this portion ?</p>	<p>To be confirmed. Supplier must state if they can install the system in the month provided</p>

<p>"Installation date will be confirmed to the appointed Service Provider and must happen during shutdown period which will be 22 July 2024 till 23 August 2024"</p>	
<p>6. Please assist us with the following:</p> <ul style="list-style-type: none"> <li>- Building Drawings / Building Plan we want to work out the distance for cable ways.</li> <li>- The ceiling information we need to know if the void is big enough to get a person up there.</li> </ul>	<p>Please see under this table.</p>

