



Republic of the Philippines  
Department of Health  
Regional Office No. XI  
**SOUTHERN PHILIPPINES MEDICAL CENTER**  
J.P. Laurel Avenue, Davao City



## **TECHNICAL SPECIFICATIONS**

### **ONE (1) LOT MILK BANK SYSTEM**

(Name of Project)

#### ***Instructions:***

Bidders must state in the column under **Statement of Compliance** the word either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of **ITB** Clause 3.1(a) (ii) and/or **GCC** Clause 2.1(a) (ii).

Bidder may submit offer which provides for superior specifications and /or better terms and conditions to the government at no extra cost. However, these shall not be given any bonus, credit or premium in the bid evaluation

**Prepared by Technical Working Group**

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<b><u>ONE (1) LOT MILK BANK SYSTEM</u></b>	<p><b><u>I. ONE (1) UNIT MILK BANK LABORATORY FREEZER</u></b></p> <ol style="list-style-type: none"> <li>1. Gross capacity of at least 310 liters, net capacity of at least 284 liters</li> <li>2. Refrigerant R 600a</li> <li>3. Low energy consumption 1.309 kWh / 24h</li> <li>4. Comfort electronic controller equipped with volt- free contact for alarm forwarding to an external remote warning system</li> <li>5. Temperature range -9° C to -30° C</li> <li>6. 1- point calibration for accurate temperature control</li> <li>7. Integrated data memory that logs the maximum and minimum temperatures</li> <li>8. Accurate temperature by increment setting 1/10 degrees Celsius</li> <li>9. Static cooling system</li> <li>10. Easily removable and transparent drawers providing a clear view of the products stored inside</li> <li>11. External digital temperature display</li> <li>12. Optical and acoustical malfunction warning signal</li> <li>13. Power failure alarm when main and powers returns</li> <li>14. Door seals are replaceable</li> <li>15. Supplied with 8 drawers in freezer compartment</li> <li>16. Noise level not more than 50 dB</li> <li>17. Power rating: 220-240v 1 phase 50-60Hz 1.5A</li> </ol>		

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<p><b><u>ONE (1) LOT MILK BANK SYSTEM</u></b></p> <p><i>(continuation)</i></p>	<p><b><u>II. ONE (1) UNIT LAMINAR FLOW CABINET</u></b></p> <ol style="list-style-type: none"> <li>1. Equipped with ULPA filters efficiency &gt; 99.999% at particle size between 0.1 to 0.3 µm</li> <li>2. Compliant with the ISO class 3 air cleanliness within the work zone as per ISO 14644.1, or its equivalent</li> <li>3. Intelligent blower system- maintains airflow as the filter becomes loaded, ensuring optimum efficiency and product protection</li> <li>4. Additional disposable pre- filter – traps large particles in the inflow air prior to reaching the main filter protecting against damage and prolonging filter life</li> <li>5. The main body of the clean bench is constructed with industrial grade electro- galvanized steel.</li> <li>6. Electronically ballasted, 5000k lighting</li> <li>7. Horizontal, not more than 5 Feet</li> <li>8. Average airflow velocity of 0.45 m/s (90 fpm) at initial set-point</li> <li>9. Air volume 1771m<sup>3</sup> / hour (1042 cfm)</li> <li>10. Sound emission not more than 60 dBA</li> <li>11. Fluorescent lamp intensity at zero ambient at 1204 Lux</li> <li>12. Cabinet work zone constructed by high grade 18-gauge stainless steel, grade 304, with 4B finishing</li> <li>13. Power rating: 220-240 VAC 1 phase 60 Hz</li> </ol>		

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<p><b><u>ONE (1) LOT MILK BANK SYSTEM</u></b></p> <p><i>(continuation)</i></p>	<p><b><u>III. ONE (1) UNIT MILK BANK ELECTRIC BREAST PUMP</u></b></p> <ol style="list-style-type: none"> <li>1. 2-phase simulation expression technology</li> <li>2. Individual control adjustment of the cycles and vacuum levels</li> <li>3. Gentle stimulation and expression phases possible - according to the physiology of breastfeeding.</li> <li>4. Stimulation cycle max between 120/130 cycles per min.</li> <li>5. Expression suction force max between 340/360 mbars</li> <li>6. Dual pumping for stimulation and time saving</li> <li>7. Fully adjustable for both rhythm speed and pumping strength</li> <li>8. Expression kit without back flow valve to prevent from contamination</li> <li>9. A safety bottle is fitted between pump and milk collecting kit</li> </ol>		

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<p><b><u>ONE (1) LOT MILK BANK SYSTEM</u></b></p> <p><i>(continuation)</i></p>	<ol style="list-style-type: none"> <li>10. Highly durable construction</li> <li>11. One-piece, soft and multi-size silicone breast shield selection of 21-24-26-30 mm</li> <li>12. Quiet and efficient with not more than 50 dBA</li> <li>13. Supplied with 1 bacterial filter and 1 spare</li> <li>14. Supplied with expression pumping kit -- Double pumping expression kits (L cups) - size 24mm</li> <li>15. Supplied with stainless steel adjustable rolling stand</li> <li>16. Supplied with sterilizing tablet 0.5g NaDCC for infection control, or its equivalent disinfectant</li> <li>17. Power rating: Power rating: 220-240v 1 phase 60Hz 1.5A</li> <li>18. Power consumption: 100 VA</li> </ol>		

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<p><b><u>ONE (1) LOT MILK BANK SYSTEM</u></b></p> <p><i>(continuation)</i></p>	<p><b><u>IV. ONE (1) UNIT LABORATORY REFRIGERATOR</u></b></p> <ol style="list-style-type: none"> <li>1. Gross capacity of 360 liters, net capacity of 344 liters</li> <li>2. Refrigerant R 600a</li> <li>3. Insulation 40 -40 mm</li> <li>4. With 5 units storage shelves, refrigerator compartment</li> <li>5. Glass door, wire storage shelves plastic-coated shelf material, refrigerator compartment</li> <li>6. ABS interior cabinet construction</li> <li>7. Powder coated mild- steel board exterior construction</li> <li>8. With temperature range of +3 to + 16 degrees Celsius</li> <li>9. Built-in dynamic forced air cooling</li> <li>10. Automatic defrosting system</li> <li>11. Built-in external digital temperature display</li> <li>12. Ergonomic slim-line handle</li> <li>13. Optical and acoustical malfunction warning signal</li> <li>14. Power failure alarm when main and powers returns</li> <li>15. Low energy consumption; not more than 1.315 kWh / 24h</li> <li>16. Low Noise level not more than 50 dB</li> <li>17. Power rating: 220-240c 1 phase 50-60Hz 1.5A</li> <li>18. Automatic Voltage Regulator: at least 150% of the power total capacity of the equipment</li> </ol>		

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<p><b><u>ONE (1) LOT MILK BANK SYSTEM</u></b></p> <p><i>(continuation)</i></p>	<p><b><u>V. ONE (1) UNIT MILK BANK LABELLING SYSTEM</u></b></p> <ol style="list-style-type: none"> <li>1. Print method: direct thermal/thermal transfer with print resolution of 8 dots/mm (203dpi) or better</li> <li>2. Maximum print speed of 100mm/sec (4ips)</li> <li>3. Maximum print area 104mm (W) x 300mm (L)</li> <li>4. CPU 32 bits RISC-CPU 64Mhz</li> <li>5. Print body memory (Flash ROM), 4MB byte, SDRAM: 8MB byte</li> <li>6. I-Mark sensor (Reflection type), Label Gab sensor (Transparent type)</li> <li>7. Media roll size: Max external diameter 128mm, Paper core inner diameter 40mm, sticker type paper</li> <li>8. Ribbon size max 110mm (W) x 100m (L) with Face out wind direction</li> <li>9. Print direction: Character &amp; Barcode: 0°, 90°, 180°, 270°</li> <li>10. Interface USB (B-type) + RS 232C (D-SUB 9 Pin) model, USB (B-type) + LAN (10 Base-T/100 Base-TX Auto switching) model</li> <li>11. Power consumption: 50W at peak</li> <li>12. Supplied with Label freezer/water resistant proof – 1000's label per roll</li> <li>13. Supplied with special resin ribbon 55mm (W) x 50mm (L)</li> </ol>		

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<p><b><u>ONE (1) LOT MILK BANK SYSTEM</u></b></p> <p><i>(continuation)</i></p>	<p><b>Other terms &amp; conditions of acceptability:</b></p> <ol style="list-style-type: none"> <li>1. The equipment must be BRAND-NEW and under warranty including spare parts for at least 2 years. Supplier must bind itself to conduct preventive maintenance on a quarterly basis at its own expense (including labor and cost of spare parts).</li> <li>2. All machines must be manufactured by a known and reputable company compliant with ISO or its equivalent for equipment only.</li> <li>3. The equipment / machine must be able to comply with its installation and operation qualification which would be conducted in the presence of SPMC Biomedical Technician, End-user and the Company Engineer.</li> <li>4. In line with the ISO standard requirement, the supplier's engineer or technical personnel must be capable of conducting annual calibration and the issuance of certificate for the said calibration based on the following data:               <ol style="list-style-type: none"> <li>a. Reference standards</li> <li>b. National Institute of Standards and Technology traceability</li> <li>c. Reference values</li> <li>d. Validity period</li> <li>e. Uncertainty of measurement</li> </ol> </li> </ol>		

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<p><b><u>ONE (1) LOT MILK BANK SYSTEM</u></b></p> <p><i>(continuation)</i></p>	<p>5. Supplier must comply with the following conditions:</p> <ul style="list-style-type: none"> <li>a. Must be the exclusive or authorized distributor of the principal company of the equipment and the necessary consumables in the Philippines.</li> <li>b. Submit Certificate of Training of the Company Engineer / Technical Personnel and Product Specialist issued by the Principal or Manufacturer.</li> <li>c. Provide company response within 24 – 48 hours in case of technical problems or equipment breakdown.</li> <li>d. In case of machine downtime, the supplier is given 3 days for remedial action (repair and or replacement of spare parts). On the 4th day, if the unit is not operational, a back-up machine shall be provided within the warranty period. The supplier will be given 14 days to comply in providing back up machine. A penalty will be imposed after the 14<sup>th</sup> day amounting to the average daily income of the machine. This is to cover for the income loss.</li> </ul> <p>6. The Supplier must submit the following:</p> <ul style="list-style-type: none"> <li>a. Three (3) copies of the Operating and Service Manuals in English during the delivery of the equipment.</li> <li>b. Certificate of availability of spare parts for the next ten (10) years.</li> </ul> <p>7. Cost of damages on the existing facility that will be incurred during delivery and installation of all equipment will be shouldered by the supplier.</p>		

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<p><b><u>ONE (1) LOT MILK BANK SYSTEM</u></b></p> <p><i>(continuation)</i></p>	<p>8. The winning bidder shall also provide the following:</p> <p><b>8.1 ONE (1) UNIT OFFICE PRINTER</b></p> <ul style="list-style-type: none"> <li>- with 3<sup>rd</sup> party refillable cartridges/ CiSS</li> <li>- with continuous ink supply system filled with 4 colored inks (black, yellow, cyan, magenta high yield ink cartridges)</li> <li>- Functions: print, scan, copy, WiFi, fax, ADF, borderless print</li> <li>- Wireless LAN &amp; mobile print capabilities</li> <li>- Individual extended CiSS/refillable cartridges</li> <li>- Scan, copy &amp; Fax multiple pages with automatic document feeder</li> <li>- Print speed: up to 27 ppm (mono) &amp; 10 ppm (color)- fast mode/ 11 ppm (mono) &amp; 6 ppm (color)/laser comparable</li> <li>- Maximum paper capacity: approx. 100 sheets – 80 gsm plain paper</li> <li>- Operating system compatibility: Windows 10, Windows 8/8.1, Widows 7, Windows Vista, Windows XP, Windows Server 2016, Windows Server 2012 R2 (64-bit), Linux, MacOS X 10.6 – 10. 13, mobile: iOs, android, Windows Phase</li> </ul>		

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<p><b><u>ONE (1) LOT MILK BANK SYSTEM</u></b></p> <p><i>(continuation)</i></p>	<p><b>8.2 EIGHT (8) UNITS REFRIGERATOR THERMOMETER</b></p> <ul style="list-style-type: none"> <li>- Constructed with a durable stainless-steel casing for added strength and corrosion resistance</li> <li>- Can hang from a shelf or stand on its own</li> <li>- Size: about 72 x 62 x 42 mm</li> <li>- Dial diameter: about 42 mm</li> <li>- Celsius and Fahrenheit display, Celsius (-20 to 20) and Fahrenheit (-20 to 80)</li> <li>- Reaction time: 5 seconds</li> <li>- Dial surface is made of explosion – proof glass, can stand high temperature</li> </ul> <p><b>8.3 ONE UNIT (1) OFFICE CHAIR WITH ARM REST</b></p> <ul style="list-style-type: none"> <li>- High back</li> <li>- 360 degree- swivel function</li> <li>- Pneumatic gas lift seat</li> <li>- With height adjustment</li> <li>- Nylon base</li> <li>- Materials: Oxford fabric, PVS, alloy metal</li> </ul> <p><b>8.4 ONE UNIT (1) OFFICE TABLE</b></p> <ul style="list-style-type: none"> <li>- P span style font – size: 14.0px</li> <li>- Strong quality</li> <li>- With assembly manual</li> </ul>		

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