



**SUPPLEMENTAL/ BID BULLETIN NO. 1**

**IB2024 – 054E**

**PROCUREMENT OF ONE UNIT STATIONARY DIGITAL X-RAY MACHINE**

Supplemental/Bid Bulletin No. 1 is being issued to revise provisions/specifications in the Bidding Documents for a forecited project:

1. Query during Pre-bidding Conference:		
Technical Specifications	Query	Response of the End User Unit
Table top height: 700 - 730mm • Table Type: 6-way Floating Table	Table top height: at least 700 - 730mm Table Type: 4-way Floating Table	Table top height: at least 700 - 730mm Table Type: 4-way Floating Table
• Equipped with the following patient position immobilizing devices: - Footrest - Shoulder rest - Armrest - Headrest - Body harness	<del>Equipped with the following patient position immobilizing devices:</del> <del>_____ Foot rest</del> <del>_____ Shoulder rest</del> <del>_____ Arm rest</del> <del>_____ Head rest</del> <del>_____ Body harness</del> REMOVE	<del>Equipped with the following patient position immobilizing devices:</del> <del>_____ Foot rest</del> <del>_____ Shoulder rest</del> <del>_____ Arm rest</del> <del>_____ Head rest</del> <del>_____ Body harness</del> REMOVE- GRANTED
With audio and visual indicators for	With <del>audio and</del> visual indicator	With visual indicator
Detector must be capable of sending images at most 3 to 5 seconds after exposure	Detector must be capable of sending images at most <del>3 to 5</del> 8 seconds after exposure	Detector must be capable of sending images at most 8 seconds after exposure
<b>The end user will not shoulder the civil works expenses for the installation.</b>		

The MMCHD will hold an official activity on July 9, 2024. Suppliers who would want to get the bidding documents are welcome to visit our BAC Secretariat Office until July 8, 2024.

Bidders are advised to use the **following attached forms and submit them together with all required documents for the submission of bids on the 10<sup>th</sup> day of July 2024, 9:00 AM:**

This Supplemental/Bid Bulletin No. 1 shall be integral to the Bidding Documents. All other provisions indicated in the bidding documents not affected by this Supplemental/Bid Bulletin No. 1 shall remain in effect.

For guidance and information of all concerned.

Issued this 2<sup>nd</sup> day of July 2024 in MMCHD

Approved by:

**JEREMIAS FRANCIS Y. CHAN, MD**  
Licensing Officer V / BAC Chairperson

Republic of the Philippines  
Department of Health  
Metro Manila Center for Health Development

TECHNICAL SPECIFICATIONS

Item No. <b>1</b>	<b>STATIONARY DIGITAL X-RAY MACHINE</b>	Qty./Unit	<b>1 Unit</b>
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Name of Manufacturer:	Country of Origin
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Brand:	Model: (if applicable)
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ABC: <b>4,500,000.00</b>	
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PURCHASER'S SPECIFICATION	STATEMENT OF COMPLIANCE
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TECHNICAL SPECIFICATIONS:

**High Tension Generator**

- The generator must be a high-frequency inverter system
- Power output of at least 40 kilowatts (kW)
- Kilovoltage Settings
  - Minimum Setting: 40kV
  - Maximum setting: more than or equal to 125kV
  - At least 40 increments available for voltage control
- Tube current: at least 500 mA
- Dose range: at least 0.5 to 500 mAs
- Exposure time: at least 1 ms to 10 s with at least 20 increments available for exposure time control

**X-ray Tube Assembly**

- Mounting: Floor-mounted
- Tube head angulation: at least +/- 90°
- Tube stand: Counterbalance enables tube arm movement
- Tube arm movement: Lateral, horizontal and vertical
- Locking mechanism: Electromagnet or manual
- Anode: Rotating
- Nominal focal spot size
  - Small focus: less than or equal to 0.8mm
  - Large focus: more than 0.8mm but less than or equal to 1.5mm
- Total filtration: more than or equal to 2.5mm Aluminum (Al) equivalent
- Thermal characteristics:
  - Tube more than or equal to 120kHU
  - Over-temperature protection
- Collimation system:
  - a. Type: Multi-leaf or Rectangular Type
  - b. Manually controlled
  - c. With field lamp and crosshair centering. The lamp must be LED.
  - d. Rotation: minimum of +/- 45°
  - e. With built-in retractable distance measuring device at least 2 meters

(indicator)

**Vertical Image Receptor Stand**

- Bucky Assembly with Grid
  - a. Reciprocating grid movement mechanism and adaptive removable grid
  - b. Grid ratio: 10:1
  - c. Grid frequency: at least 27 lines/cm
  - d. Focal distance: at least 100cm
- Movement: Counterbalance enables easy vertical movement. The wall

### **X-Ray Table**

- Table to support patient weight of up to 250kg.
- *Table top height: at least 700 - 730mm*
  - *Table Type: 4-way Floating Table*
- Movable bucky assembly with grid
  - Reciprocating grid movement
  - Grid ratio: 10:1
  - Grid frequency: at least 27 lines/cm
  - Focal distance: at least 100 cm

### **Control Unit**

- Microprocessor controlled with control system integrated
- Password-protected operation of the equipment
- Technique Selector and Display Indicators for:
  - Anatomically programmed radiography (APR)
  - Kilovoltage (kV)
  - Milliamperage (mA)
  - Time (sec. or msec. and/ or pulse) or milliamperere seconds (mAs)
- Remote control connected by a retractable cable of at least 4m long or wirelessly
- Radiation Exposure Hand Switch: 2-Phase (ready and expose) and must be dead-man type
- *With visual indicators for:*
  - Ready and X-ray exposure Ready and X-ray exposure
  - Overload
  - Overheat warning or heat indicator for x-ray tube

### **Flat Panel Detector**

- Detector Material: Cesium Iodide Scintillator coupled thin film transistor made of Amorphous Silicon or other high detective efficiency material
- Detector Size: Imaging area adjustable and capable of acquiring 14 x 17 inch (35 x 43 cm)
- Detector Matrix Size: At least 4 Megapixels
- Image Resolution: At least 2.5-line pairs per millimeter (lp/mm)
- Grayscale level of 12 bits/ pixel or greater
- Geometrical fill factor not less than 65%
- Peak Detective Quantum (DQE) not less than 65% at 0.05 lp/mm
- Spatial resolution greater than or equal to 3.3 pairs of lines per millimeter (lp/mm)
- Weight-bearing capacity of at least 100 kg
- Protection grade equivalent to IPX3 or better according to standard IEC 60529
- Automatic detection of the detector
- *Detector must be capable of sending images at most 8 seconds after exposure*

### **Image Acquisition**

- Touchscreen image display monitor: at least 5-inch TFT or LCD, at least 3-megapixel resolution, anti-reflective screen with contrast and brightness adjustments and must be capable of color and grayscale display of at least 10 bits
- Imaging software capabilities
  - Software for patient ID entry, viewing, processing of images, storage, printing, and documentation
  - Display of exposure indicators
  - Display of patient data and actual exposure technique factors used
  - Automatic recognition of detectors
  - Anatomical programs included
  - Allows the pre-visualization of the image in less than 5-

- Image analysis tools (Distance Measurement, ROI, Exposure Index (DDI), Mean Pixel value, PVSD measurement, contrast adjustment, annotations, rotation, zoom, crop, grayscale inversion)
- Image processing functionality (window/ level adjustment, Reverse Contrast mapping, Edge Enhancement, Dynamic Range Control)
- Image reject folder
- With the respective keys and software installer on CD/DVD/USB.
- Export image files or explorations in JPG, TIF, and BMP formats.
- Interface capability: compliant with DICOM 3 or the latest version and must be capable of online (Wi-Fi with PACS) or offline (computed radiography with workstation or film and darkroom)
- Internal database storage of at least 2,000 images

#### **Connectivity**

- At least one (1) USB outlet for image storage on external media
- Ethernet connection RJ45 or similar outlet for image transmission
- WiFi IEEE 802.11 connectivity
- DICOM standard connectivity, compatible with radiological image viewing, post-processing, storage, and printing software  
(Functions: Storage, storage commitment, send/ receive, print, modality worklist management, modality performed procedure step and verification)
- The equipment will have to be connected by the supplier to the hospital PACS (if existent) during the installation phase
- Power Supply: 220V/ 60Hz Mains supply

#### **Accessories**

- Radiation Protection Devices
  - One lead or lead-free protective apron of at least 0.5 to 0.7mm of Lead (Pb) equivalence
  - One lead or lead-free protective thyroid shield of at least 0.5 to 0.7mm of Lead (Pb) equivalence
  - One pair of lead or lead-free protective goggles with front and side protection of at least 0.5mm to 0.7mm Lead (Pb) equivalence
  - One pair of lead or lead-free protective gloves of at least 0.5 to 0.7mm Lead (Pb) equivalence
  - One set lead or lead-free protective gonadal shields of at least 0.5mm Lead (Pb) equivalence
    - i. Contact shield for male adult, female adult, infant male, infant female
    - i. Upright gonadal shield for chest x-ray examinations
- One piece measuring caliper, sliding double-sided, scaled in cm with blunt edges and parallel arm
- Two (2) USB memory sticks with a capacity of 32 GB each to store radiographic images
- All cables, accessories, interconnection devices that allow the assembly of the system, and that allow the system to function and correctly and safely with all the required functions.

#### **Documentary Requirements**

1. Product brochure(s) or technical data sheet(s) showing the technical specifications of the digital x-ray machine, calibration condition of digital image detector, and accessories in English Language.
2. Valid and Current Certificate of Compliance with the latest version of ISO 13485: Quality Management System - Requirements for regulatory purposes in the name of the manufacturer of the digital x-ray machine. The certificate must be issued by an independent Certifying Body/Agency.
3. Valid and current Certificate of Compliance and/or Test Report(s) on the following Standards for the brand and model of the digital x-ray machine being offered. The Certificates and/or Test Reports must be

a. IEC 60601-1: Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance.

b. IEC 60601-1-3: Medical Electrical Equipment - Part 1-3: General Requirements for basic safety and essential performance - Collateral Standard: radiation protection in diagnostic X-ray equipment.

***-The end user will not shoulder the civil works expenses for the installation.***

4. Valid Marketing Authorization, Registration Approval, or Free Sale Certificate for the digital x-ray machine issued by the Health Authority in the country of origin.

5. Valid Certificate of Distributorship (as First Tier Distributorship) issued by the Manufacturer of the digital x-ray machine authorizing the bidder to sell/distribute the offered equipment.

6. Proof (such as sales invoice) that the Brand of the digital x-ray machine has been sold to other health facilities in the Philippines.

7. Notarized Certificate from the manufacturer:

a. That the brand of the digital x-ray machine has been in the local and/or international market for at least ten (10) years.

b. That the digital x-ray machine and accessories are brand new, unused, not discontinued models, and were not subjected to any product recall.

8. Bidder's valid and current License to Operate (LTO) as a medical device distributor issued by the Philippine Food and Drug Administration.

**Requirements if awarded the Contract**

**1. Completion Period:** The delivery, testing, and commissioning, and end-user and maintenance staff training must be completed within 90 calendar days upon receipt of the Notice to Proceed.

**2. Testing:** The digital x-ray machine and accessories must be functioning with no physical damage and/or defect. Performance Testing on the X-ray machine must be conducted by the Food and Drug Administration (FDA), Common Services Laboratory - Physics Laboratory Support Division or its authorized representative. The bidder shall be the one to apply for the Performance Testing in FDA. Application fees and other expenses for the conduct of Performance Testing shall be done by the bidder.

**3. Training:** The supplier must provide training on the proper use and maintenance of the equipment to the end-users and to the hospital maintenance staff.

**4. Warranty:**

Certificate of warranty for three (3) years on parts and on services. The supplier shall either repair or replace any item or part in the equipment that is found to be defective in material or in workmanship under normal use. The warranty period shall commence from the date of acceptance by the end-user after testing and commissioning. The Warranty Certificate shall include the following statements:

a. The bidder shall conduct preventive maintenance on the equipment every six months or according to the manufacturer's recommendations on the schedule of preventive maintenance.

b. The bidder shall conduct the necessary corrective maintenance within five (5) calendar days upon notification of equipment breakdown from the end-user.

c. The bidder shall have the responsibilities and accountabilities that upon evaluation of equipment defects/faults, the equipment...

condition thereafter. d. The number of days where the x-ray machine and/or accessories are unusable due to equipment defects/faults, shall be added to the warranty period. 5. Notarized undertaking that the supplier shall conduct the necessary corrective maintenance within five (5) calendar days upon notification of equipment breakdown from the end-user. The undertaking shall include a statement that the number of days where the equipment is unusable due to defective material or workmanship, shall be added to the warranty period. 6. Manuals: The supplier must provide the end-user two (2) hard and one (1) copies of the following: a. Service Manual in English Language b. Operations Manual in English Language 7. With "DOH-MMCHD HFEP" (Government Property not for sale) sticker in each unit X-X Source of Fund: SAA 2023-02-000687 (HFEP 2023 ConAp)	
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Republic of the Philippines Department of Health Metro Manila Center for Health Development			
<b>TECHNICAL SPECIFICATIONS</b>			
<b>Item No. 1</b>	<b>MAJOR SURGERY SET WITH STERILIZING TRAY</b>	Qty./Unit	<b>2 UNITS</b>
Name of Manufacturer:			Country of Origin
Brand:			Model: (if applicable)
ABC: <b>150,000.00</b>			
PURCHASER'S SPECIFICATION			STATEMENT OF COMPLIANCE
Technical Specifications: - 6 pcs. Sponge Holding Forceps 9 1/2" straight - 12 pcs. Backhaus Towel Clamp 5 1/4" - 1 pc. Knife Handle #3 - 1 pc. Knife Handle #4 - 1 pc. Knife Handle #7 - 1 pc. Mayo Dissecting Scissor 6 3/4" straight			

- 1 pc. Metzenbaum Scissor 7" curved
- 1 pc. Operating Scissor S/B 5 1/2" straight
- 1 pc. Suture Wire Scissor Angled to the side (One Serrated Blade)
- 2 pcs. Thumb Forcep 5 1/2" Serrated
- 1 pc. Thumb Forcep 8" Serrated
- 2 pcs. Tissue Forcep (1x2T) 5 1/2"
- 1 pc. Tissue Forcep (1x2T) 8"
- 6 pcs. Allis Tissue Forcep (5x6T) 6"
- 2 pcs. Babcock Tissue Forcep 6 1/4"
- 12 pcs. Halsted Mosquito Forcep 5" straight
- 12 pcs. Halsted Mosquito Forcep 5" curved
- 6 pcs. Crile Forcep 6 1/4" straight
- 6 pcs. Crile Forcep 6 1/4" curved
- 12 pcs. Rochester-Pean Forcep 6 1/4" curved
- 6 pcs. Ochsner Forcep 6 1/4" straight
- 2 pcs. Kelly Retractor Hollow Grip Handle (small)
- 2 pcs. Kelly Retractor Hollow Grip Handle (medium)
- 2 pcs. Kelly Retractor Hollow Grip Handle (large)
- 2 pcs. Deaver Retractor 2x12"
- 2 pcs. Volkman Retractor 4 prong 9" Blunt
- 2 pcs. Volkman Retractor 6 prong 9" Blunt
- 2 pcs. Cushing Vein Retractor (10mm) 8"
- 1 set US Army Retractor (set of 2 pcs.)
- 1 pc. Malleable Retractable (Ribbon) 1x13"
- 2 pcs. Malleable Retractable (Ribbon) 1 1/2x13"
- 1 pc. Balfour Abdominal Retractable 8" spread
- 1 pc. Groove Director and Tongue tie 5"
- 1 pc. Probe with Eye 5"
- 1 pc. Deschamps Ligature Carrier Blunt Left
- 1 pc. Deschamps Ligature Carrier Blunt Right
- 1 pc. Poole Suction Tube straight
- 2 pcs. Mayo-Hegar Needle Holder 6"
- 2 pcs. Mayo-Hegar Needle Holder 7"
- 1 pc. Sterilizing tray (Perforated)
- Laser mark the word "DOH-MMCHD" in each instrument.

**Requirements** if awarded the Contract

1. **Completion Period:** The delivery, installation, testing and commissioning of the equipment and its accessories, including the training of end-users and maintenance staff must be completed within **30** calendar days upon receipt of Notice to Proceed.

2. **Testing:** Prior to acceptance, the end user shall conduct a physical inspection and functionality test. The equipment must be functioning and must have no physical damage and defect.

3. **Warranty:** Warranty certificate for one (1) year on workmanship. The supplier shall replace any item or part in the equipment that is found to be defective in material or in workmanship under normal use. The warranty period shall commence from the date of acceptance by the end-user after testing and commissioning.

4. **Notarized** undertaking that the supplier shall conduct the necessary corrective maintenance within five (5) calendar days upon notification of the equipment breakdown from the end-user. The undertaking shall include a statement that the number of days where the equipment is unusable due to defect...

<p>warranty period.</p> <p>5. <b>Manuals:</b> The supplier must provide the end-user one (1) hard and one (1) soft copy of the following:</p> <p>a) Service manual in English language</p> <p>b) Operation manual in English language</p> <p>6. With "<b>DOH-MMCHD HFEP</b>" (Government Property not for sale) sticker in each unit.</p> <p>X-X</p> <p>Source of Fund: SAA 2024-02-001002 (HFEP 2024)</p> <p>Recipient: Health Facilities in Marikina City</p>	
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Republic of the Philippines  
 Department of Health  
 Metro Manila Center for Health Development

**TECHNICAL SPECIFICATIONS**

Item No. 2	<b>DENTAL INSTRUMENT SET</b>	Qty./Unit	<b>30 UNITS</b>
Name of Manufacturer:		Country of Origin	
Brand:		Model: (if applicable)	
ABC: <b>1,500,000.00</b>			

**PURCHASER'S SPECIFICATION**

**STATEMENT OF COMPLIANCE**

**'TECHNICAL SPECIFICATIONS:**

Each instrument must be packed individually and labeled by the manufacturer

One Set must contain ALL of the following instruments:

**DENTAL SURGERY SET**

- Extraction Forceps #16, with cross serration for better grip, ergonomic for better comfort designed instrument
- Extraction Forceps #17 with cross serration
- Extraction Forceps #18L with cross serration
- Extraction Forceps #18R with cross serration
- Extraction Forceps #44 with cross serration
- Extraction Forceps #69 with cross serration
- Extraction Forceps #150 with cross serration
- Extraction Forceps #151 with cross serration
- Aspirating Syringe, stainless steel, with locking mechanism, CW Type
- Minnesota Tongue and cheek Retractor stainless steel
- Bone File, stainless steel
- Bone Curette, non-magnetic hollow handle (reunder or oval, 3")
- Gum Separator, non-magnetic hollow handle, KPT2
- Seldin, Stainless steel
- Root Tip Pick, straight, non-magnetic hollow handle
- Root Tip Pick, left, non-magnetic hollow handle
- Root Tip Pick, right, non-magnetic hollow handle



- Elevator #304, non-magnetic hollow handle
  - Surgical Mallet, stainless steel
  - Iris, straight, stainless steel
  - Iris, curved, stainless steel
  - Adson Tissue Forceps, stainless steel
  - Molt #9, stainless steel
  - Hemostat Mosquito Forceps, stainless steel straight
  - Periosteal Elevator, stainless steel (double edge)
  - Bone Rongeur, stainless steel, side cutting
  - Allis Tissue, stainless steel
  - Needle Holder, stainless steel
  - Apical elevator, right, non-magnetic hollow handle
  - Apical elevator, left, non-magnetic hollow handle
  - Cryer, east, non-magnetic hollow handle
  - Cryer, west, non-magnetic hollow handle
  - Pedo Forceps, 150SK, stainless steel
  - Pedo Forceps, 151SK, stainless steel
  - Pedo Forceps, 17S, stainless steel
  - Pedo Forceps, 16S, stainless steel
  - Pedo Forceps, 18R, stainless steel
  - Pedo Forceps, 18L, stainless steel
  - Instrument Cassette for sterilization, large, with locking mechanism
  - Mouth Mirror, stainless steel with handle #5 stainless steel
  - Cotton Plier with Lock, stainless steel
  - Explorer, stainless steel, hollow handle
  - Spoon excavator, stainless steel
- DENTAL PROPHYLAXIS INSTRUMENT SET**
- Universal Scaler, non-magnetic hollow handle
  - Perio Curette, non-magnetic hollow handle
  - Periodontal Probe
  - "- Gracey Curette, set of 7, different tips, non-magnetic hollow handle

**RESTORATIVE INSTRUMENTS**

- Woodson, non-magnetic hollow handle
- Ash, stainless steel
- Cement Spatula, stainless steel
- Articulating paper forceps, straight, stainless steel
- Ball Burnisher, stainless steel
- Anatomic Burnisher, stainless steel
- Posterior Occlusal Contouring Instrument, stainless steel
- Anterior Composite Filling Instrument, stainless steel
- Matrix Band Holder, stainless steel
- Composite Burnisher, stainless steel
- Plugger, stainless steel
- Mouth Mirror with Handle #5, stainless steel
- Cotton Plier with Lock, stainless steel
- Explorer, stainless steel
- Spoon Excavator, stainless steel
- Plastic Filling Instrument, stainless steel
- Set of Burs, Round-10 Diamond
- Laser mark the word "DOH-MMCHD" in each instrument.

**Requirements if awarded the Contract**

1. **Completion Period:** The delivery, installation, testing and commissioning of the equipment and its accessories, including the training of end-users and maintenance staff must be completed within 30 calendar days upon receipt of Notice to Proceed.

2. **Testing:** Prior to acceptance, the end user shall conduct a physical



<ul style="list-style-type: none"> <li>● 1 pc. McLean-Tucker-Luikart Obstetrical Forceps 15 1/2"</li> <li>● 1 pc. Kielland Obstetrical Forceps 17 1/2"</li> <li>● 1 pc. Piper Obstetrical Forceps 17 1/2"</li> <li>● 1 pc. Bill Traction Handle (For use with any Obstetrical Forceps)</li> <li>● 1 pc. Martin Pelvimeter (Graduated in cm and inches)</li> <li>● 1 pc. Mayo-Hegar Needle Holder 6"</li> <li>● 1 pc. Mayo- Hegar Needle Holder 7"</li> <li>● 1 pc. Sterilizing tray (Perforated)</li> <li>● 1 pc. Kidney Basin 10"</li> <li>● 1 pc. Large or Extra-Large sized tray with cover that can fit all instruments to serve as its container</li> <li>● Laser mark the word "DOH-MMCHD" in each instrument.</li> </ul>	
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<p><b>Requirements if awarded the Contract</b></p> <ol style="list-style-type: none"> <li>1. <b>Completion Period:</b> The delivery, installation, testing and commissioning of the equipment and its accessories, including the training of end-users and maintenance staff must be completed within <b>30</b> calendar days upon receipt of Notice to Proceed.</li> <li>2. <b>Prior to acceptance,</b> the end user shall conduct a physical inspection. The equipment must have no physical damage and defect.</li> <li>3. <b>Warranty:</b> Warranty certificate for one (1) year on workmanship. Supplier shall replace any item that is found to be defective in material or in workmanship under normal use. The warranty period shall commence from the date of acceptance by the end-user after testing and commissioning.</li> <li>4. <b>Manuals:</b> The supplier must provide the end-user one (1) hard and one (1) soft copy of the following: <ul style="list-style-type: none"> <li>a) Cleaning/Sterilization manual in English language</li> </ul> </li> <li>5. Laser mark the word "DOH-MMCHD" in each instrument</li> <li>5. With "DOH-MMCHD HFEP" (<b>Government Property not for sale</b>) sticker in each container/tray.</li> </ol> <p>x-x</p> <p>Source of Fund: SAA 2024-02-001002 (HFEP 2024)</p> <p>Recipient: Health Facilities in Marikina City</p>	
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