

Proj. Ref. No.: **PUR22-03-0257**
End-User: **DEPARTMENT OF NEUROSCIENCES**
Project: **SUPPLY, DELIVERY, INSTALLATION AND TESTING OF ONE (1) LOT OF INTRAOPERATIVE 2D & 3D IMAGING SYSTEM WITH NAVIGATION SYSTEM, SPINE BED EXTENSION AND PRE-CALIBRATED NAVIGATED DRILL**
Contract: **Single Bid**

Opening of Bids: **17 June, 2022**
ABC: PHP **33,000,000.00**

| Item No. | Qty. | UOM | Item Description | Unit Cost | Quotations (all taxes included) | |
|----------|------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------|----------|
| | | | | | in figures | in words |
| 1 | 1 | Lot | INTRAOPERATIVE 2D & 3D IMAGING SYSTEM WITH NAVIGATION SYSTEM, SPINE BED EXTENSION AND PRE-CALIBRATED NAVIGATED DRILL | 33,000,000.00 | | |
| | | | | | | |
| | | | Components: A. 2D 3D Imaging System B. Navigation System C. Spine Bed Extension D. Pre-calibrated Navigated Drill | | | |
| | | | Specifications: | | | |
| | | | A. <u>Intra-operative 2D & 3D Imaging System</u> 1. General Features: The system offered shall be able to provide 3D imaging for the below anatomy: a. Head/Cranial b. Spine [Cervical, Thoracic, Lumbar] c. Shoulder d. Upper Extremities e. Lower Extremities f. Pelvis 2. X-Ray Generator: a. X-ray Generator Power: at least 32 kW or higher b. kV range: At least 150kV c. Exposure Time Per Pulse: 10msec 3. X-Ray Tube: a. Type: Rotating anode b. Focal spot (Dual focus): For small focal spot: | | | |

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Chairperson

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| | | | <ul style="list-style-type: none"> • Width = 0.60mm to 0.90 mm • Length = 0.90 mm to 1.30 mm <p>For large focal spot:</p> <ul style="list-style-type: none"> • Width = 1.20 mm to 1.70 mm • Length = 1.7 mm to 2.4 mm <p>c. Tube Rating: 150 kV</p> <p>d. Leakage Technique Factors: 150 kV, 3.3mA</p> <p>e. Anode heat storage capacity: At least 300 kHU (222 kJ)</p> <p>f. Housing heat storage capacity: At least 1,250 kHU (927 kJ)</p> <p>4. Collimation</p> <p>a. Electronically controlled by user</p> <p>b. 3D collimation should be available</p> <p>c. Should have dynamically adjustable filter set</p> <p>5. X-ray Detector:</p> <p>a. 2.0K x 1.5K, pixel pitch of 0.194 mm amorphous silicon</p> <p>6. Robotic Motion Controls (Speed):</p> <p>a. Linear gantry motion: X and Y-axis: 5 inches/second, Z-axis: 2.5 inches/second</p> <p>b. Rotational Wag: 4° per second</p> <p>c. Rotational Tilt: 7.5° per second</p> <p>d. Gantry Door (open/close): 8°per second</p> <p>e. Gantry rotor (internal): 60° per second (max.)</p> <p>7. Robotic Motion Control (Range)</p> | | | |
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| | | | <ul style="list-style-type: none"> a. Linear gantry, Vertical: ± 9 inches (± 0.125 inches), ± 22.9 (± 0.32 cm) <ul style="list-style-type: none"> • 17.25 inches total *Y-axis gas springs account for decrease of 0.75 inches b. Linear gantry, transverse: ± 9 inches, ± 22.9 cm <ul style="list-style-type: none"> • 18 inches total (45.8 cm) c. Linear gantry, Longitudinal: ± 7 inches (± 0.25 in), ± 17.8 (± 0.64 cm) <ul style="list-style-type: none"> • 14 inches total d. Rotational Wag: e. Rotational Iso-Wag: $\pm 12^\circ$ (nominal) f. Rotational Tilt: $\pm 45^\circ$ 8. Power assisted transport: <ul style="list-style-type: none"> a. 1.5 max MPH power drive system b. Independent rear wheel drive c. Handle-controlled 9. Imaging modalities: <ul style="list-style-type: none"> a. Single Plane 2D (Pulsed fluoroscopy at 30 frames/second) b. Multi Plane 2D (Up to four 2D images, from pre-set positions) c. Standard 3D Volumetric d. High Definition 3D Volumetric e. Low Dose 3D Volumetric f. Enhanced Cranial 3D Volumetric g. Stereotaxy 3D Volumetric 10. 3D Imaging volume: <ul style="list-style-type: none"> a. Cylindrical Volume | | | |
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| | | | <p>20 cm FOV: 21.25cm diameter x 512 x 192 40cm FOV (mm): 512 x 512 x192</p> <p>11. Power Requirements: VAC: 100 to 240 VA; Frequency: 50/60 Hz; 1440 VA</p> <p>12. Multiple Field of View: The system should offer MFOV allowing the surgeon the option to choose either 15cm x 20cm or 15cm x 40cm axial imaging diameter. Thus enabling the ability to image the whole localizer during stereotactic frame based procedures or the entire pelvis for orthopedic procedures.</p> <p>13. Field of View Preview Feature: The system must have the Simplified workflow to position the gantry so that the anatomy of interest will be in the image center while not taking more than two 2D images (1 AP and 1 Lateral image)</p> <p>14. Pediatric Indication: The imaging equipment must be indicated for pediatric patients weighing 60 lbs or greater and having an abdominal thickness greater than 16cm</p> <p>15. Breakable Gantry: the system must have a breakable gantry feature to enable Lateral access of the Patient during a live surgery</p> <p>16. Automatic Registration: The imaging system must have the capability of automatic registration with Navigation System</p> | | | |
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| | | | <p>17. Internal Movement of Source and Detector: The imaging system's source and detectors movement must be internal (inside gantry), therefore ensuring a safe environment for imaging and ensuring there is no collision.</p> <p>B. <u>Navigation System/IGS</u></p> <p>1. Computer System</p> <ol style="list-style-type: none"> Processor: Intel Xeon® CPU E3-1275 v3 @ 3.50 GHz or better RAM: At least 16 GB Graphics: GeForce GTX 970/Pcie/SSE2 or equivalent OS type: 64-bit Hard disk: At least 1 TB SSD (internal storage) CDRW/DVD reader: DVD/CDRW Drive for CD Re-write for Export/Import Video in/out: The system shall be capable of supporting PAL and NTSC video input via DVI, S-Video and composite connectors. The system shall be capable of supporting video output via HDMI <p>2. Camera Cart and Main Cart</p> <ol style="list-style-type: none"> Monitor weight: Not more than 7.5kg Monitor Display Resolution: At least 2560 x 1440 pixels, 60Hz Camera Cart Footprint: Not more than 68 cm x 69 cm Main Cart Footprint: Not more than 69 cm x 52 cm Double Cart Configuration with two separate but | | | |
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| | | | <p>complementary carts; two high-definition, multi-touch, state-of-the-art digital display</p> <p>f. The carts may be docked together as a single unit, or separated for positional flexibility and convenience during surgery</p> <p>g. Display Monitors: With Two (2) high-definition, multi-touch, State-of-the-art digital image display monitors</p> <p>h. Keyboard, Mouse and Storage Drawer: Wired Mouse is placed on the system cart deck for easy access and give the system a smaller footprint. Keyboard is built on the system cart and stored in a drawer when not in use. Storage Drawer and storage bin is built onto the system cart for neat storage of system accessories.</p> <p>i. Position Sensor Unit: Optical Tracking (Camera has two lenses to geometrically triangulate the spatial coordinates of each optical marker the instruments of reference frame and probes)</p> <p>3. Cranial Application</p> <p>a. The Cranial Application consists of computer software and specialized hardware that works in conjunction with a Navigation system to help guide surgeons during cranial surgical procedures.</p> | | | |
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| | | | <ul style="list-style-type: none"> b. Automatic merging of different image sets from different image modalities, CT, MRI, MRA, PET, SPECT and MRI. c. The software merge axial to coronal and/or sagittal image sets of different image modalities (CT, MRI, etc.) d. Two or more image sets can be merged limited by the computer memory e. Auto construction of patient 3D model f. Manipulation and editing of the 3D image is available g. Predicted accuracy and spheres of accuracy when using landmark registration. h. Camera aiming indicator: The indicator provides distance and field-of-view information to assist the user to position the camera at the best position. i. With Passive Cranial Instruments (1 set) j. With Passive sphere with as nap on method for fast fixation (48 pcs) k. With Passive biopsy needle kit (1pc) <p>4. Spine Application</p> <ul style="list-style-type: none"> a. The computer software and specialized hardware that works in conjunction with an image guidance system to help guide surgeons during spinal surgical procedures | | | |
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| | | | <ul style="list-style-type: none"> b. Trajectory planning: Trajectory 1 and trajectory 2 views show image planes that contain the instrument trajectory c. Tip extension/projection: The projection shows where the instrument will go if you advance it along its current trajectory. d. Customizing procedure instruments and image view to individual doctors. e. Ability to continuously navigate while implanting same brand screws without the use of adapters f. Ability on navigate while implanting any brand of screws by using adapters g. Auto construction of patient 3D model h. Manipulation and editing of the 3D image is available. i. Each surgeon name is displayed and selected on tab icons for easy reference j. With Spine Instrument (1 set) <p>C. Spine Bed Extension Compatible with Existing Operating Room Bed</p> <ul style="list-style-type: none"> a. Flex frame – One (1) pc b. Prone Arm Support – One (1) pc c. Supine Tops, set of 4 d. Supine top section 3" (7.5 cm) pad – One (1) pc e. Spinal system – standard wing set system – One (1) pc f. Flex frame OR table clamp set, Euro rail – One (1) pair | | | |
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| | | | <ul style="list-style-type: none"> g. Flex frame arm board rail, Euro rail h. Easy lock socket, Euro rail i. C-flex polar head positioner device only j. C-flex clean cape, box of 10 k. One (1) pc Starburst adaptor for standard May field of Doro l. One (1) pc Prone mask head module m. One (1) pc Flat plate head module n. Comfort mask disposables, case of 5 sets (1 Case) <p>D. Pre-calibrated Navigated Powered Drill for Navigated drilling.</p> <ul style="list-style-type: none"> a. Seamless integration of powered electric drill with the navigation system without the need to use an adapter b. With Autoclavable instrument case (1pc) c. With Craniotome attachment (2pcs) d. With Preforator attachment (1pc) e. With straight attachment: 10cm (2pcs) f. With Angled attachment: 14cm (2pcs) g. With Craniotome Blade (20pcs) h. With 10cm Match Head 3.0 mm (20 pcs) i. With 10cm Ball Diamond 2.0mm (20pcs) j. With 10cm Ball Diamond 4.0 mm (20pcs) k. With 14cm Match Head 3.0 mm (20pcs) l. With 14cm Ball Diamond 2.0 mm (20pcs) | | | |
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| | | | m. With 14cm Ball Diamond 4.0 mm (20pcs) | | | |
| Total ABC: | | | | Php33,000,000.00 | | |

TERMS AND CONDITIONS:

A. Requirement/s if declared as Lowest/Single Calculated Bids:

1. Presentation of Technical data sheet and/or presentation of a prototype equipment within seven (7) calendar days after receipt of Notice of Lowest / Single Calculated Bid. Presentation may be an online demonstration.

B. Requirement/s if awarded the contract:

1. Delivery Period: Within One Hundred Twenty (120) Calendar days after receipt of Notice to Proceed (NTP).
2. Delivery Place: Equipment Section, Property & Supply Division, Philippine General Hospital, Taft Avenue, Manila.
3. Warranty Period / Coverage of Warranty: Two (2) years on parts and Two (2) years on service. Free semi-annual preventive maintenance during the warranty period. Warranty Period shall commence from the date of acceptance by the end user after installation, testing and commissioning.
4. The model of the 2D & 3D Intra-op Imaging System must be the latest stable system.
5. Signed service level agreement with the Philippine General Hospital.
6. The supplier must provide original hard copy and/or soft copy of operators and service manuals in English Language.
7. Training for at least 20 end users at the expense of the winning bidder. Orientation for Radiation Technologists and troubleshooting training for at least two (2) biomedical engineers.
8. Quotation of the Annual Preventive Maintenance Cost after the warranty period expires.
9. Acceptance Procedures and Parameters: Successful use of the equipment with the integrated 3D Navigational System for at least one week without any technical problems.

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C. Requirements required of the bidder to be submitted during Post-Qualification:

1. Brochures/Technical data Sheet.
2. SEC registration to prove that the supplier is in the business of importing and supplying medical equipment.
3. Certified true copy of the Certificate of Distributorship for the last two (2) years. The principal and the local distributor must have been in business partnership for at least two (2) years.
4. Certification that the Brand has been in the local/international market for at least five (5) years.
5. Certification by the supplier that at least one service engineer is available locally to provide quick on-site support.
6. Certification that components of the system are of the same brand except when otherwise stated as "third Party" in the specification.
7. List of local/international Service Center/s
8. Certificate of Performance Evaluation from the Single Largest Contract.
9. License to Operate (LTO) from the Philippine FDA.

D. Requirements Required of the Manufacturer to be submitted during Post-Qualification:

1. Certification that the manufacturer has been in the business of manufacturing hospital equipment for spine surgery at least 10 years.
2. A satisfactory certification of 2D & 3D intra-op imaging system from at least one Philippine Tertiary Hospital or from at least one tertiary Hospital from other ASEAN Country must be submitted
3. Certification of compatibility and integration with Brainlab Curve Navigation 17700 must be submitted
4. Guarantee Letter from the manufacturer to ensure availability of supplies, parts and accessories for at least ten (10) years.
5. Certification by the principal that service engineers are factory trained on service and repair.
6. ISO/IEC compliance document of the manufacturer.
7. List of the manufacturer's office in the following territories: Western Europe, US/Canada and Japan.

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