REFERENCE OF TENDER	DESCRIPTION OF TENDER	TIME PERIOD OF TENDER	DEPARTMENT/DIVISION/ UNIT REQUESTING TENDER	FEES	CLOSING DATE NOT LATER THAN 2.00PM	FOCAL PERSON
KK/43/2023/HTD	SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING ONE (1) UNIT OF DENTAL THREE DIMENSIONAL (3D) IMAGING FOR ISTANA NURUL IZZAH CLINIC	-	DEPARTMENT OF HEALTHCARE TECHNOLOGY	\$30.00	7 <sup>™</sup> MARCH 2023	Nuramaliah binti Hj Jamaludin Biomedical Engineer(for Department of Dental Services) Department Of Healthcare Technology Ministry Of Health Negara Brunei Darussalam Contact No. 2380426 EXT 385 e-mail: nuramaliah.jamaludin@moh.gov .bn

# NOMBOR TAWARAN : KK/43/2023/HTD

# KEMENTERIAN KESIHATAN NEGARA BRUNEI DARUSSALAM

# SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING ONE (1) UNIT OF DENTAL THREE DIMENSIONAL (3D) IMAGING FOR ISTANA NURUL IZZAH CLINIC

YURAN TAWARAN : \$30.00

NOMBOR RESIT :

TARIKH TUTUP : HARI SELASA, 7HB MAC 2023

JAM : 2.00 PETANG

KEPADA :

# PENGERUSI LEMBAGA TAWARAN KECIL PETI TAWARAN, TINGKAT BAWAH BANGUNAN KEMENTERIAN KESIHATAN COMMONWEALTH DRIVE BANDAR SERI BEGAWAN BB 3910 NEGARA BRUNEI DARUSSALAM

(CLUSTERING)

#### **SECTION 2**

### SPECIFICATIONS AND REQUIREMENTS

#### TENDER REFERENCE NO: KK/43/2023/HTD

#### INVITATION TO TENDER

#### SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING, ONE (1) UNIT OF DENTAL THREE-DIMENSIONAL (3D) IMAGING FOR ISTANA NURUL IZZAH CLINIC

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SECTION I - USER REQUIREMENT					
DENTAL THREE-DIMENSIONAL (3D) IMAGING					
STANDARD FEATURES	Radiographic maxillofacial imaging solutions for dental.         Capable of:         -       Three-dimensional imaging         -       Panoramic         -       Extraoral bitewing         -       Cephalometric imaging         3D sensor is also fully capable of 2D imaging         Various capture modes to meet all diagnostic requirement         Low dose imaging         Temple support         Chin support         Adjustable height according to the patient's height         Emergency switch; To cut off all power to the equipment in case of emergency         Handle frame for the patient to stabilize their position during imaging         Remote functionality which allows unit to be operated outside of the x-ray room				
Full arch         Region of Interest (ROI):         -       Full arch         -       TMJ         -       Sinusoidal images         -       Endodontic & Single implant         -       Other capabilities (Tenderer to specify)         -       Selectable         -       Full arch – Tenderer to state FOV size         -       TMJ – Tenderer to state FOV size         -       Sinusoidal images – Tenderer to state FOV size         -       Endodontic & Single implant – Tenderer to state FOV size					
		Patient type:	Adult & Paediatric		

Focal spot size:	0.5 mm				
Anode Tube specification:	Tube voltage:         - Min Voltage: not more than 60 kVp         - Max Voltage: not less than 90 kVp         Tube current:         - Min Current: not more than 4 mA         - Max Current: not less than 14 mA				
Scan time:	Tenderer to specify				
Patient position:	- Standing - Wheel-chair accessible				
Model/Type	Enterprise grade				
Processor	7 <sup>th</sup> Generation Intel Core i5 Processor or higher				
RAM	8GB DDR4				
Storage	500GB, SATA2 or 3, 7200 rpm				
Video Graphics	Intel HD Integrated				
Connectivity	<ul> <li>Bluetooth 4.0 or higher</li> <li>Ethernet</li> <li>Wireless-N</li> </ul>				
Ports	<ul> <li>USB 3.0</li> <li>Universal audio jack</li> <li>security lock slot</li> <li>external antenna connector (Optional)</li> <li>DisplayPort</li> <li>HDMI</li> <li>VGA</li> <li>RJ-45</li> <li>1 power connector</li> </ul>				
Weight	Not exceeding 4 kg				
Operating system	Microsoft Windows 10 pro 64 bit				
Security Features	Trusted Platform Module Allows remote support				
Monitor	Tenderer to specify				
	The Equipment Should Come With All Necessary Accessories For It To Be Fully Operational				

#### SECTION I - USER REQUIREMENT

#### **ROOM REQUIREMENT**

	Tenderer shall inspect the site of installation of the proposed system and propose any necessary renovation required for the installation					
	The tenderer shall make good all works disturb to match existing or as directed by Department of Technical Services.					
	The renovation proposed shall include, but not limited to the following: <ul> <li>Shielding</li> <li>Electrical</li> <li>Structural and access requirements</li> </ul>					
	Tenderer shall comply to set quality standards of Maintenance Department. For further information, contact Department of Technical Services					
STANDARD FEATURES	A network installation plan detailing cable runs, cable type, termination, concentrators, hubs, bridges, and all other network devices shall be prepared by the Tenderer and approved by the Project Team / Manager prior to proposed system installation.					
	Tables / cabinets for workstation, chairs etc should be included.					
	UPS and power cables for all computers back-up. Tenderer shall mobilize and demobilize the machineries used at the work site and remove the debris from the site after completion of works.					
	After completion of renovation and installation of the equipment, the Tenderer shall arrange for independent radiation body to perform radiation safety survey. The report of this radiation survey shall be made available before commissioning of the equipment.					

SECTION II - PROCUREMENT REQUIREMENT
BRAND AND MODEL OF EQUIPMENT:
COUNTRY OF ORIGIN:
PRICE (CIF) B\$
WHERE MARKETED:
YEAR MANUFACTURED:
WARRANTY:
DELIVERY TIME:
PRICE VALIDITY:
SECTION III - TECHNICAL REQUIREMENTS
MAINS POR SUPPLY:
BATTERY BACKUP:
INTERNATIONAL SAFETY STANDARD:
TECHNICAL SUPPORT:
DIMENSIONS (mm):
WEIGHT (in Kg):
EQUIPMENT WHOLE LIFE TIME SUPPORT:

BROCHURE	Detailed brochure submitted?			
USER MANUALS	Tenderers must supply during commissioning, three sets of user manuals, one set must be in the form of soft copy. (PDF Format)			
SERVICE MANUALS	Tenderers must supply during commissioning, three sets of service manuals, one set must be in the form of soft copy. (PDF Format).			
SPARE-PARTS AND CONSUMABLES LISTINGS	Tenderers must supply during commissioning, a comprehensive list of equipment spare-parts and consumables in the form of soft copy (e.g.: Microsoft EXCEL). The listing must have the following details; 1) Part Number 2) Part Description			
WARRANTY PLANNED PREVENTIVE MAINTENANCE (PPM)	Tenderers must carry-out a minimum of two times PPM per year during the equipment warranty period, starting from six months after the date of commissioning.			
TECHNICAL TRAINING:	Tenderers to conduct training to Biomedical Engineers and Technicians.			
ON-SITE:	<ul> <li>Training to be conducted locally, tenderers are required to:</li> <li>Provide training materials, test equipment, demonstrate equipment, etc.</li> <li>Provide training to two groups of technical staffs.</li> <li>Provide 2 days (minimum) of training for each group.</li> <li>Training to be conducted at National Dental Centre /MOH</li> </ul>			
AT MANUFACTURER'S PREMISES:	<ul> <li>Training to be conducted at the manufacturer's training premises / facilities. Tenderers are required to: <ul> <li>Provide air tickets, accommodation, transportation, etc. for 2 persons.</li> <li>Provide training for 2 persons.</li> <li>Minimum no of days for training – 3 days.</li> </ul> </li> </ul>			

#### **SECTION 3**

#### **TENDER FORM**

To:

#### TENDER REFERENCE NO: KK/43/2023/HTD

#### INVITATION TO TENDER

#### SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING, ONE (1) UNIT OF DENTAL THREE-DIMENSIONAL (3D) IMAGING FOR ISTANA NURUL IZZAH CLINIC

TENDER OF (name of tenderer)	
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Company/Business Registration No. : \_\_\_\_\_

Tender Closing Date : \_\_\_\_\_

SECTION I - USER REQUIREMENT		YES	NO	PLEASE SPECIFY THE SPECIFICATION/ SCOPE OFFERED FAILURE TO FILL THE OFFER DETAIL SHALL BE IDENTIFIED AS NON-COMPLIANCE TO THE OFFER
DENTAL THREE-DIMENSIONAL (3D) IMAGING				
	Radiographic maxillofacial imaging solutions for dental.			
STANDARD FEATURES	Capable of: - Three-dimensional imaging - Panoramic - Extraoral bitewing - Cephalometric imaging			

SECTION I - USER	REQUIREMENT	YES	NO	PLEASE SPECIFY THE SPECIFICATION/ SCOPE OFFERED FAILURE TO FILL THE OFFER DETAIL SHALL BE IDENTIFIED AS NON-COMPLIANCE TO THE OFFER
	3D sensor is also fully capable of 2D imaging			
	Various capture modes to meet all diagnostic requirement			
	Low dose imaging			
	Temple support			
	Chin support			
	Adjustable height according to the patient's height			
	Emergency switch; To cut off all power to the equipment in case of emergency			
	Handle frame for the patient to stabilize their position during imaging			
	Remote functionality which allows unit to be operated outside of the x-ray room			
Region of Interest (ROI):	<ul> <li>Full arch</li> <li>TMJ</li> <li>Sinusoidal images</li> <li>Endodontic &amp; Single implant</li> <li>Other capabilities (Tenderer to specify)</li> </ul>			
Field of View (FOV)	<ul> <li>Selectable</li> <li>Full arch – Tenderer to state FOV size</li> <li>TMJ – Tenderer to state FOV size</li> <li>Sinusoidal images – Tenderer to state FOV size</li> <li>Endodontic &amp; Single implant – Tenderer to state FOV size</li> </ul>			
Patient type:	Adult & Paediatric			
Focal spot size:	0.5 mm			

SECTION I - USER	REQUIREMENT	YES	NO	PLEASE SPECIFY THE SPECIFICATION/ SCOPE OFFERED FAILURE TO FILL THE OFFER DETAIL SHALL BE IDENTIFIED AS NON-COMPLIANCE TO THE OFFER
Anode Tube specification:	Tube voltage:-Min Voltage: not more than 60 kVp-Max Voltage: not less than 90 kVpTube current:Min Current : not more than 4 mA-Max Current : not less than 14 mA			
Scan time:	Tenderer to specify			
Patient position:	- Standing - Wheel-chair accessible			
PC SYSTEM REQU	JIREMENT			
Model/Type	Enterprise grade			
Processor	7 <sup>th</sup> Generation Intel Core i5 Processor or higher			
RAM	8GB DDR4			
Storage	500GB, SATA2 or 3, 7200 rpm			
Video Graphics	Intel HD Integrated			
Connectivity	<ul> <li>Bluetooth 4.0 or higher</li> <li>Ethernet</li> <li>Wireless-N</li> </ul>			
Ports	<ul> <li>USB 3.0</li> <li>Universal audio jack</li> <li>security lock slot</li> <li>external antenna connector (Optional)</li> <li>DisplayPort</li> <li>HDMI</li> <li>VGA</li> <li>RJ-45</li> <li>1 power connector</li> </ul>			

SECTION I - USER	REQUIREMENT	YES	NO	PLEASE SPECIFY THE SPECIFICATION/ SCOPE OFFERED FAILURE TO FILL THE OFFER DETAIL SHALL BE IDENTIFIED AS NON-COMPLIANCE TO THE OFFER
Weight	Not exceeding 4 kg			
Operating system	Microsoft Windows 10 pro 64 bit			
Security Features	Trusted Platform Module Allows remote support			
Monitor	Tenderer to specify			
	The Equipment Should Come With All Necessary Accessories For It To Be Fully Operational			
	ENT			
STANDARD FEATURES	Tenderer shall inspect the site of installation of the proposed system and propose any necessary renovation required for the installation The tenderer shall make good all works disturb to match existing or as directed by Department of Technical Services. The renovation proposed shall include, but not limited to the following: - Shielding - Electrical - Structural and access requirements Tenderer shall comply to set quality standards of Maintenance Department. For further information, contact Department of Technical Services A network installation plan detailing cable runs, cable type, termination, concentrators, hubs, bridges, and all other network devices shall be prepared by the Tenderer and approved by the Project Team / Manager prior to proposed system installation. Tables / cabinets for workstation, chairs etc should be included.			

SECTION I - USER REQUIREMENT	YES	NO	PLEASE SPECIFY THE SPECIFICATION/ SCOPE OFFERED FAILURE TO FILL THE OFFER DETAIL SHALL BE IDENTIFIED AS NON-COMPLIANCE TO THE OFFER
UPS and power cables for all computers back-up. Tenderer shall mobilize and demobilize the machineries used at the work site and remove the debris from the site after completion of works.			
After completion of renovation and installation of the equipment, the Tenderer shall arrange for independent radiation body to perform radiation safety survey. The report of this radiation survey shall be made available before commissioning of the equipment.			

	SECTION II - PROCUREMENT REQUIREMENT	
BRAND AND MODEL OF EQUIPMENT:		
COUNTRY OF ORIGIN:		
PRICE (CIF) B\$	UNIT PRICE (B\$ CIF):	TOTAL PRICE (B\$ CIF):
WHERE MARKETED:		
YEAR MANUFACTURED:		
WARRANTY:		
DELIVERY TIME:		
PRICE VALIDITY:		

	SECTION III - TECHNICAL REQUIREMENTS
MAINS POR SUPPLY:	
BATTERY BACKUP:	
INTERNATIONAL SAFETY STANDARD:	
TECHNICAL SUPPORT:	
DIMENSIONS (mm):	
WEIGHT (in Kg):	
EQUIPMENT WHOLE LIFE TIME SUPPORT:	Number of years, spare parts are available after the installation of the equipment: years.

		YES	NO
BROCHURE	Detailed brochure submitted?		
USER MANUALS	Tenderers must supply during commissioning, three sets of user manuals, one set must be in the form of soft copy. (PDF Format)		
SERVICE MANUALS	Tenderers must supply during commissioning, three sets of service manuals, one set must be in the form of soft copy. (PDF Format).		
SPARE-PARTS AND CONSUMABLES LISTINGS	Tenderers must supply during commissioning, a comprehensive list of equipment spare- parts and consumables in the form of soft copy (e.g.: Microsoft EXCEL). The listing must have the following details; 1) Part Number 2) Part Description		
WARRANTY PLANNED PREVENTIVE MAINTENANCE (PPM)	Tenderers must carry-out a minimum of two times PPM per year during the equipment warranty period, starting from six months after the date of commissioning.		
TECHNICAL TRAINING:	Tenderers to conduct training to Biomedical Engineers and Technicians.		
ON-SITE:	<ul> <li>Training to be conducted locally, tenderers are required to:</li> <li>Provide training materials, test equipment, demo equipment, etc.</li> <li>Provide training to two groups of technical staffs.</li> <li>Provide 2 days (minimum) of training for each group.</li> <li>Training to be conducted at National Dental Centre /MOH</li> </ul>		
AT MANUFACTURER'S PREMISES:	<ul> <li>Training to be conducted at the manufacturer's training premises / facilities. Tenderers are required to:</li> <li>Provide air tickets, accommodation, transportation, etc. for 2 persons.</li> <li>Provide training for 2 persons.</li> <li>Minimum no of days for training – 3 days.</li> </ul>		

- 1. We offer and undertake on your acceptance of our Tender to provide the above mentioned services in accordance with your Invitation To Tender.
- 2. Our Tender is fully consistent with and does no contradict or derogate from anything in your Invitation To Tender. We have not qualified or changed any of the provisions of your Invitation To Tender.
- 3. OUR OFFER IS VALID FOR <u>TWELVE (12)</u> CALENDAR MONTHS FROM THE TENDER CLOSING DATE.
- 4. When requested by you, we shall extend the validity of this offer.
- 5. We further undertake to give you any further information which you may require.

Dated this\_\_\_\_\_day of\_\_\_\_\_,

Signature of authorised officer of Tenderer Name: Designation: Tenderer's official stamp

SECTION I - USER REQUIREMENT		YES	NO	PLEASE SPECIFY THE SPECIFICATION/ SCOPE OFFERED FAILURE TO FILL THE OFFER DETAIL SHALL BE IDENTIFIED AS NON- COMPLIANCE TO THE OFFER
	DENTAL THREE-DIMENSIONAL (3D) IMAGIN	NG		
STANDARD FEATURES	Radiographic maxillofacial imaging solutions for dental.         Capable of:         -       Three-dimensional imaging         -       Panoramic         -       Extraoral bitewing         -       Cephalometric imaging         3D sensor is also fully capable of 2D imaging         Various capture modes to meet all diagnostic requirement         Low dose imaging         Temple support         Chin support         Adjustable height according to the patient's height			
	Emergency switch; To cut off all power to the equipment in case of emergency			

	Handle frame for the patient to stabilize their position during imaging	
	Remote functionality which allows unit to be operated outside of the x-ray room	
Region of Interest (ROI):	<ul> <li>Full arch</li> <li>TMJ</li> <li>Sinusoidal images</li> <li>Endodontic &amp; Single implant</li> <li>Other capabilities (Tenderer to specify)</li> </ul>	
Field of View (FOV)	<ul> <li>Selectable</li> <li>Full arch – Tenderer to state FOV size</li> <li>TMJ – Tenderer to state FOV size</li> <li>Sinusoidal images – Tenderer to state FOV size</li> <li>Endodontic &amp; Single implant – Tenderer to state FOV size</li> </ul>	
Patient type:	Adult & Paediatric	
Focal spot size:	0.5 mm	
Anode Tube specification:	<ul> <li>Tube voltage:</li> <li>Min Voltage: not more than 60 kVp</li> <li>Max Voltage: not less than 90 kVp</li> <li>Tube current:</li> <li>Min Current : not more than 4 mA</li> <li>Max Current : not less than 14 mA</li> </ul>	
Scan time:	Tenderer to specify	
Patient position:	- Standing - Wheel-chair accessible	

PC SYSTEM REQUIREMENT		
Model/Type	Enterprise grade	
Processor	7 <sup>th</sup> Generation Intel Core i5 Processor or higher	
RAM	8GB DDR4	
Storage	500GB, SATA2 or 3, 7200 rpm	
Video Graphics	Intel HD Integrated	
Connectivity	<ul> <li>Bluetooth 4.0 or higher</li> <li>Ethernet</li> <li>Wireless-N</li> </ul>	
Ports	<ul> <li>USB 3.0</li> <li>Universal audio jack</li> <li>security lock slot</li> <li>external antenna connector (Optional)</li> <li>DisplayPort</li> <li>HDMI</li> <li>VGA</li> <li>RJ-45</li> <li>1 power connector</li> </ul>	
Weight	Not exceeding 4 kg	
Operating system	Microsoft Windows 10 pro 64 bit	
Security Features	Trusted Platform Module Allows remote support	
Monitor	Tenderer to specify	

	The Equipment Should Come With All Necessary Accessories For It To Be Fully Operational		
	ROOM REQUIREMENT		
STANDARD FEATURES	Tenderer shall inspect the site of installation of the proposed system and propose any necessary renovation required for the installation         The tenderer shall make good all works disturb to match existing or as directed by Department of Technical Services.         The renovation proposed shall include, but not limited to the following: <ul> <li>Shielding</li> <li>Electrical</li> <li>Structural and access requirements</li> </ul> Tenderer shall comply to set quality standards of Maintenance Department. For further information, contact Department of Technical Services         A network installation plan detailing cable runs, cable type, termination, concentrators, hubs, bridges, and all other network devices shall be prepared by the Tenderer and approved by the Project Team / Manager prior to proposed system installation.         Tables / cabinets for workstation, chairs etc should be included.         UPS and power cables for all computers back-up. Tenderer shall mobilize and demobilize the machineries used at the work site and remove the debris from the site after completion of works.         After completion of renovation and installation of the equipment, the Tenderer shall arrange for independent radiation body to perform radiation safety survey. The report of this radiation survey shall be made available before commissioning of the equipment.		

	SECTION II - PROCUREMENT REQUIREMENT		
BRAND AND MODEL OF EQUIPMENT:			
COUNTRY OF ORIGIN:			
PRICE (CIF) B\$	UNIT PRICE (B\$ CIF):	TOTAL PRICE (B\$ CIF):	
WHERE MARKETED:			
YEAR MANUFACTURED:			
WARRANTY:			
DELIVERY TIME:			
PRICE VALIDITY:			

	SECTION III - TECHNICAL REQUIREMENTS
MAINS POR SUPPLY:	
BATTERY BACKUP:	
INTERNATIONAL SAFETY STANDARD:	
TECHNICAL SUPPORT:	
DIMENSIONS (mm):	
WEIGHT (in Kg):	
EQUIPMENT WHOLE LIFE TIME SUPPORT:	Number of years, spare parts are available after the installation of the equipment: years.

		YES	NO
BROCHURE	Detailed brochure submitted?		
USER MANUALS	Tenderers must supply during commissioning, three sets of user manuals, one set must be in the form of soft copy. (PDF Format)		
SERVICE MANUALS	Tenderers must supply during commissioning, three sets of service manuals, one set must be in the form of soft copy. (PDF Format).		
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TECHNICAL TRAINING:	Tenderers to conduct training to Biomedical Engineers and Technicians.		
ON-SITE:	<ul> <li>Training to be conducted locally, tenderers are required to:</li> <li>Provide training materials, test equipment, demo equipment, etc.</li> <li>Provide training to two groups of technical staffs.</li> <li>Provide 2 days (minimum) of training for each group.</li> <li>Training to be conducted at National Dental Centre /MOH</li> </ul>		
AT MANUFACTURER'S PREMISES:	<ul> <li>Training to be conducted at the manufacturer's training premises / facilities. Tenderers are required to:</li> <li>Provide air tickets, accommodation, transportation, etc. for 2 persons.</li> <li>Provide training for 2 persons.</li> <li>Minimum no of days for training – 3 days.</li> </ul>		