

MRI 1.5T

Bidder shall complete this form to provide responses about their proposed medical equipment. Each response by Bidder shall be supported with reference document, e.g: Catalogue, Equipment Technical Data Sheet, etc., and each reference shall be highlighted and/or labelled.

<p style="text-align: center;">UMDNS:</p> <p style="text-align: center;">18108</p> <p style="text-align: center;">Scanning Systems, Magnetic Resonance Imaging, Full-Body (1.5T)</p> <p style="text-align: center;">Total Quantity: 11</p>	<p>Equipment Location (Region): Quantity</p> <p>SIHREN a. West Indonesia: 4 units b. East Indonesia: 7 units</p>	<p>Description: Magnetic resonance imaging (MRI) scanning systems that allow imaging of all areas of the body, with magnetic field of 1.5 Tesla.</p> <p>This technical specification includes: a. MRI 1.5T b. Contrast Media Injector</p>		
PROPOSED DEVICE INFORMATION		REQUIREMENTS		BIDDER'S RESPONSE
Brand/Manufacturer Name	Bidder to specify	Enter Responses Here!		
Model Name	Bidder to specify	Enter Responses Here!		
Country of Origin	Bidder to specify	Enter Responses Here!		
Year of 1st Production for Model Proposed	Bidder to specify	Enter Responses Here!		
Brochure/Catalogue	Bidder shall provide product brochure in English. Both Soft copy and Hard copy are required.	Enter Responses Here!		
Nomor Izin Edar (NIE) - Indonesia Product Approval License	NIE will not be a prerequisite at bidding stage, yet required for contract award. Bidder to specify whether NIE has already been allotted, as detailed in the bidding document	Enter Responses Here!		
U.S. FDA Clearance, CE Mark (Conformité Européenne mark) (MDD), or other health, safety and environmental standard adherence	Bidder to specify, mandatory if NIE not allotted as of yet	Enter Responses Here!		
Picture of Model Proposed	Bidder to attach a picture of model proposed	Enter Responses Here!		
CLINICAL APPLICATIONS/PROCEDURES	REQUIREMENTS	BIDDER'S RESPONSE		
		Yes (✓)	No (x)	Bidder to enter responses about their device
Dedicated for whole body scanning	To clearly see the details of tissue structure, including soft tissue, and to distinguish normal from diseased tissue in order to diagnose and track the progress and treatment of disease.			Enter Responses Here!
Specialised for Cardiology use	To view the heart structure and major vessels; show how well the heart muscle is contracting, as well as help distinguish dead tissue from damaged tissue			Enter Responses Here!
Specialised for Orthopaedic use	For spine scanning, and to detect musculoskeletal disorders; To view cartilage, tendons, and ligaments, for diagnosing joint abnormalities; to study marrow diseases.			Enter Responses Here!
Specialised for Gynecology use	To determine the nature of lesions discovered, e.g: breast cancer			Enter Responses Here!
Specialised for Urology use	To detect metastatic liver disease; to stage prostate, bladder, and uterine cancer; to evaluate kidney transplant viability			Enter Responses Here!
Specialised for Ophthalmology and ENT use	To image the eyes and the sinuses			Enter Responses Here!
For head scanning	Detect Pantothenate kinase-associated neurodegeneration (PKAN), head tumors, developmental anomalies			Enter Responses Here!
For pediatric imaging	To image pediatric patients			Enter Responses Here!
For Neurology use	For brain scanning: to detect hyperacute stroke, to assess cervical and intracranial vasculature, to assess brain perfusion, to detect microbleed and haemorrhage			Enter Responses Here!
TECHNICAL SPECIFICATIONS/FEATURES	REQUIREMENTS	BIDDER'S RESPONSE		
		Yes (✓)	No (x)	Bidder to enter responses about their device
a. MRI 1.5T				
Magnet Configuration	Closed bore system for less scanning time			Enter Responses Here!

Strength (Magnetic Intensity), Tesla	1.5 Tesla			Enter Responses Here!
Guaranteed Homogeneity, ppm, within 30 cm DSV (Diameter of Spherical Volume)	0.3 ppm			Enter Responses Here!
Guaranteed Homogeneity, ppm, within 30 cm DSV (Diameter of Spherical Volume)	Less than 0.3 ppm Low ppm values indicate high homogeneity (larger useful imaging volume, better image quality, better fat saturation)			Enter Responses Here!
Guaranteed Homogeneity, ppm, within 45 cm DSV (Diameter of Spherical Volume)	2 ppm			Enter Responses Here!
Guaranteed Homogeneity, ppm, within 45 cm DSV (Diameter of Spherical Volume)	Less than 2 ppm Low ppm values indicate high homogeneity (larger useful imaging volume, better image quality, better fat saturation)			Enter Responses Here!
Dimensions of maximum useful Field of View (FOV) and homogeneity, (x, y, z), cm	50 x 50 x 50 cm The diameter of spherical volume (DSV) defines the usable imaging volume available, which is the primary driver of image quality.			Enter Responses Here!
Shimming, Main Magnet	Passive and Active			Enter Responses Here!
Patient-Specific shimming time, sec (Method used to correct perturbations to the magnetic field caused by the patient.)	Bidder to specify			Enter Responses Here!
Magnet Cooling	Liquid helium			Enter Responses Here!
Cryogen Boil Off Rate	Zero boil off			Enter Responses Here!
Cryogen Refill Frequency	Bidder to specify			Enter Responses Here!
Gantry	Required			Enter Responses Here!
Bore Diameter at Isocenter, cm	60 cm			Enter Responses Here!
Bore Diameter at Isocenter, cm	More than 60 cm			Enter Responses Here!
Total Bore Length with Covers, cm	170 cm			Enter Responses Here!
Total Bore Length with Covers, cm	Less than 170 cm			Enter Responses Here!
Table	Detachable table or MRI-safe patient transfer cart required			
Load Limit, kg	227 kg			Enter Responses Here!
Load Limit, kg	More than 227 kg; Bidder to specify larger load limit if available			Enter Responses Here!
Detachable	Detachable table or MRI-safe patient transfer cart required Bidder to specify			Enter Responses Here!
Minimum Height, cm	Less than 60 cm			Enter Responses Here!
Table Length, cm	Bidder to specify			Enter Responses Here!
Feet-First Imaging Studies	Required			Enter Responses Here!
Acoustic Noise	With acoustic noise reduction system			Enter Responses Here!
Maximum Sound Pressure Level (SPL) or Acoustic Noise Levels at peak gradient amplitude and slew rate, dB(A)	110dB(A)			Enter Responses Here!
Maximum Sound Pressure Level (SPL) or Acoustic Noise Levels at peak gradient amplitude and slew rate, dB(A)	Less than 110dB(A)			Enter Responses Here!
Acoustic Noise Reduction System, dB(A)	80dB(A)			Enter Responses Here!
Acoustic Noise Reduction System, dB(A)	Less than 80dB(A)			Enter Responses Here!
Reduction technology	Hardware-based and software-based technologies used to reduce the acoustic noise caused by vibration of the gradient coil. Bidder to specify			Enter Responses Here!
Gradient System	Gradient coils generate pulsed magnetic fields to modify the uniform static magnetic field and allow measurements to be taken at selected locations over the entire plane of interest. During a scanning sequence, the system constantly turns the gradients on and off. The stronger the gradients, the faster the slew rate will have to be; therefore, the performance of the gradients is an important consideration for advanced applications that require thin slices and fast acquisitions.			Enter Responses Here!
Standard Name	Bidder to specify			Enter Responses Here!
Standard Strength, z-axis, milliteslas per meter (mT/m)	40 mT/m.			Enter Responses Here!
Standard Strength, z-axis, milliteslas per meter (mT/m)	More than 40 mT/m. Bidder to specify			Enter Responses Here!

Standard Slew Rate, z-axis, T/m/sec	At least 150 T/m/sec.			Enter Responses Here!
Standard Slew Rate, z-axis, T/m/sec	> 150 T/m/sec. Bidder to specify			Enter Responses Here!
Spin Echo Pulse Sequences, minimum TR, msec	Less than 12 msec. Bidder to specify			Enter Responses Here!
Gradient Echo Pulse Sequences, minimum TR in 2-D, msec	Less than 2 msec. Bidder to specify			Enter Responses Here!
Gradient Echo Pulse Sequences, minimum TR in 3-D, msec	Less than 2 msec. Bidder to specify			Enter Responses Here!
Echo Planar Imaging (EPI), Minimum Echo Spacing, msec	Less than 0.8 msec. Bidder to specify			Enter Responses Here!
Minimum Slice Thickness 2-D/3-D, mm	0.3 mm or less. Bidder to specify			Enter Responses Here!
RF Transmit and Receive Parameters				
Power Output, kW	10 kW			Enter Responses Here!
Power Output, kW	More than 10 kW.. Bidder to specify			Enter Responses Here!
Receiver Bandwidth, kHz	1 kHz			Enter Responses Here!
Receiver Bandwidth, kHz	More than 1 kHz. Bidder to specify			Enter Responses Here!
Channel Options	16 channels			Enter Responses Here!
Channel Options	More than 16 channels. Bidder to specify			Enter Responses Here!
Maximum Number of Simultaneously Addressable Coil Elements	32 elements.			Enter Responses Here!
Maximum Number of Simultaneously Addressable Coil Elements	More than 32 elements. Bidder to specify			Enter Responses Here!
Location of Coil Connectors	Table and/or gantry. Bidder to specify In some MR exams, the user may need to use multiple coils to get the best possible results and have an efficient workflow. Multiple coil connection plugs must be available and all the connections must be conveniently located.			Enter Responses Here!
Parallel Imaging	Required, Parallel imaging uses redundant information acquired by multiple coil elements to significantly accelerate image acquisition. The overall image time can be reduced by a factor of two or more. The primary reason for reducing image time is to enable studies that would otherwise be compromised due to involuntary patient movement.			Enter Responses Here!
Parallel Imaging Technique	Bidder to specify			Enter Responses Here!
Maximum Parallel Acquisition Acceleration Factor	Bidder to specify			Enter Responses Here!
Scanning Modes/Features				
Standard Pulse Sequences	Required. A series of RF and gradient pulses used to generate MR signals for image acquisition.			Enter Responses Here!
Image Acquisition	Bidder to specify			Enter Responses Here!
a) Patient Movement Compensated, Head	Required			Enter Responses Here!
b) Patient Movement Compensated, Body	Required			Enter Responses Here!
c) Isotropic 3-D (T1)	Required			Enter Responses Here!
d) Isotropic 3-D Fast Spin Echo (T2)	Required			Enter Responses Here!
Fat-Suppressed Single Breath-Hold Body Imaging	Required for lower abdominal imaging studies. Single breath-hold 3-D body imaging using parallel acquisition of gradient echo pulse sequences.			Enter Responses Here!
Single-point Dixon acquisition	From a single acquisition, this technique generates different image contrasts such as water-only, fat-only, in-phase, and out-of-phase.			Enter Responses Here!
a) Water Contrast	Required			Enter Responses Here!
b) Fat Contrast	Required			Enter Responses Here!
c) Phase Contrast	Required			Enter Responses Here!
Gradient Echo	An imaging sequence in which echo is created by switching a pair of dephasing and rephasing gradients.			Enter Responses Here!
a) Spoiled Techniques	Required			Enter Responses Here!
b) Rewound Techniques	Required			Enter Responses Here!
c) Steady State Free Precession	Required			Enter Responses Here!
Inversion Recovery	Required			Enter Responses Here!

Magnetic Transfer Contrast	Required			Enter Responses Here!
Magnetic Susceptibility Imaging	Required			Enter Responses Here!
Diffusion Imaging	Required			Enter Responses Here!
Perfusion Imaging, Head	Required			Enter Responses Here!
Perfusion Imaging, Body	Required			Enter Responses Here!
Spectroscopy, Single Voxel	Required			Enter Responses Here!
Functional imaging, neurological	Required			Enter Responses Here!
Breast Imaging with Fat Suppression	Required			Enter Responses Here!
Cardiac Imaging	Required			Enter Responses Here!
a) ECG gated	Required			Enter Responses Here!
b) Respiratory Gating	Required			Enter Responses Here!
Contrast-Enhanced Imaging	Required			Enter Responses Here!
Extremity Contrast-Enhanced Imaging	Required			Enter Responses Here!
Magnetic Resonance Angiography (MRA) or Non-Contrast Angiographic Imaging	Required			Enter Responses Here!
a) Time of Flight (TOF) Angiography	Required			Enter Responses Here!
b) Phase Contrast	Required			Enter Responses Here!
c) Steady-state free precession (SSFP)	Required			Enter Responses Here!
Diffusion Tensor Imaging	Required			Enter Responses Here!
Control Console	To allow images to be stored, recalled, and manipulated			Enter Responses Here!
Number of Display Monitors	≥ 2			Enter Responses Here!
Number of Laser Printers	≥ 1			Enter Responses Here!
Standard User Interface	Bidder to specify			Enter Responses Here!
Operating System	Bidder to specify			Enter Responses Here!
Number of Stored Scanning Protocols	Bidder to specify			Enter Responses Here!
Local Hard Disk Capacity	≥ 320 GB			Enter Responses Here!
Local Hard Disk Capacity	≥ 1TB			Enter Responses Here!
Storage Memory, RAM	Bidder to specify			Enter Responses Here!
Workflow Efficiency Features	Bidder to specify			Enter Responses Here!
Protocol-Sharing Tools	Bidder to specify			Enter Responses Here!
Parameter Adjustment Aides	Bidder to specify			Enter Responses Here!
Tools for Scanning MR-Conditional Implants	Required, Bidder to specify			Enter Responses Here!
Others, if any	Bidder to specify			Enter Responses Here!
Viewing Workstation	For observation of MRI images			Enter Responses Here!
Number of Display Monitors	≥ 2, Medical grade			Enter Responses Here!
Display Monitor Size	≥ 24"			Enter Responses Here!
Display Monitor Resolution	At least 1920 x 1200			Enter Responses Here!
Standard User Interface	Bidder to specify			Enter Responses Here!
Number of Laser Printers	≥ 1			Enter Responses Here!
Workstation Capability	For quantitative image analysis tools			Enter Responses Here!
a) Cardiac Imaging	Required			Enter Responses Here!
b) Perfusion Imaging	Required			Enter Responses Here!
c) Diffusion Imaging	Required			Enter Responses Here!
d) Diffusion Tensor Imaging	Required			Enter Responses Here!
e) fMRI	Required			Enter Responses Here!
Others, if any	Bidder to specify			Enter Responses Here!
Storage Server	Images to be stored for later retrieval and review/manipulation, hard copies can be printed from digital storage.			Enter Responses Here!
Operating System	Bidder to specify			Enter Responses Here!

Image Storage Capacity, Local Hard Drive, TB	Bidder to specify			Enter Responses Here!
Contrast Injection Integration	Required			Enter Responses Here!
Type of Disinfectant used for Infection Control	Free of corrosive ingredients			Enter Responses Here!
Compatible Agents	Bidder to specify			Enter Responses Here!
Cleaning Instruction/Guideline for Clinicians/Users	Bidder to provide			Enter Responses Here!
b. Contrast Media Injectors				
Type	Contrast media delivery system for MRI with contrast media warming unit.			Enter Responses Here!
MRI Compatibility	Support up to 1.5T MRI system			Enter Responses Here!
Material of Construction	Constructed of non-ferromagnetic (MRI-compatible materials) that are safe to use in the MR environment and do not cause artifacts or interfere with magnet operation			Enter Responses Here!
Letter from Manufacturer	Bidder to provide			Enter Responses Here!
Magnetic Field Strength, T	Bidder to specify			Enter Responses Here!
Gauss Line Restriction, G	Bidder to specify			Enter Responses Here!
Injector Head Mounting Configuration	Mounted on a pedestal, mobile			Enter Responses Here!
Arm Switch Control	Required, to prevent the accidental triggering of an injection			Enter Responses Here!
Fluid Heating Feature	Required, to maintain the contrast medium at or near body temperature to minimize trauma to the patient.			Enter Responses Here!
Temperature Control	Thermostatically controlled			Enter Responses Here!
Temperature Range, °C	Bidder to specify			Enter Responses Here!
Syringe Injection/Delivery System	Automatic, Electromechanically operated			Enter Responses Here!
Syringe Type	Dual-syringes type			Enter Responses Here!
Disposable Syringe	Disposable type to prevent the spread of infection to subsequent patients.			Enter Responses Here!
Syringe Transparency	Required, to allow air bubbles to be seen more easily and purged before the injection			Enter Responses Here!
Contrast Syringe Capacity, mL	At least 60mL. Bidder to specify			Enter Responses Here!
Saline Syringe Capacity, mL	Bidder to specify			Enter Responses Here!
Flow Controlled Feature	Required, to control delivery of contrast medium			Enter Responses Here!
Flow Rate Range, mL/sec	Adjustable from 0.1mL/sec to 7mL/sec. Bidder to specify			Enter Responses Here!
Pressure Controlled Feature	Required, to control the maximum pressure that can be generated in the syringe			Enter Responses Here!
Delivery Pressure Range, psi	20psi to 200psi. Bidder to specify			Enter Responses Here!
Increment, psi	In increment of 10psi. Bidder to specify			Enter Responses Here!
Rise Time Feature	Adjustable, the amount of time required to achieve proper pressure/flow after initiating an injection to reduce the incidence of catheter dislocation and vascular trauma.			Enter Responses Here!
Increment, sec	Bidder to specify			Enter Responses Here!
Adjustable Volume Stop (Backup Stop)	Required, to prevent the excess delivery of contrast medium			Enter Responses Here!
Mechanism	Electronically or Mechanically. Bidder to specify			Enter Responses Here!
Increment, mL	In increment of 1mL. Bidder to specify			Enter Responses Here!
Extravasation (Leakage) Detection System	Required, to prevent the leaking of contrast media from the veins into surrounding tissue			Enter Responses Here!
Air Detector System	Required, air-in-line sensor to alert the user and stop the injection if air is detected			Enter Responses Here!
Keep-Vein-Open (KVO) Feature	Required, for greater automation of injection process			Enter Responses Here!
Tubing Saline Flush	Required, automatically switching from contrast medium to saline once contrast optimization has been achieved, to reduce the amount of medium that the patient receives.			Enter Responses Here!
Alerts System	Required, audible and visual			Enter Responses Here!
a) Air Detected and/or Purge Required	Alarm triggered			Enter Responses Here!
b) Low or Empty Syringe Volume	Alarm triggered			Enter Responses Here!
c) High Flow and/or Volume Injected	Alarm triggered			Enter Responses Here!
d) Overpressure	Alarm triggered			Enter Responses Here!

e) Leakage Detected	Alarm triggered			Enter Responses Here!
f) Others	Bidder to specify			Enter Responses Here!
User Interface	Remote controlled console			Enter Responses Here!
Display Monitor	Colour touchscreen			Enter Responses Here!
Screen Size, inches	Bidder to specify			Enter Responses Here!
Protocols Storage	Programmable			Enter Responses Here!
Maximum Numbers of Protocols Stored	Bidder to specify			Enter Responses Here!
Maximum Numbers of Phases	Bidder to specify			Enter Responses Here!
Application Software	Bidder to provide and specify all software required for intended procedures			Enter Responses Here!
Type of Disinfectant used for Infection Control	Free of corrosive ingredients			Enter Responses Here!
Compatible Agents	Bidder to specify			Enter Responses Here!
Cleaning Instruction/Guideline for Clinicians/Users	Bidder to provide			Enter Responses Here!
ACCESSORIES REQUIRED FOR EACH CLINICAL APPLICATION/PROCEDURES	REQUIREMENTS	BIDDER'S RESPONSE		
		Yes (✓)	No (x)	Bidder to enter responses about their device
a. MRI 1.5T				
1. Coils	Image quality can be significantly improved by using specialized RF coils designed for specific body parts, such as the spine, knee, breast, or temporomandibular joint.			Enter Responses Here!
Type of Coils	Multiple coils			Enter Responses Here!
Dedicated Surface or Adaptable Multi-Element Matrix Coils	Adaptable type Adaptable general-purpose coils (multiple coils) can be combined to adapt to clinical needs, which provides users with more options and requires that fewer coils be purchased.			Enter Responses Here!
Element Selection	Automatic selection			Enter Responses Here!
a) Head Coils	1 set per system			Enter Responses Here!
Configuration	Free-Floating or Attaches to Table. Bidder to specify			Enter Responses Here!
Interior Dimensions, H x W x D, cm	Bidder to specify			Enter Responses Here!
Number of Elements	≥ 12 elements			Enter Responses Here!
Detachable Face	Required. A detachable front section is intended to help reduce patient anxiety.			Enter Responses Here!
Patient Mirror(s)	Required. A small mirror that enables the patient to see outside the bore, which can reduce patient anxiety.			Enter Responses Here!
b) Neck Coils	1 set per system			Enter Responses Here!
Type of Neck Coils	Flexible type			Enter Responses Here!
Dimensions, H x W x D, cm	Bidder to specify			Enter Responses Here!
Number of Elements	≥ 16 elements			Enter Responses Here!
c) Spine Coils	1 set per system			Enter Responses Here!
Configuration	Coils integrated into patient table			Enter Responses Here!
Dimensions, L x W, cm	90 cm superior to inferior coverage			Enter Responses Here!
Number of Elements	≥ 16 elements			Enter Responses Here!
d) Torso Coils	1 set per system			Enter Responses Here!
Type of Torso Coils	Flexible type			Enter Responses Here!
Dimensions, L x W, cm	50 cm superior to inferior coverage			Enter Responses Here!
Number of Elements	≥ 16 elements			Enter Responses Here!
Weight, kg	Bidder to specify			Enter Responses Here!
Maximum Coils Used Simultaneously	Bidder to specify			Enter Responses Here!
e) Peripheral Vascular Array Coil	1 set per system, Required for Peripheral Vascular MR Angiography & stenosis diagnosis			Enter Responses Here!
Number of Elements	≥ 16 elements			Enter Responses Here!

Dimensions, L x W, cm	Bidder to specify			Enter Responses Here!
Weight, kg	Bidder to specify			Enter Responses Here!
f) Breast Coils	1 set per system			Enter Responses Here!
Number of Elements	≥ 8 elements			Enter Responses Here!
g) Knee Coils	1 set per system			Enter Responses Here!
Number of Elements	≥ 16 elements			Enter Responses Here!
h) Other Standard Coils	Bidder to specify			Enter Responses Here!
i) Optional Coils Available	Bidder to specify			Enter Responses Here!
2. Multi-shelves MR-compatible Cabinet for Coils and other Accessories	1 cabinet per system			Enter Responses Here!
3. MR-compatible type Oxygen Gas Cylinders with Stand	Required			Enter Responses Here!
4. MR-compatible type Medical Air Gas Cylinders with Stand	Required			Enter Responses Here!
5. MR-compatible Footstools	Required			Enter Responses Here!
6. MR-compatible Fire Extinguisher with Wall-mount or Bracket	Required			Enter Responses Here!
7. Others, if any	Bidder to specify			Enter Responses Here!
b. Contrast Media Injectors				
1. Adapter for Syringes	2 set per unit			Enter Responses Here!
Others	Bidder to specify			Enter Responses Here!
START-UP CONSUMABLES, where applicable	REQUIREMENTS	BIDDER'S RESPONSE		
		Yes (√)	No (x)	Bidder to enter responses about their device
a. MRI 1.5T				
N/A	N/A			
b. Contrast Media Injectors				
Disposable Syringes and Tubings Kit	100 sets per unit			Enter Responses Here!
Others	Bidder to specify			Enter Responses Here!
DEVICE PHYSICAL ATTRIBUTES	REQUIREMENTS	BIDDER'S RESPONSE		
		Yes (√)	No (x)	Bidder to enter responses about their device
a. MRI 1.5T				
Dimension, H x W x D, cm	Bidder to specify			Enter Responses Here!
Overall Gantry Dimensions (including table), H x W x D, m	Bidder to specify			Enter Responses Here!
Gantry Weight (including Cryogen and Covers), kg	Bidder to specify			Enter Responses Here!
b. Contrast Media Injectors				
Console Unit Dimension, H x W x D, cm	Bidder to specify			Enter Responses Here!
Injector Unit Dimension, H x W x D, cm	Bidder to specify			Enter Responses Here!
Weight, kg	Bidder to specify			Enter Responses Here!
MECHANICAL & ELECTRICAL (M&E) REQUIREMENTS	REQUIREMENTS	BIDDER'S RESPONSE		
		Yes (√)	No (x)	Bidder to enter responses about their device
a. MRI 1.5T				
Electrical Requirement, V	400V, 3-Phase			Enter Responses Here!
Power Consumption, kW	Bidder to specify highest power consumption			Enter Responses Here!
Scanning, kW	Bidder to specify			Enter Responses Here!
Standby, kW	Bidder to specify			Enter Responses Here!
Not in use, kW	Bidder to specify			Enter Responses Here!
UPS Requirement	Required. Bidder to specify			Enter Responses Here!
Compliant with IEC 60601 - Safety of Medical Electrical Equipment	Required. Bidder to provide certificate.			Enter Responses Here!
Compliant with IEC Standards for Energy Efficiency	Bidder to specify relevant IEC Standards			Enter Responses Here!
Certifications related to Energy Efficiency	Bidder to specify.			Enter Responses Here!
Quench Pipe Requirement	Bidder to specify			Enter Responses Here!
Chiller System				
Chiller System Requirement, BTU	For chiller system, Bidder to specify			Enter Responses Here!

Incoming Water Piping Opening Size, inches (in)	For chiller system, Bidder to specify			Enter Responses Here!
Water Pressure, Bar	For chiller system, Bidder to specify			Enter Responses Here!
Drainage Size, Inches (in)	For chiller system, Bidder to specify			Enter Responses Here!
b. Contrast Media Injectors				
Electrical Requirement, V	230V, Single-Phase			Enter Responses Here!
Power Plug Type	3-pins/prongs power plug with strain relief			Enter Responses Here!
Power Consumption, W	Bidder to specify			Enter Responses Here!
Battery	Rechargable			Enter Responses Here!
Battery Operating Time, hr	Bidder to specify			Enter Responses Here!
Battery Recharging Time, hr	Bidder to specify			Enter Responses Here!
Battery Indicator	Bidder to specify			Enter Responses Here!
UPS Requirement	Bidder to specify			Enter Responses Here!
Compliant with IEC 60601 - Safety of Medical Electrical Equipment	Required. Bidder to provide certificate.			Enter Responses Here!
Compliant with IEC Standards for Energy Efficiency	Bidder to specify relevant IEC Standards			Enter Responses Here!
Certifications related to Energy Efficiency	Bidder to specify.			Enter Responses Here!
MEDICAL GASES REQUIREMENTS	REQUIREMENTS	BIDDER'S RESPONSE		
		Yes (✓)	No (x)	Bidder to enter responses about their device
MRI compatible medical gas panel and waveguides within RF Cabin	Bidder to supply and complete installation of medical gas wall panel			Enter Responses Here!
IT REQUIREMENTS	REQUIREMENTS	BIDDER'S RESPONSE		
		Yes (✓)	No (x)	Bidder to enter responses about their device
Compatibility with DICOM (Digital Imaging and Communications in Medicine)	DICOM 3.0, PACS Connectivity, DICOM encryption support			Enter Responses Here!
Modality Worklist Service Class User (SCU)	Bidder to specify			Enter Responses Here!
MR Image Storage SCU	Bidder to specify			Enter Responses Here!
Query/Retrieve SCU and Service Class Provider (SCP)	Bidder to specify			Enter Responses Here!
Storage Commitment SCU	Bidder to specify			Enter Responses Here!
Modality Performed Procedure Step SCU	Bidder to specify			Enter Responses Here!
Integrating the Healthcare Enterprise (IHE) Profiles Supported	Required for communicating different devices			Enter Responses Here!
Interface with Information System	Required, e.g: HIS, RIS, EMR, etc			Enter Responses Here!
Type of Networking/Connectivity Interface	Wireless or LAN-Port Bidder to specify			Enter Responses Here!
Compatible Data Management System (Middleware)	Bidder to specify			Enter Responses Here!
System Upgradeable in Future	Software and hardware upgradeable at no cost			Enter Responses Here!
Remote Support Capability	Off site diagnosis of technical issues and remote fixes			Enter Responses Here!
Cybersecurity Consideration	Applies to medical device which is connected to other devices or systems for data exchange			Enter Responses Here!
Installation of latest software version	Bidder to provide			Enter Responses Here!
Anti-malware software and firewalls	Required			Enter Responses Here!
Software patches and updates	Bidder to provide			Enter Responses Here!
Deactivation of unnecessary open communication physical interfaces (e.g.: USB ports)	Ability to disable (software and hardware)			Enter Responses Here!
Confidentiality and Security Measures	Bidder to provide Password protected, authentication, wireless security protocols, audit trails			Enter Responses Here!
Adherence to local regulations on security and privacy of electronic health information (e.g.: Health Insurance Portability and Accountability Act (HIPAA) in the USA)	Bidder to specify			Enter Responses Here!
Remote Support Capability	Off site diagnosis of technical issues and remote fixes			Enter Responses Here!
ARTIFICIAL INTELLIGENCE (AI) CAPABILITES, where applicable	REQUIREMENTS	BIDDER'S RESPONSE		
		Yes (✓)	No (x)	Bidder to enter responses about their device
Does the equipment include any AI Capability?	Bidder to specify AI Capabilities.			Enter Responses Here!
AI-assisted scanning	Bidder to specify			Enter Responses Here!
AI-based MRI image processing and enhancement	Bidder to specify			Enter Responses Here!

AI image post-processing analysis and report	Bidder to specify			Enter Responses Here!
Analysis of Neurology MRI scans	Bidder to specify			Enter Responses Here!
Analysis of Cardiac MRI scans	Bidder to specify			Enter Responses Here!
Analysis of Prostate MRI scans	Bidder to specify			Enter Responses Here!
Others	Bidder to specify			Enter Responses Here!
What is the AI capability intended to assist with? (e.g., workflow automation, diagnosis assistance, patient scheduling, other)	Bidder to Specify			Enter Responses Here!
Does the AI Capability have High or Low impact on Patient Care?	Bidder to Specify			Enter Responses Here!
Is this equipment that incorporates AI capabilities generally classified as high-risk or low-risk?	Bidder to specify			Enter Responses Here!
Are the AI capabilities embedded in the device or require of third party applications?	Bidder to specify			Enter Responses Here!
TELEMEDICINE (TM) CAPABILITITES, where applicable	REQUIREMENTS	BIDDER'S RESPONSE		
		Yes (√)	No (x)	Bidder to enter responses about their device
Does the equipment have telemedicine capability or can it be used in telemedicine applications?	Bidder to specify telemedicine capabilities			Enter Responses Here!
Asynchronous telemedicine capabilities. Store-and-forward technology is asynchronous in that it allows for the images or data to be interpreted at a later time and eliminates the need for the patient and physician to be in the same room or venue. (i.e., through store and forward, in which patient information, such as an image or data, "stored" in the originating facility's (i.e., where the patient is) computer system is sent securely ("forwarded") to the telehealth provider at the distant site (i.e., where the provider is) for review.)	Bidder to specify			Enter Responses Here!
Remote patient monitoring capabilities. Remote patient monitoring, in which vital sign information (e.g., blood pressure) and other data (e.g., blood glucose levels) are collected by monitoring devices, usually at home, and transferred to the patient's physician. This technology is used often in the care of patients with chronic conditions.	Bidder to specify			Enter Responses Here!
Mobile health (mHealth) integration capabilities. Mobile health (mHealth), in which healthcare and public health information are communicated through mobile devices. The information may include general educational information, targeted texts, and notifications about disease outbreaks.	Bidder to specify			Enter Responses Here!
Other telemdicine capabilities.	Bidder to specify			Enter Responses Here!
Is telemedicine offered through a 3rd party vendor?	Bidder to specify			Enter Responses Here!
Video Capabilities (if available)				
Are video capabilities needed? If so, specify if they are included in the solution or offered through 3rd party add-on?	Bidder to specify			Enter Responses Here!
If video capabilities are available, specify the resolution	Bidder to specify			Enter Responses Here!
Is night vision available?	Bidder to specify			Enter Responses Here!
Does the system offer pan/tilt features?	Bidder to specify			Enter Responses Here!
Is video zoom available?	Bidder to specify			Enter Responses Here!
Audio capabilities (if available)				
Is audio functionality available?	Bidder to specify			Enter Responses Here!
Specify audio features	Bidder to specify			Enter Responses Here!
Is echo cancellation available?	Bidder to specify			Enter Responses Here!
Is noise cancellation available?	Bidder to specify			Enter Responses Here!
ROOM REQUIREMENT	REQUIREMENTS	BIDDER'S RESPONSE		
		Yes (√)	No (x)	Bidder to enter responses about their device
MRI Scanning Room Readiness Requirement	To supply, install and complete commission of the room, includes wet works and painting, wall and floor finishing, ceiling works and lightings			Enter Responses Here!
Passive Shielding - RF Cabin Installation	Complete installation of custom design RF cabin			

Passive Shielding - Metal Base Plate	If required			
Ferromagnetic Detectors	Bidder to provide and install. into RF cabin's door frame.			
Audio/Video Communication System	Bidder to provide 2-ways, within bore system. To be integrated with Control Console & RF Cabin			
Pre-Installation Requirements	All electrical power supply and installation to technical, control and MRI scanning room			
Fringe Field (0.5 mT, 5 gauss) in x, y, z directions, m	3 radially and 5 axially from isocenter			
Air conditioning requirements	To supply, install and complete commissioning of required air conditioning in equipment room and technical room			
Fire Alarm and Protection System	Bidder to supply and install			
Control Room or Workstation	Bidder to supply and install			
Technical Room	Bidder to supply and install			
Chiller System	Bidder to supply and install			
Emergency Exhaust System	Bidder to supply and install			
Room Lighting	Bidder to supply and install			
Quench Pipe	Bidder to supply and install			
Temperature Requirements	The areas temperature ranges from 22-32 C. Equipment must be operational in that temperature range. If it is not please specify the range needed.			
Humidity Requirements	The area's relative humidity ranges between 70% and 90%. Equipment must be operational in that range. If it is not please specify the range needed.			
MAINTENANCE & SERVICE REQUIREMENTS	REQUIREMENTS	BIDDER'S RESPONSE		
		Yes (√)	No (x)	Bidder to enter responses about their device
Acceptance Testing & Commissioning	Yes, inclusive of vendor representative attendance, with test equipments and supplies Bidder must perform Acceptance Testing & Commissioning that includes Electrical Safety Testing using calibrated test equipment and tools, and procedural checklist. Bidder shall inspect and test all medical equipment supplied to hospital in accordance to manufacturer's recommended procedures.			Enter Responses Here!
User Training	Required. Twice, within 4 weeks upon successful Acceptance Testing & Commissioning.			Enter Responses Here!
Duration of User Training Session (Time)	Bidder to specify the duration of training session			Enter Responses Here!
Operator Manual (Instruction For Use) and Service Manual	Required. Bidder to provide in Hardcopy and/or Softcopy upon successful Acceptance Testing & Commissioning.			Enter Responses Here!
Warranty Duration	To commence upon successful Acceptance Testing & Commissioning. Warranty Duration: minimum 5 years, inclusive of annual preventive maintenance and repair services; inclusive of all labor, parts, logistics and transportation			Enter Responses Here!
Extension of Warranty Duration	To commence upon successful Acceptance Testing & Commissioning. Extension Warranty Duration: Year 6 and 7, inclusive of annual preventive maintenance and repair services; inclusive of all labor, parts, logistics and transportation			Enter Responses Here!
Manufacturer Recommended Annual Preventive Maintenance (Kalibrasi) Interval	Bidder to specify, by number of times a year, minimum 2 times per year			Enter Responses Here!
Comprehensive Service Contract Duration, Post Warranty	To commence upon end of Warranty Duration. Comprehensive Service Contract Duration: minimum 5 years, inclusive of annual preventive maintenance and repair services; inclusive of all labor, parts, logistics and transportation			Enter Responses Here!
Response Time, Remote Technical Support (Phone/Email)	Within 1 hour upon notification from user, inclusive of weekends and public holidays Applicable for both Warranty Duration and Comprehensive Service Contract Duration.			Enter Responses Here!
Response Time, On-site Technical Support	Within 48 hours upon notification from user, inclusive of weekends and public holidays			Enter Responses Here!

Turnaround time for corrective maintenance	less than 5 business days (with penalty system)			Enter Responses Here!
Uptime Guarantee, Annually (days)	≥95%			Enter Responses Here!
Assured Availability of Spare Parts	10 years post Acceptance Testing and Commissioning Date			Enter Responses Here!
Installation Base (Specific to this model)	Please provide installation base (hospital name and location), year of installation			Enter Responses Here!