

Cathlab (Bi-plane)

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.

UMDNS: 16597 Radiographic/Fluoroscopic Systems, Angiography/Interventional (Bi-Plane) Total Quantity: 3	Equipment Location (Region): Quantity	Description:		
	SIHREN a. West Indonesia: 3 units	The Radiographic/Fluoroscopic Systems shall include: a. Radiographic/Fluoroscopic Systems, Angiography/Interventional (Bi-Plane) b. Injectors, Contrast Media, Angiography c. Lights, Surgical, Ceiling-Mounted, Multiple-Head		
PROPOSED DEVICE INFORMATION	REQUIREMENTS	BIDDER'S RESPONSE		
a. Radiographic/Fluoroscopic Systems, Angiography/Interventional (Bi-Plane)				
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!		
Nombor 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!		
b. Injectors, Contrast Media, Angiography				
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!		
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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!		
c. Lights, Surgical, Ceiling-Mounted, Multiple-Head				
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!		
Nombor 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	REQUIRED SPECIFICATIONS	BIDDER'S RESPONSE		
		Yes (√)	No (x)	Bidder to enter responses about their device
a. Radiographic/Fluoroscopic Systems, Angiography/Interventional (Bi-Plane)				
General Angiographic Applications - Diagnostic vascular imaging and vascular interventional procedures.	Evaluation of peripheral vascular disease; the diagnosis of pulmonary embolisms, arteriovenous malformations, and sarcomatous tumors; the assessment of vascular abnormalities associated with pancreatic carcinoma; and the visualization of abdominal aortic aneurysms, abdominal angina, and abdominal tumors.			Enter Responses Here!
Cardiovascular Applications - Coronary arteriography, Cardiac angiography	To visually evaluate the anatomy and pathology of the heart and coronary vessels (e.g., to detect coronary artery disease and angina pectoris).			Enter Responses Here!
Cardiac Catheterization Applications	Invasive procedure used primarily to locate and identify irregularities within the heart and its vasculature, the aorta, or the vena cava, as well as to define the size or severity of lesions. Also used in diagnosing disorders such as reduced left ventricular function, valve incompetence, pulmonary vascular disease, congenital anomalies, and pacemaker lead placement.			Enter Responses Here!
Cardiac Catheterization Physiologic Monitoring	To help clinicians observe physiologic changes resulting from treatment during catheterization			Enter Responses Here!
Neurovascular applications: - Diagnostic neurovascular procedures	Diagnostic brain and spinal vascularization: Evaluation of neurovascular disease, diagnosis of stroke, cerebral aneurysm, brain and spinal vascular malformation			Enter Responses Here!
Neurovascular applications: - Interventional Neurovascular Procedures	Invasive procedure such as mechanical thrombectomy for stroke, coil embolization of brain aneurysms, embolization for brain and spinal vascular malformation			Enter Responses Here!
b. Injectors, Contrast Media, Angiography				
To introduce viscous fluids (contrast media) into an artery or vein through a small catheter in angiography procedures for examining the coronary and renal arteries, the great vessels and the vasculature of the heart, brain, abdominal organs, and extremities.	Dedicated for angiogram scanning procedures			Enter Responses Here!
To warm contrast-media vials before administration by reducing the viscosity in highly viscous contrast agents.	Dedicated for angiogram scanning procedures			Enter Responses Here!
c. Lights, Surgical, Ceiling-Mounted, Multiple-Head				
For illuminating the procedural site	Cathlab use			Enter Responses Here!

TECHNICAL SPECIFICATIONS/FEATURES	REQUIRED SPECIFICATIONS	BIDDER'S RESPONSE		
		Yes (✓)	No (x)	Bidder to enter responses about their device
a. Radiographic/Fluoroscopic Systems, Angiography/Interventional (Bi-Plane)				
Type	Bi-Plane			Enter Responses Here!
Bi-Plane System	Two (Dual) gantry arm containing the x-ray system and the image-recording system			Enter Responses Here!
Imaging Modality Capabilities	a) Cardiovascular and Cerebrovascular			Enter Responses Here!
	b) Angiography and Vascular Interventions			Enter Responses Here!
	c) Rotational Angiography Capabilities			Enter Responses Here!
	d) Digital Subtraction Angiography (DSA)			Enter Responses Here!
Dual Gantry (C-Arm) Configuration	Posteroanterior (PA) Gantry and Lateral Gantry			Enter Responses Here!
Movement	a) Posterior-Anterior			Enter Responses Here!
	b) Cranio-caudal (tilts toward the head (cranially) and feet (caudally))			Enter Responses Here!
	c) Lateral			Enter Responses Here!
Posteroanterior (PA) Gantry	Floor-mounted			Enter Responses Here!
Depth between Detector and Collimator, cm	Bidder to specify			Enter Responses Here!
Right Anterio Oblique (RAO) Projection Angle, deg	≥117 deg			Enter Responses Here!
Right Anterio Oblique (RAO) Projection Angle, deg	≥140 deg			Enter Responses Here!
Right Anterio Oblique (RAO) Projection Angle, deg	≥160 deg			Enter Responses Here!
Left Anterio Oblique (LAO) Projection Angle, deg	≥105 deg			Enter Responses Here!
Left Anterio Oblique (LAO) Projection Angle, deg	≥140 deg			Enter Responses Here!
Left Anterio Oblique (LAO) Projection Angle, deg	≥150 deg			Enter Responses Here!
Cranial-to-Caudal Angulation Angle, deg	≥ +/- 45 deg			Enter Responses Here!
Cranial-to-Caudal Angulation Angle, deg	Total range ≥ 100 deg (e.g. 50/70, 50/90, etc.)			Enter Responses Here!
Rotation Rate, deg/sec	≥ 15 deg/sec			Enter Responses Here!
Rotation Rate, deg/sec	≥ 20 deg/sec			Enter Responses Here!
Rotation Rate, deg/sec	≥ 25 deg/sec			Enter Responses Here!
Source-to-Image Distance (SID) Movement Range, cm	Minimum range: 90cm to 105cm			Enter Responses Here!
Source-to-Image Distance (SID) Movement Range, cm	Less than 90cm to more than 105cm (e.g., 90 cm to 120 cm)			Enter Responses Here!
Source-to-Image Distance (SID) Movement Range, cm	Bidder to Specify range			Enter Responses Here!
Movement Position Lock	Automatic			Enter Responses Here!
Lateral Gantry	Ceiling-mounted			Enter Responses Here!
Depth between Detector and Collimator, cm	Bidder to specify			Enter Responses Here!
Right Anterio Oblique (RAO) Projection Angle, deg	≥117 deg			Enter Responses Here!
Right Anterio Oblique (RAO) Projection Angle, deg	≥140 deg			Enter Responses Here!
Right Anterio Oblique (RAO) Projection Angle, deg	≥160 deg			Enter Responses Here!
Left Anterio Oblique (LAO) Projection Angle, deg	≥105 deg			Enter Responses Here!
Left Anterio Oblique (LAO) Projection Angle, deg	≥140 deg			Enter Responses Here!
Left Anterio Oblique (LAO) Projection Angle, deg	≥150 deg			Enter Responses Here!
Cranial-to-Caudal Angulation Angle, deg	≥ +/- 45 deg			Enter Responses Here!
Cranial-to-Caudal Angulation Angle, deg	Total range ≥ 100 deg (e.g. 50/70, 50/90, etc.)			Enter Responses Here!
Rotation Rate, deg/sec	≥ 15 deg/sec			Enter Responses Here!
Rotation Rate, deg/sec	≥ 20 deg/sec			Enter Responses Here!
Rotation Rate, deg/sec	≥ 25 deg/sec			Enter Responses Here!
Source-to-Image Distance (SID) Movement Range, cm	Minimum range: 90cm to 105cm			Enter Responses Here!
Source-to-Image Distance (SID) Movement Range, cm	Less than 90cm to more than 105cm (e.g., 90 cm to 120 cm)			Enter Responses Here!
Movement Position Lock	Automatic			Enter Responses Here!
Patient Table	Floor-mounted			Enter Responses Here!
Movement Directions	Lateral, Longitudinal, Vertical			Enter Responses Here!
Lateral (Sideway) Movement Range, cm	≥ +/-14cm (28cm total)			Enter Responses Here!
Lateral (Sideway) Movement Range, cm	≥ +/-18cm (36cm total)			Enter Responses Here!
Lateral (Sideway) Movement Range, cm	≥ +/-20cm (40cm total)			Enter Responses Here!
Longitudinal (Lengthwise) Movement Range, cm	≥ 110 cm from end-to-end			Enter Responses Here!
Longitudinal (Lengthwise) Movement Range, cm	≥ 140 cm from end-to-end			Enter Responses Here!
Longitudinal (Lengthwise) Movement Range, cm	≥ 170 cm from end-to-end			Enter Responses Here!
Vertical (Height) Movement Range, cm	Bidder to specify			Enter Responses Here!
Tabletop X-Ray Density, mm Al	Bidder to specify			Enter Responses Here!
Patient Weight Limit, kg	Minimum 200 kg			Enter Responses Here!
X-Ray Generator System	High-frequency type			Enter Responses Here!
Power Rating, kW @ 100 kVp	≥100kW			Enter Responses Here!
Power Rating, kW @ 100 kVp	≥110kW			Enter Responses Here!
Power Rating, kW @ 100 kVp	≥120kW			Enter Responses Here!
Radiographic mA	≥1000mA			Enter Responses Here!
Radiographic mA	≥1100 mA			Enter Responses Here!
Radiographic kV Range	At least 40kV - 150 kV			Enter Responses Here!
Radiographic Timer, sec	Bidder to specify			Enter Responses Here!
Fluoroscopic mA	10 mA			Enter Responses Here!
Fluoroscopic mA	More than 20 mA			Enter Responses Here!
Fluoroscopic kV Range	At least 60kV - 110 kV			Enter Responses Here!
Max Cine Range, fps	≥15 fps			Enter Responses Here!
Max Cine Range, fps	≥30 fps			Enter Responses Here!
Max Cine Range, fps	≥60 fps			Enter Responses Here!
Control System	Integrated system, in room			Enter Responses Here!
X-Ray Tube System	High frequency generator			Enter Responses Here!
X-Ray Tube	2			Enter Responses Here!
Power Rating, kW	Bidder to specify			Enter Responses Here!
Focal Spot Size, mm	3 focal spots: 0.2mm - 0.4mm, 0.5mm - 0.7mm, 1mm - 1.3 mm			Enter Responses Here!

Grid Pulsed	Required			Enter Responses Here!	
Anti-Scatter Grid	Required			Enter Responses Here!	
Housing Heat Storage Capacity, HU	minimum 1,500,000			Enter Responses Here!	
Heat Dissipation Rate, HU/min	minimum 300,000 HU/min			Enter Responses Here!	
Cooling System	Required			Enter Responses Here!	
Cooling System Type	Bidder to specify type of cooling system used				
Fluoroscopy System	Pulsed-fluoroscopy, reduce exposure rates without a significant loss of image information			Enter Responses Here!	
Pulse Rate, fps	Between 1 fps to 30 fps			Enter Responses Here!	
Digital Detector Type	Digital flat-panel detector system			Enter Responses Here!	
Number of detectors	1			Enter Responses Here!	
Detector Dimension (field of view) for Gantry, cm	30cm x 30cm (or equivalent area)			Enter Responses Here!	
Spatial Resolution, center, lp/mm	≥ 2 lp/mm.			Enter Responses Here!	
Spatial Resolution, center, lp/mm	≥ 3 lp/mm.			Enter Responses Here!	3
Pixel Size, μm	Maximum 200 x 200 μm Bidder to specify			Enter Responses Here!	
Bit Depth	14			Enter Responses Here!	
Bit Depth	More than 14			Enter Responses Here!	1
Maximum Frame Rate, fps	≥15 (1024x1024)			Enter Responses Here!	
Maximum Frame Rate, fps	≥30 (1024x1024)			Enter Responses Here!	2
Maximum Frame Rate, fps	≥60 (512x512)			Enter Responses Here!	2
Detective Quantum Efficiency (DQE)	Bidder to specify			Enter Responses Here!	
Exposure Control Feature	Required			Enter Responses Here!	
Automatic Exposure Control (AEC)	Required. To control the length of x-ray exposure based on patient size and detector to minimize radiation exposure			Enter Responses Here!	
Virtual Collimation	Last-image hold (the collimators are set based on saved images rather than live fluoroscopy)			Enter Responses Here!	1
Copper Filtration Technique	Auto adjustable			Enter Responses Here!	1
Dose Monitoring	Built-in exposure monitoring system			Enter Responses Here!	3
Rotational Angiography Capabilities	Required, to allow the user to select start and end points for arm rotation.			Enter Responses Here!	
Image Acquisition Technique	Cone beam CT (Flat Detector CT, 3D rotational angiography)			Enter Responses Here!	
Image Reconstruction Time, sec	185 sec or less, depending on matrix size and acquired angles. Bidder to specify matrix size, acquired angle and average length of time			Enter Responses Here!	
Imaging Acquisition, fps	Bidder to specify			Enter Responses Here!	
512 x 512, images	≥30 fps			Enter Responses Here!	
512 x 512, images	≥60 fps			Enter Responses Here!	2
1024 x 1024, images	≥15 fps			Enter Responses Here!	
1024 x 1024, images	≥30 fps			Enter Responses Here!	2
Cardiac Software Package	Required			Enter Responses Here!	
Neurointerventional Software Package	Required: 3D DSA, 3D roadmap, etc			Enter Responses Here!	
Monitor	1 monitor in exam room			Enter Responses Here!	
Monitor Size	Minimum 50 inch single monitor, or multi-monitors configurations with equivalent number of pixels			Enter Responses Here!	
Resolution	8 MP, Medical grade			Enter Responses Here!	
Resolution	More than 8 MP			Enter Responses Here!	2
Display Capability	Bidder to specify, e.g.: Live images, Reference images, Live fluoro/unsubtracted native image during subtracted fluoro/DSA (enhanced road-map functionality), 3D modality images.			Enter Responses Here!	
Patient Monitoring	Required			Enter Responses Here!	
Data Displayed	User selectable			Enter Responses Here!	
Electrocardiogram (ECG)	12-lead			Enter Responses Here!	
Invasive Blood Pressure (IBP)	4 channels, Bidder to specify if there is additional channel			Enter Responses Here!	
Non-Invasive Blood Pressure (NIBP)	Required			Enter Responses Here!	
Oxygen Saturation (SpO2)	Required			Enter Responses Here!	
Cardiac Output (CO)	Required			Enter Responses Here!	
Heart Rate (HR)	Required			Enter Responses Here!	
Respiration	Bidder to specify			Enter Responses Here!	
Others	Bidder to specify, if any			Enter Responses Here!	
Traces	≥ 12, user configured			Enter Responses Here!	
Hemodynamic calculation	Required			Enter Responses Here!	
Recorder	Thermal Array/ Laser Printer. Bidder to specify.			Enter Responses Here!	
Annotations	Required. Alphanumerics printed as part of the hard-copy record (e.g., patient data, messages, real-time clock).			Enter Responses Here!	
Event Markers	Required. Markers printed on the record to note significant events (e.g., time of injection).			Enter Responses Here!	
Computer Interface	Required for data storage and analysis			Enter Responses Here!	
Control Console	To allow images to be stored, recalled, and manipulated			Enter Responses Here!	
Number of Display Monitors	At least 2 monitors at Control Console. Each monitor at least 17inch, with minimum 2K resolution			Enter Responses Here!	
Standard User Interface	Required			Enter Responses Here!	
Operating System	Required			Enter Responses Here!	
Number of Stored Scanning Protocols	Required			Enter Responses Here!	
Local Hard Disk Capacity	Required			Enter Responses Here!	
Viewing Workstation	For observation of angiographic images			Enter Responses Here!	
Number of Display Monitors	At least 1 monitor for viewing of images. Each monitor at least 17inch, with minimum 2K resolution			Enter Responses Here!	
Standard User Interface	Required			Enter Responses Here!	
Number of Laser Printers	1 unit			Enter Responses Here!	
Storage Server	Radiographic 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	Required, minimum 1 TB			Enter Responses Here!	
512 x 512, images	Ability to store more than 48,000 images Bidder to specify			Enter Responses Here!	2
1024 x 1024, images	Ability to store more than 12,000 images Bidder to specify			Enter Responses Here!	2
Additional Storage	DVD-R			Enter Responses Here!	2
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. Injectors, Contrast Media, Angiography						
Type	Contrast media delivery system for Angiogram				Enter Responses Here!	
Injector Head Mounting Configuration	Mounted on a pedestal, mobile with lockable castors				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				Enter Responses Here!	
Temperature Control	Thermostatically controlled				Enter Responses Here!	
Temperature Range, C	Bidder to specify temperature range that is suitable for contrast medium, at or near body temperature				Enter Responses Here!	
Syringe Injection Delivery System	Automatic, Electromechanically operated				Enter Responses Here!	
Syringe Type	Dual-syringe 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	100 mL				Enter Responses Here!	
Contrast Syringe Capacity, mL	More than 100mL and capable of Incremental volume up to 200 mL. Bidder to specify if there is additional capacity				Enter Responses Here!	3
Saline Syringe Capacity, mL	100 mL				Enter Responses Here!	
Saline Syringe Capacity, mL	More than 100mL and capable of Incremental volume up to 200 mL. Bidder to specify if there is additional capacity				Enter Responses Here!	3
Flow Controlled Feature	Required, to control delivery of contrast medium				Enter Responses Here!	
Flow Rate Range, mL/sec	Capable of incremental flow rate up to 40mL/sec. Bidder to specify if there is additional capacity				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	200 psi to 1,200 psi. Bidder to specify				Enter Responses Here!	
Increment, psi	In increment of 10 psi or lower. Bidder to specify				Enter Responses Here!	
Rise Time Feature	Electronically or Mechanically. Bidder to specify				Enter Responses Here!	
Fill Speed	Automatic or Manual				Enter Responses Here!	
Manual Fill Speed	1-20 mLs				Enter Responses Here!	
Auto Fill Speed	1-10 mLs				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 1.0 mL, preferably lower				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!	
Air Detected and/or Purge Required	Alarm triggered				Enter Responses Here!	
Low or Empty Syringe Volume	Alarm triggered				Enter Responses Here!	
High Flow and/or Volume Injected	Alarm triggered				Enter Responses Here!	
Overpressure	Alarm triggered				Enter Responses Here!	
Others	Bidder to specify				Enter Responses Here!	
X-Ray Generator Synchronization	Required				Enter Responses Here!	
Injection Delay	Bidder to specify				Enter Responses Here!	
User Interface						
Display Monitor	Remote controlled console				Enter Responses Here!	
Display Monitor	Required. Colour touchscreen				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	Required				Enter Responses Here!	
Types of Application Software	Bidder to provide and specify all software required for intended procedures				Enter Responses Here!	
Air Detector System	Air-in-line sensor to alert the user and stop the injection if air is detected				Enter Responses Here!	
Extravasation Leakage Detection System	To prevent the leaking of contrast media from the veins into surrounding tissue Bidder to specify				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!	
c. Lights, Surgical, Ceiling-Mounted, Multiple-Head						
Number of Lighthead	Double lighthead				Enter Responses Here!	
Configuration	Single column, ceiling-mounted light with articulating arm suspension				Enter Responses Here!	
Angle of Rotation from Fixed Point, °	≥270° for each column				Enter Responses Here!	
Angle of Rotation from Fixed Point, °	≥360°				Enter Responses Here!	2
Vertical Adjustment Range, cm	At least 80cm for each column				Enter Responses Here!	
Vertical Adjustment Range, cm	More than 85cm for each column				Enter Responses Here!	2
Type of Light Source						
Main lighthead	LED				Enter Responses Here!	

Number of LEDs	Bidder to specify				Enter Responses Here!	
LED Lifespan, hr	≥30,000 hours				Enter Responses Here!	
LED Lifespan, hr	≥60,000 hours				Enter Responses Here!	1
Illumination Level, Lux at 1 m	≥120,000 lux				Enter Responses Here!	
Illumination Level, Lux at 1 m	≥140,000 lux				Enter Responses Here!	1
Adjustable illumination level	Required				Enter Responses Here!	
Colour Temperature, K	minimum 3,500K				Enter Responses Here!	
Colour Temperature Adjustment	Required				Enter Responses Here!	
Colour Rendering Index (CRI), R ₉ Value	95R ₉				Enter Responses Here!	
Colour Rendering Index (CRI), R ₉ Value	more than 95R ₉ . Higher R9 value is preferred				Enter Responses Here!	1
Field Size Diameter, cm	More than 18cm				Enter Responses Here!	
Field Size Diameter Adjustment	Required				Enter Responses Here!	
Field Size Depth, cm	More than 50cm				Enter Responses Here!	
Working Distance Range, cm	Bidder to specify range				Enter Responses Here!	
Endoscopy Mode	Bidder to specify				Enter Responses Here!	
Secondary lighthouse	LED				Enter Responses Here!	
Number of LEDs	Bidder to specify				Enter Responses Here!	
LED Lifespan, hr	≥30,000 hours				Enter Responses Here!	
LED Lifespan, hr	≥60,000 hours				Enter Responses Here!	1
Illumination Level, Lux at 1 m	≥120,000 lux				Enter Responses Here!	
Illumination Level, Lux at 1 m	≥140,000 lux				Enter Responses Here!	1
Adjustable illumination level	Required				Enter Responses Here!	
Colour Temperature, K	minimum 3,500K				Enter Responses Here!	
Colour Temperature Adjustment	Required				Enter Responses Here!	
Colour Rendering Index (CRI), R ₉ Value	95R ₉				Enter Responses Here!	
Colour Rendering Index (CRI), R ₉ Value	more than 95R ₉ . Higher R9 value is preferred				Enter Responses Here!	1
Field Size Diameter, cm	minimum 18cm				Enter Responses Here!	
Field Size Diameter Adjustment	Required				Enter Responses Here!	
Field Size Depth, cm	minimum 50cm				Enter Responses Here!	
Working Distance Range, cm	Bidder to specify range				Enter Responses Here!	
Endoscopy Mode	Bidder to specify				Enter Responses Here!	
Control Panel	On lighthouse and wall panel				Enter Responses Here!	
Sterilizable Handle	To control settings such as intensity and/or field diameter within the sterile field				Enter Responses Here!	
On and Off Switch Control	Required on lighthouse and wall panel				Enter Responses Here!	
Irradiance Level	Lower irradiance is preferred to prevent excessive heat.				Enter Responses Here!	
Maximum Irradiance at 1 m, W/m ²	<700				Enter Responses Here!	
Heat-to-light ratio, mW/m ² .lx	less than 4.4 mW/m ² .lx Lower heat ratio is preferred to prevent excessive heat.				Enter Responses Here!	
Shadow Control	Shadow free to minimize the appearance and harshness of shadows on the surgical site when the light beam may be partially obstructed				Enter Responses Here!	
Display Monitor	Required 1 arm for mounting 1 unit of display monitor				Enter Responses Here!	
Size, inches	≥19 inches, minimum 1K resolution				Enter Responses Here!	
Size, inches	≥ 24 inches, ≥ 2K resolution				Enter Responses Here!	2
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	Yes (√)	No (x)	BIDDER'S RESPONSE Bidder to enter responses about their device		
a. Radiographic/Fluoroscopic Systems, Angiography/Interventional (Bi-Plane)						
IV pole	Required.				Enter Responses Here!	
Software Modules	Required. Bidder to specify standard software provided for basic functionality, and also for specialized measurement and analysis of all intended clinical applications such as cardiovascular, angiography, peripheral vessels and neurology.				Enter Responses Here!	
Angiography Phantoms	Required. Minimum 1 set to evaluate lateral and axial resolution, distance accuracy, sensitivity, uniformity, and hard-copy appearance				Enter Responses Here!	
12-lead ECG	2 sets per unit				Enter Responses Here!	
IBP transducer	2 sets per unit				Enter Responses Here!	
NIBP transducer	2 sets per unit				Enter Responses Here!	
SpO ₂ Probe	2 sets per unit				Enter Responses Here!	
Others	Bidder to specify				Enter Responses Here!	
b. Injectors, Contrast Media, Angiography						
Adapter for Syringes	2 sets per unit				Enter Responses Here!	
Others	Bidder to specify				Enter Responses Here!	
c. Lights, Surgical, Ceiling-Mounted, Multiple-Head						
Sterilizable Handle	2 pc for each lighthouse				Enter Responses Here!	
Others	Bidder to specify				Enter Responses Here!	
START-UP CONSUMABLES, where applicable	REQUIREMENTS	Yes (√)	No (x)	BIDDER'S RESPONSE Bidder to enter responses about their device		
a. Radiographic/Fluoroscopic Systems, Angiography/Interventional (Bi-Plane)						
Personal Protective Equipment (Radiation Shielding)	Bidder to specify quantity for 100 typical patient procedures, including apron, goggles and thyroid shield				Enter Responses Here!	
b. Injectors, Contrast Media, Angiography						
Disposable Syringes and Tubings Kit	Bidder to specify quantity for 100 typical patient procedures				Enter Responses Here!	
Others	Bidder to specify				Enter Responses Here!	
c. Lights, Surgical, Ceiling-Mounted, Multiple-Head						
N/A	N/A					
DEVICE PHYSICAL ATTRIBUTES	REQUIREMENTS	Yes (√)	No (x)	BIDDER'S RESPONSE Bidder to enter responses about their device		
a. Radiographic/Fluoroscopic Systems, Angiography/Interventional (Bi-Plane)						
Dimension, H x W x D, cm	Bidder to specify				Enter Responses Here!	

Gantry Size, H x W x D, cm	Bidder to specify				Enter Responses Here!	
Table Size, L x W, cm	Bidder to specify				Enter Responses Here!	
Weight, kg	Bidder to specify				Enter Responses Here!	
b. Injectors, Contrast Media, Angiography						
Unit Dimension, H x W x D, cm	Bidder to specify				Enter Responses Here!	
Unit Weight, kg	Bidder to specify				Enter Responses Here!	
c. Lights, Surgical, Ceiling-Mounted, Multiple-Head						
Main lighthouse						
Diameter of each Lighthouse, cm	Bidder to specify				Enter Responses Here!	
Height Adjustment Range, cm	Bidder to specify maximum and minimum height				Enter Responses Here!	
Unit Weight, kg	Bidder to specify				Enter Responses Here!	
Secondary lighthouse						
Diameter of each Lighthouse, cm	Bidder to specify				Enter Responses Here!	
Height Adjustment Range, cm	Bidder to specify maximum and minimum height				Enter Responses Here!	
Unit 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. Radiographic/Fluoroscopic Systems, Angiography/Interventional (Bi-Plane)						
Electrical Requirement, V						
400 V, 50Hz 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!	
Uninterruptible Power Supply (UPS) System						
Required.	Bidder must provide sufficient UPS supply for the proposed DSA system.				Enter Responses Here!	
Coverage	Main system function and computer system				Enter Responses Here!	
UPS System Power Rating	Bidder to specify				Enter Responses Here!	
Estimated operation time, minutes	At least 30 minutes				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!	1
b. Injectors, Contrast Media, Angiography						
Electrical Requirement, V						
240 V AC, 50Hz, Single-Phase					Enter Responses Here!	
Power Plug Type	3-pins/prongs power plug with strain relief, in compliance with Indonesia requirements				Enter Responses Here!	
Power Consumption, kW	Bidder to specify highest power consumption				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!	1
c. Lights, Surgical, Ceiling-Mounted, Multiple-Head						
Electrical Requirement, V						
240 V AC, 50Hz, Single-Phase					Enter Responses Here!	
Power Consumption, W	Bidder to specify				Enter Responses Here!	
Power Plug Type	3-pins/prongs power plug with strain relief, in compliance with Indonesia requirements				Enter Responses Here!	
Power Backup System	Connected to Emergency Power System (EPS)				Enter Responses Here!	
IT REQUIREMENTS		REQUIREMENTS		BIDDER'S RESPONSE		
		Yes (√)	No (x)	Bidder to enter responses about their device		
a. Radiographic/Fluoroscopic Systems, Angiography/Interventional (Bi-Plane)						
Interface with Information System						
Compatibility with DICOM (Digital Imaging and Communications in Medicine)	DICOM 3.0, with encryption feature including sending, receiving, storing and archiving. PACS Connectivity.				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!	
Data Port	Data port must be activated, e.g: RS232 Bidder to ensure all output data will be transferable or integrated into HIS.				Enter Responses Here!	
Communication Protocol	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. Bidder to specify.				Enter Responses Here!	3
Cybersecurity Considerations						
Installation of latest software version	Bidder to provide				Enter Responses Here!	
Anti-malware software and firewalls	Required.				Enter Responses Here!	
Deactivation of unnecessary open communication channels (e.g.: USB ports)	Ability to disable (software and hardware)				Enter Responses Here!	2
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!	
b. Injectors, Contrast Media, Angiography						
Interface with Information System						
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!	
Data Port	Data port must be activated, e.g RS232 Bidder to ensure all output data will be transferable or integrated into HIS.				Enter Responses Here!	
Communication Protocol	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. Bidder to specify.				Enter Responses Here!	3
Cybersecurity Considerations						
Installation of latest software version	Bidder to provide				Enter Responses Here!	
Anti-malware software and firewalls	Required.				Enter Responses Here!	
Deactivation of unnecessary open communication channels e.g. USB ports	Ability to disable software and hardware				Enter Responses Here!	2
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!	
c. Lights, Surgical, Ceiling-Mounted, Multiple-Head						
N/A	N/A					
ARTIFICIAL INTELLIGENCE (AI) CAPABILITIES, where applicable		REQUIREMENTS		BIDDER'S RESPONSE		
		Yes (✓)	No (x)	Bidder to enter responses about their device		
a. Radiographic/Fluoroscopic Systems, Angiography/Interventional (BI-Plane)						
Does the equipment include any AI Capability?	Bidder to specify AI Capabilities.				Enter Responses Here!	3
What is the AI capability intended to assist with? (e.g., workflow automation, diagnosis assistance, patient scheduling, stroke perfusion analysis, 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!	
b. Injectors, Contrast Media, Angiography						
Does the equipment include any AI Capability?	Bidder to specify AI Capabilities.				Enter Responses Here!	1
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!	
c. Lights, Surgical, Ceiling-Mounted, Multiple-Head						
N/A	N/A					
TELEMEDICINE (TM) CAPABILITIES, where applicable		REQUIREMENTS		BIDDER'S RESPONSE		
		Yes (✓)	No (x)	Bidder to enter responses about their device		
MEDICAL GASES REQUIREMENTS						
医用气体要求		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 provide installation				Enter Responses Here!	
a. Radiographic/Fluoroscopic Systems, Angiography/Interventional (BI-Plane)						
Does the equipment have telemedicine capability or can it be used in telemedicine applications?	Bidder to specify telemedicine capabilities				Enter Responses Here!	3
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 telemedicine 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!	2
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!	2
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!	
b. Injectors, Contrast Media, Angiography						
N/A	N/A					

c. Lights, Surgical, Ceiling-Mounted, Multiple-Head					
N/A	N/A				
MEDICAL GASES REQUIREMENTS, where applicable	REQUIREMENTS	Yes (v)	No (x)	BIDDER'S RESPONSE	
N/A	N/A			Bidder to enter responses about their device	
ROOM REQUIREMENTS	REQUIREMENTS	Yes (v)	No (x)	BIDDER'S RESPONSE	
a. Radiographic/Fluoroscopic Systems, Angiography/Interventional (Bi-Plane) Room Readiness Requirement	To supply, install and complete commission of the room, includes wet works and painting, wall and floor finishing, ceiling works, necessary radiation shielding (walls, door frames, doors, viewing panes and frames, etc).			Enter Responses Here!	
Control Room or Workstation	Bidder to supply and install				
Technical Room	Bidder to supply and install including UPS cabinet				
Air conditioning requirements	Bidder to supply, install and complete commissioning of required air conditioning in equipment room and technical room				
Ceiling Load Capacity Requirement	Bidder to assess and provide reinforcement if necessary				
Room Radiation Protection	Bidder to supply and install barium shielded wall				
Audio/Video Communication System	Bidder to provide 2-ways To be integrated with Control Console				
Pre-Installation Requirements	All electrical power supply and installation to technical, control and equipment room				
Fire Alarm and Protection System	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.				
c. Lights, Surgical, Ceiling-Mounted, Multiple-Head Room Readiness Requirement					
Pre-Installation Requirement	All electrical power supply and installation to technical, control and equipment room			Enter Responses Here!	
MAINTENANCE & SERVICE REQUIREMENTS	REQUIREMENTS	Yes (v)	No (x)	BIDDER'S RESPONSE	
a. Radiographic/Fluoroscopic Systems, Angiography/Interventional (Bi-Plane)				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!	
Extention 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!	38
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 5 calendar days upon notification from user, inclusive of weekends and public holidays Applicable for both Warranty Duration and Comprehensive Service Contract Duration.			Enter Responses Here!	
Turnaround time for corrective maintenance	less than 5 calendar 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!	
b. Injectors, Contrast Media, Angiography					

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!	
Extention 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!	1
Manufacturer Recommended Annual Preventive Maintenance (Kalibrasi) Interval	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 5 calendar days upon notification from user, inclusive of weekends and public holidays Applicable for both Warranty Duration and Comprehensive Service Contract Duration.				Enter Responses Here!	
Turnaround time for corrective maintenance	less than 5 calendar 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!	
c. Lights, Surgical, Ceiling-Mounted, Multiple-Head						
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!	
Extention 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!	1
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 5 calendar days upon notification from user, inclusive of weekends and public holidays Applicable for both Warranty Duration and Comprehensive Service Contract Duration.				Enter Responses Here!	
Turnaround time for corrective maintenance	less than 5 calendar 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!	