

Response To Pre-Bid Queries (Pre-Bid date: 04.10.2022)				
Bid Number: GEM/2022/B/2583754 Dated: 27-09-2022				
Item Name: High end Mobile C-arm Machine				
Sr. No.	ATC DOCUMENT PARA AND PAGE	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRM	COMMITTEE RECOMMENDATION
1	Para, Page 01	It should be High Frequency Digital Mobile C-Arm with low dose paediatric surgery applications. It should have 15" or more touch screen control panel for selection of exposure parameters with display of live image on the control panel display. It should have following features:	<p>We request you to make the requirements more general for sellers to have a wider range of participation</p> <p>Every Company has their own mechanical parameter so kindly amend it as 13" or more for selection of exposure parameters with display of live image on the control panel display.</p> <p>This is company specific specification and there's only one company in the marketplace that has these types of features Every Company has their own mechanical parameter so kindly amend it as 13" or more touch screen control panel should be provided for open and wider participation.</p>	No change considered.
2	Para A.2 Page 01	Should have Generator frequency of 250KHz or more	<p>60 KHz or more.</p> <p>In High frequency machines, ripple factor less than 5% is required. More frequency produces more EMC/EMI noise which affects the machine performance. That is why majority of the companies are having max. 50KHz frequency which is ideal for optimal image quality. Also, if go beyond 50 KHz of frequency in radiographic applications, it really does not add anything to the image quality but produces more EMC/EMI noise.</p> <p><b>Therefore, kindly generalize as frequency 50 KHz or more for healthy and wider participation.</b></p> <p>In High frequency machines ripple factor less than 5% ripples are required. More frequency produces more EMC/EMI noise which affects the machine performance. That is why majority of the companies are having max. 50KHZ frequency which is ideal for optimal image quality. Also, if go beyond 50 KHz of frequency in radiographic applications, it really does not add anything to the image quality but will produce more EMC/EMI noise. Therefore, kindly generalize as frequency 50 KHz or more for healthy and wider participation.</p> <p>Kindly amend it as Should have Generator frequency of 40KHz or more Should have Motorized C-Arm Rotation of 225 degree or more in both side, Kindly amend it as Should have Motorized C-Arm Rotation of <math>\pm 180</math> degree or more in both side Should have Motorized Orbital travel of 145 degree (-55 degree, +90 degree) or more, kindly amend it as Should have Motorized Orbital travel of 120 degree (90 degree, -30 degree) or more Should have C-Arc depth of 680mm or more, kindly amend it as Should have C-Arc depth of 650mm or more Should have free space of 800mm or more, kindly amend it as Should have free space of 780mm or more Should have Source to image distance of 980mm or more, kindly amend it as Should have Source to image distance of 970mm or more Should have foot print/total width of 800 mm or less., Kindly amend it as Should have foot print/total width of 824 mm or less</p>	<b>Amended as: Should have Generator frequency of 100KHz or more.</b>

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3	Para A.6 Page 01	Should have mAs selection range of 250mAs or more	<p>We ask you to make the requirements more general for sellers in order to have a wider range of participation Asked: Mas selection range of 0.5 mA to 250 mAs or more Our Offer: For digital fluoroscopy machine asked higher mAs are not required. Please amend it as mAs selection 0.1 mAs to 30 mAs for open and wider participation</p> <p>For digital C-Arm fluoroscopy machine high mAs are not required. Please amend it as mAs selection 0.1 mAs to 30 mAs for open and wider participation.</p> <p>The Flat Panel Detector system helps the minimize radiation dose include pulsed fluoroscopy and last-image hold and screen capture, which negate further diagnostic image exposures.</p>	Amended as: Should have mAs selection range of <b>100mAs or more</b>
4	Para B.1 Page 1	It should be Microprocessor Controlled High Frequency of 250KHz or more X-Ray generator with 15" or more touch screen control panel LCD display for all operative parameters selection, live image and messages of eventual fault conditions.	<p>In High frequency machines, ripple factor less than 5% is required. More frequency produces more EMC/EMI noise which affects the machine performance. That is why majority of the companies are having max. 50KHz frequency which is ideal for optimal image quality. Also, if go beyond 50 KHz of frequency in radiographic applications, it really does not add anything to the image quality but produces more EMC/EMI noise.</p> <p><b>Therefore, kindly generalize as frequency 50 KHz or more for healthy and wider participation.</b></p>	Amended as: It should be Microprocessor Controlled High Frequency of <b>100KHz or more</b> X-Ray generator with 15" or more touch screen control panel LCD display for all operative parameters selection, live image and messages of eventual fault conditions.
5	Para C.1 Page 01	Should have dual focus rotating anode X-Ray tube with small focus of 0.3 mm <sup>2</sup> or less and Large focus of 0.6 mm <sup>2</sup> or less	Pls DELETE this clause and instead write " Should have compatible tube "	No change considered.
6	Para D.2 Page 01	Should have size of 21cm x21cm or more	<p>Kindly modify 21x21 as 26x26 so you can see full spine both kidneys full abdomen together. 21x21 detector is smallest and meant only for extremity, hand , knee.</p> <p>We request you to amend it as Should have size of 30 cm x 30 cm or more. It offers <b>High Sensitivity:</b> Bigger sensitive area (~900 cm<sup>2</sup>), better the conversion. Short Processing Time: Due to the high sensitivity of 30 cm x 30 cm flat panel detector, which makes it easy to detect X-ray beams passing through test samples, the processing time to generate an image, therefore, becomes faster. <b>Low Geometric Distortion:</b> Very minimal distortions to the image geometry. The image produced with a flat panel detector has no veiling glare, maintaining uniformity. <b>Better Image Quality:</b> 30cm x 30 cm Flat-panel detectors offer a wider field of view and best of precision imaging capabilities. <b>High Conversion Efficiency:</b> Bigger the size (30 cm x 30 cm), best the DQE.</p>	No change considered.

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7	Para E.2 Page 01	Should have Motorized C-Arm Rotation of 225 degree or more in both side	This is company specific specification and there's only one company in the marketplace that has these types of mechanical features Every Company has their own mechanical parameter so kindly amend it as 2. Should have Manual/Motorized C-Arm Rotation of 180 degree or more in both side	No change considered.
			This is company specific specification and there's only one company in the marketplace that has these types of mechanical features Every Company has their own mechanical parameter so kindly amend it as Manual/ Motorized C-Arm Rotation of 225 degree or more in both side	
8	Para E.3 Page 01	Should have Motorized Orbital travel of 145 degree (-55 degree, +90 degree) or more	Should have Manual/Motorized Orbital travel of 135 degree (-45 degree, +90 degree) or more	No change considered.
			This is company specific specification and there's only one company in the marketplace that has these types of mechanical features Every Company has their own mechanical parameter so kindly amend it as Manual/ Motorized Orbital travel of 135 degree (-45 degree, +90 degree) or more	
9	Para E.4 Page 02	Should have motorized vertical travel of 420mm or more	Should have Manual/motorized vertical travel of 430mm or more	No change considered.
10	Para E.5 Page 02	Should have Motorized Horizontal travel of 210mm or more	This is company specific specification and there's only one company in the marketplace that has these types of mechanical features Every Company has their own mechanical parameter so kindly amend it as Manual/ Motorized Horizontal travel of 210mm or more	No change considered.
			Should have Manual/Motorized Horizontal travel of 210mm or more	
11	Para E.6 Page 02	Should have C-Arc depth of 680mm or more	Should have C-Arc depth of 650mm or more	No change considered
			This is company specific specification and there's only one company in the marketplace that has these types of mechanical features Every Company has their own mechanical parameter so kindly amend it as C arm depth of 650mm or more for open and wider participation	
12	Para E.7 Page 02	Should have free space of 800mm or more	This is company specific specification and there's only one company in the marketplace that has these types of mechanical features Every Company has their own mechanical parameter so kindly it as Free space 780mm or more for open and wider participation	No change considered.
			Should have free space of 770mm or more	
13	Para E.8 Page 02	Should have Source to image distance of 980mm or more	This is company specific specification and there's only one company in the marketplace that has these types of mechanical features Every Company has their own mechanical parameter so kindly amend it as Source to image distance 970mm or more for open and wider participation	No change considered.
			Should have Source to image distance of 970mm or more	
14	Para E.9 Page 02	Should have foot print/total width of 800 mm or less.	Should have foot print/total width of 830 mm or less.	No change considered.

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			This is company specific specification and there's only one company in the marketplace that has these types of mechanical features Every Company has their own mechanical parameter so kindly amend it as Foot print/ total width of 824mm or less for open and wider participation.	
15	Para E.10 Page 02	Should have double steering wheel system for easy steering.	This is company specific specification and there's only one company in the marketplace that has these types of mechanical features Every Company has their own mechanical parameter so kindly amend it as Single/ double steering wheel system for easy steering. Should have single / double steering wheel system for easy steering	No change considered.
16	Para E.11 Page 02	Should have electromagnetic lock for wigwag movement and foot lock for parking.	Should have electromagnetic lock for horizontal movement and manual locks for wigwag movement and foot lock for parking.  This is company specific specification and there's only one company in the marketplace that has these types of mechanical features Every Company has their own mechanical parameter so kindly amend it as Electromagnetic/ Manual lock for wigwag movement and foot lock for parking	No change considered.
17	NA	Suggested by Bidder	Kindly also specify that Flat Panel Detector should be from same C Arm manufacturer.	No change considered.
18	Para I (Accessories) Page 2	Zero lead apron- 5Nos	Zero lead apron- 10Nos.	No change considered.
19	Para I (Accessories) Page 2	Zero lead Thyroid shields -5 Nos,	Zero lead Thyroid shields -10 Nos	No change considered.
20	Para I (Accessories) Page 2	Lead gloves – 10 pairs (single use type)	Lead gloves – 20 pairs (single use type)	No change considered.
21	Para I (Accessories) Page 2	Lead Goggles – 05 Nos	Lead Goggles – 10 Nos	No change considered.
22	Para I (Accessories) Page 2	Lead apron wall stand with 5 Hangers for lead aprons – 01 No	Lead apron wall stand with 5 Hangers for lead aprons – 01 No	No change considered.
23	NA	Suggested by Bidder	Cover for C Arm 30 Nos	Not Considered
24	Para J (Others) Page 2	Equipment should have AERB Type Approval Certificate for radiation safety	Kindly modify as AERB Type approval/NOC	No change considered.
25	NA	Suggested by Bidder	UPS for full system with at least 15 minute back up. UPS batteries to be covered in warranty, CMC	Not Considered
26	NA	Suggested by Bidder	Imaging table with sliding top, variable height and standard accessories	Not Considered
27	NA	Suggested by Bidder	1 Extra review workstation.	Not Considered
28	NA	Suggested by Bidder	Kindly DELETE this clause as payment to be done only after supply and it is supplier's responsibility to do customs clearance	Not Considered

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29	NA	Suggested by Bidder	The published specifications are all highly specific to single brand i.e KIRAN. These are available to view on the company website. Product specifications are of similar quality, and can be viewed in the recommended links This is against the guidelines of Government. Please amend the specifications in manner like all movements should be manual operated and	Not Considered