Response To Pre-Bid Queries (Pre-Bid date: 17.11.2022)				
GeM Bid Number:GEM/2022/B/2701456 Dated: 03-11-2022				
Item Name: X-Ray-Flat panel DR 1000mA				
Sr. No.	**Buyer Specification document Para and Page**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**COMMITTEE RECOMMENDATION**
1	NA	Suggested by bidder	To ensure top quality product kindly consider adding : It is mandatory that Radiation causing/controlling component i.e. X Ray Generator and X Ray tube ,collimator , software must be from same manufacturer. Attach undertaking.	Not considered
2	Para 1. a , pg 1	Two no.s Flat Panel Detectors: can be built in or wireless, however it should support all important radiogrpahy functions including cross table radiography and image stitching	Specs 1a and 2k are contradictory. 1a permits wireless detector whereas 2k forbids wireless detector. We request you not to permit wireless detector as in 1a as wireless detectors are risky can fall down , broken , stolen easily ,damaged. Pls consider both detectors inbuilt as in specs 2k and clarify again that wireless detectors are not allowed (2k will overrule 1a) . "Cross table radiography" word is specific to company. Kindly amend as system should supports all important radiography functions with the help of table & vertical bucky stand.	Amended as: Two Flat Panel Detectors (integrated one in the chest stand and another wireless detector for the table), however it should support all important radiogrpahy functions including cross table radiography and image stitching
3	Para 2 (Flat Panel Detector:), Point .c , pg 1	Image matrix size at least 2000 x 2000 or more	Image matrix size at least 4000 x 4000 or more Reason: The larger image matrix is, the more pixels we will have in image. If our field of view is fixed and we increase our image matrix, we will make the size of our pixels smaller as they squeeze into the fixed field of view. This will increase our resolution. A large matrix size maintained the spatial resolution and improved the image quality.	No change considered

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4	Para 2 (Flat Panel Detector:), Point d , pg 1	Minimum pixel should be 200 micron or less	Minimum pixel should be 120 micron or less Reason: Pixel pitch is the distance from the center of one pixel to the center of the next. The lower the pixel pitch number, the closer the pixels, and the sharper the image. In a DR panel, the distance is between photon-detecting pixels Inside a DR panel, phosphors such as gadolinium oxysulfide or cesium iodide (GadOx or CsI) produce light after interacting with X-rays. This light is then captured by an array of photon-detecting pixels. The panel with the tightest-packed pixels (i.e. the lowest pixel pitch) captures more light and will have an advantage in image clarity. Further , Pixel pitch is measured in µm – micro millimetres, which are each 1/1000 of a millimetre. Lowering the pixel pitch signifies the existence of better image quality Currently the pixel pitch range of commercial available DR panels is between 100-120 µm.	No change considered
5	Para 2 (Flat Panel Detector:), Point f , pg 1	A/D of 14 bit or better.	A/D of 16 bit or better Reason: Standard is 16 bit conversion from Analog to digital	No change considered
6	Para 2 (Flat Panel Detector:), Point .K , pg 1	Detectors should be integrated built in horizontal Bucky table & Vertical Bucky wall Stand. Wireless and tethered detectors are not acceptable.	Specs 1a and 2k are contradictory. 1a permits wireless detector whereas 2k forbids wireless detector. We request you not to permit wireless detector as in 1a as wireless detectors are risky can fall down , broken , stolen easily ,damaged. Pls consider both detectors inbuilt as in specs 2k and clarify again that wireless detectors are not allowed (2k will overrule 1a) .	Deleted

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7	Para 3 (Generator), point a, pg 1	X-ray generator should be of microprocessor controlled high frequency type with latest technology having constant output with low ripple frequency.	X-ray generator should be of microprocessor controlled high frequency of 400 KHz or more type with latest technology of solid state type, oil free generator having constant output with low/minimum ripple frequency. Reason: Solid state type & Oil free generator is a latest, established, better scientific technology mainly designed for x ray machine to produce minimal scattered radiation and widely available in the market. This ensures constant x ray output throughout the lifespan of machine whereas other oil based generator failed to maintain constant output after 1-2 years as well as oil spillage and need to change oil occurs time to time. Oil free system does not require any maintenance, long life, Heavy duty, Compact in size . Having frequency of 450 KHZ will produce minimal radiation because higher will be frequency minimum will be scattered radiation	No change considered
8	Para 3 (Generator), point g, pg 1	It should have automatic exposure control (AEC) device	It should have automatic exposure control (AEC) device with selection of 3 field ion-chambers, AEC density, AEC speed Reason: Better usage of AEC application	No change considered

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9	Para 3 (Generator), point g, pg 1	Anatomical programming radiography should be possible	Anatomical programming radiography should be 1000 programming possible Reason: Anatomically programmed radiography (APR) is a system of preprogramed exposure technique set- tings that is set by position and examination and operate through the control panel of the radiography unit. Essentially, an APR system is an electronic technique chart integration with 1000 APR programs memory. APR settings commonly provide recommendations for small, medium, and large adult patient sizes . It is important for the radiographer to assess the programmed exposure technique for its appropriateness to each radiographic examination. As an electronic "technique chart," APR provides a starting point for the selection of appropriate exposure factors. However, it is important for the radiographer to adjust these factors based on patient-specific variables such as body habitus and pathologic considerations to ensure proper exposure. The charts also allow radiologists and technologists to work together to determine an acceptable level of radiation exposure that provides diagnostic quality images with optimized dose.	NO change considered
10	Para 4 (X-ary tube), point C, pg 1	X-ray tube loading should be at least 30KW for small focus and at least 80KW for large focus.	Kindly DELETE 80 KW and instead write 75 KW or write 80 KW/OR compatible tube.	No change considered
11	Para 5 (Ceiling suspension), pt e, pg 1	SID (Source to Image Distance) in vertical positions 150 cm or more, in horizontal position 180 cm or more.	Vertical Bucky stand is used to placed little far from tube stand due to which more SID is required as compassion to table. Therefore kindly amend SID (source to image distance) as: •150cm for floor to tube focus •≥ 180cm for VBS/ standing examinations is provided	Amended as: SID (Source to Image Distance) supine positions 150 cm or more, in erect position 180 cm or more.
12	NA	Suggested by bidder	Kindly ADD that quoted model must be US FDA approved. Third party US FDA certificate OR US FDA in name of similar/other models will not be accepted.	Not considered

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13	Para 14(Approval), pg 3	Should have import/manufacturing license from Central licensing Authority or State licensing authority of CDSCO for Medical Devices and copy of valid license should be submitted for the quoted model.In case the vendor has not yet obtained import/manufacturing license from CDSCO for the quoted model, proof of application for CDSCO medical device license to be submitted in the bid document and valid CDSCO license to be produced at the time of supply/ NOA for the quoted model	Pls DELET complete full para of requirement of CDSCO as it is responsibility of vendor to do customs clearance.	No change considered
14	Para and pg 2	OPTIONAL AI Softwares :1. Detection of Lung nodules2. HDD encryption for safety and security of the images (Unit price be quoted separately and the same should be valid for warranty period)	OPTIONAL AI Softwares 1. Detection of Lung nodules 2. HDD encryption for safety and security of the images (Unit price be quoted separately and the same should be valid for warranty period) Please add these clause in future upgradation/ prospective Reason: The application of Detection Lung nodules & HDD is having better utilization in CT scanner machine. In the recent time , this AI software is evolved in x ray machine which is a patent technology of some imported company and it's a company specific clause. Most lung nodules are scar tissue from past lung infections. Lung nodules usually don't cause symptoms. They're often found by accident on a chest X-ray or CT scan done. Mostly the recommdation is to get a CT scan to see if the nodule is growing over time. Depending upon the nodules doctor suggests that the nodule could be cancer. This is based on the size, shape, and location of the nodule, as well as whether it is appear.	Amended As: AI Softwares :1. Detection of Lung nodules2. HDD encryption for safety and security of the images.
15	Para (Site Modification Scope of Work), point 3, page 3	The cost of site modification work for the area of 1000sq.ft and Air-conditioning of Tonnage 20 TR (including standby unit) will be considered for Ranking / Evaluation purpose.However the payment will be paid on prorata based on the actual site modification area.	as per prebid discussion	The cost of site modification work for the area of 400 sq.ft and Air-conditioning of Tonnage 5 TR (including standby unit) will be considered for Ranking / Evaluation purpose.However the payment will be paid on prorata based on the actual site modification area.

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16	Para BOQ, Page 5	All the Optional items offered should be quoted separately and the price should be valid for warranty period	as per prebid discussion	Deleted
17	Para 4(AIR CONDITIONING), point C, pg 4	Ventilation is required in toilet	as per prebid discussion	Deleted
18	Para BOQ(Air Conditioning)Point 1, PAGE 5	Civil works: 1000 Sq. Ft	as per prebid discussion	Civil works: 400 Sq. Ft
19	Para BOQ(Air Conditioning)Point 2, PAGE 5	Electrical work: 1000 Sq. Ft	as per prebid discussion	Electrical work: 400 Sq. Ft
20	Para BOQ(Air Conditioning)Point 3, PAGE 5	Public health (plumbing and sanitary fittings). 1000 sq	as per prebid discussion	Public health (plumbing and sanitary fittings): 400 sq ft.
21	Para BOQ(Air Conditioning)Point 4, PAGE 5	Air Conditioning 12	as per prebid discussion	Air Conditioning: 5TR
22	Para 14(Approval), pg 3	Added Para	as per prebid discussion	Quoted model should be BIS/USFDA / European CE approved.
23	NA	NA	as per prebid discussion	Added Para: Indicative Layout drawing attached.