

ACTREC

Dept: Radiodiagnosis Department

TECHNICAL SPECIFICATION OF RADIOLOGY REPORTING WORKSTATIONS, Quantity 01 No. FOR ACTREC, Navi Mumbai.

Please quote all the models including the state of the art equipment which meets the basic minimum

Sr. No.	Description of Item	Qty.	Compliance		Remarks
			Yes	No	
	Model Name :				
	Make :				
	Year of introduction:				
	Probable end of support:				
	The specifications that follow shall be understood to be the minimum required. Any item not covered under standard set should be quoted separately, additional technical features suitable to our requirements will be given due preference. The additional specifications include:				
A	WorkStation CPU	1			
1	Intel Xeon W-3225 (3.7GHz, 4.4GHz Turbo, 8C, 16.5MB Cache, HT, (160W)) DDR4-2666 or better				
2	32GB (2x16GB) DDR4 2666MHz RDIMM ECC Expandable to 256 GB				
3	2.5" 1TB 7200rpm SATA Hard Drive, 1 TB PCIe NVMe SSD (OPAL 2.0) Class 40 Solid State Drive				
4	RAID 0, 1, 5, 10 with onboard SATA controller in chipset, SATA 6Gb/s. Support for RAID 0, 1, 10 with optional LSI adapter, 12Gb/s SAS required				
5	Standard keyboard				
6	Standard optical mouse - wireless				
7	(2) PCIe x16,(1) PCIe x8,(1) PCIe x4				
8	(6) USB 3.1 , (1) Serial ,(2) PS/2,(1) Audio Line-in,(1) Audio Line/ Microphone-in -out/,(1),1 RJ-45. Additional RJ 45 port will be required when located in ICCC with dual LAN infrastructure				
9	Tower Cabinet				
10	DVD RW				
11	Integrated Gb Ethernet				
12	Windows 10 pro 64 bit- lic.				
13	Microsoft Office 2019 Standard edition license				
14	240 V +/- 10% single phase 50 Hz AC, 90% EFFICIENT, 425W				
15	5 years comprehensive warranty				
B	RADIOLOGY DISPLAY				
1	Diagnostic Radiology Monitor	1 SET (2 UNITS)			
1	2 MP DUAL HEAD				
2	Screen technology: IPS Pro				
3	Active screen size: 21.3"				
4	Pixel pitch: 0.27 mm				
5	Auto dimming of display and cloning via projector should be possible, as standard				
6	Should have spot magnification & invert, as standard				

7	Maximum luminance: 800 cd/m ² (PPU on); DICOM calibrated luminance: 500 cd/m ²				
8	Contrast ratio (panel typical): 1400:1				
9	Response time ((Tr + Tf)/2) (typical): 10 ms				
10	Features to improve and maintain image quality such as Ambient light compensation				
11	Tilt: -5° to +25°				
12	Swivel: -30° to +30°				
13	Pivot: 90°				
14	This device shall only be powered by the approved medical power supply				
15	Cloud based QA software for DICOM Calibration				
16	Should have protective glass cover				
17	Display company should have direct office in India for 10 years or more. Local swap to be provided in case of failure				
18	Height adjustment range: 100 mm				
19	Mounting standard: VESA (100 mm)				
20	Recommended modalities: All digital images, except digital Mammography				
21	<p>Certifications:</p> <p>CE1639 (MDD 93/42/EEC; A1:2007/47/EC class IIb product)</p> <p>CE - 2014/30/EU</p> <p>CE - 93/42/EEC; A1:2007/47/EC class II b</p> <p>IEC 60601-1(ed.3); IEC 60601-1(ed.3 am1)</p> <p>ANSI/AAMI ES60601-1(2005+C1:09+A2:10+A1:12)</p> <p>CAN/CSA-C22.2 No. 60601-1(2014)</p> <p>EN 60601-1-2:2015</p> <p>EN 60601-1:2006/A11:2011/A12:2014; EN 60601-1:2006/A1:2013</p> <p>CCC - GB9254-2008 + GB4943.1-2011 + GB17625.1-2012</p> <p>KC</p> <p>BIS</p> <p>VCCI</p> <p>FCC class B</p>				
	<p>Graphics Card</p> <p>a) Bus compatibility: PCIe Gen3 x16</p> <p>b) Power consumption: 75 W</p> <p>c) Form factor: 184.15 mm (7.2")(L) x 111 mm (4.4") (H) single PCIe slot wide</p> <p>d) AMD's scalable workstation GPU or better</p> <p>e) Display memory: 4 GB GDDR5</p> <p>f) Connectors: 4x DisplayPort (DP) 1.2 output or better</p>				
II	Secondary Display For HIS/RIS/EMR Access :-	1			
	2 MP REVIEW MONITOR				
1	Screen technology: LCD				
2	Active screen size (diagonal): 609.6 mm (24")				
3	Active screen size (H x V): 518.4 mm x 324.0 mm (20.4 x 12.8")				
4	Aspect ratio (H:V): 16:10				
5	Resolution: 2MP (1920 x 1200 pixels)				
6	Pixel pitch: 0.270 mm				
7	Color & gray imaging: Yes				
8	Bit depth: 30 bit				
9	Viewing angle (H, V): 178°				
10	Ambient light presets: Yes, reading room selection				

11	Front sensor: Yes, Front Consistency Sensor				
12	Maximum luminance: 430 cd/m ²				
13	DICOM calibrated luminance: 250 cd/m ²				
14	Contrast ratio (panel typical): 1000:1				
15	Response time ((Tr + Tf)/2) (typical): 7 ms				
16	Video input signals: 1 x DP, 1 x DVI-I				
17	USB ports: 1x USB 2.0 upstream (endpoint) 2x USB 2.0 downstream				
18	Tilt: -5° to +22°				
19	Pivot: 0° to 90°				
20	Height adjustment range: 110 mm				
21	Certifications FDA Class I, 510(k) exempt CE (Medical Device Class I) CCC (China), KC (Korea), BIS (India), EAC (Russia) Safety specific: IEC 60950-1:2005 + A1:2009 + A2:2013 EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013 IEC 60601-1:2005 + CORR. 1:2006 + CORR. 2:2007+AM1:2012 EN 60601-1:2006 + A1:2013 + A12:2014 ANSI/AAMI ES 60601-1:2005 + R1:2012 CAN/CSA C22.2 No. 60601-1:2014 EMI specific: IEC 60601-1-2: 2014 (ed4) EN 60601-1-2:2015 (ed4)				
22	This device shall only be powered by the approved medical power supply				
23	Cloud based QA software for DICOM Calibration				
24	Accessories: 1x DisplayPort video cable 1x USB cable 1x printed User Guide (English) 1x system disc, containing QAWeb software and translations of the User Guide 1x external power supply for MDRC-2324 versions (xxEx) only				
C	Scope Of Work				
1	To Supply , install , configure, commission, test and train for the hardware and software of Radiology reporting workstation				
2	Mapping and integration of the clients (workstations) with existing TMH PACS.				
3	Roles and responsibilities of TMH and vendor expected.				
4	Compliances and Quality standards followed.				
5	Escalation path and governance structure of your organization				
6	Each Workstation should have a UPS MINIMUM BACKUP 10 MINUTES included in quote				
7	Network Cables - Cat 6e for each workstation with LAN I/O point				

8	Essential accessories (List down essential accessories to carry out certain functions but comes at an extra cost. Prices to be quoted separately)				
9	Essential Spares: Please list down the spare parts which requires to be changed during Preventive/ Break down maintenance:				
10	Regulatory Approvals, If any. Details with copies of approvals.				
11	User's list: A list of installations with the address and contact numbers to be provided. (User list should be for the quoted model.)				
12	Multiple Models: If more than one model is offered, then they are to be separately filled and submitted according to the given format.				
13	<u>Input power supply requirements: 240 V AC ± 10 %, 50 Hz, single phase. Specify if any other power supply requirement is recommended.</u>				
14	After Sales Service Support.				
15	1. Complete operational manuals and technical information including circuit diagrams should be provided. 2. Company should provide technical support for hardware and software, spares and consumables. 3. Company should provide required spares and consumables for at least 7 years even after discontinuation of the model. 4. Bidders who do not qualify this criteria shall not be considered. Bidder should provide address of the authorized service centre and details of number of personnel with training credentials.				
16	Preinstallation Requirements :- Provide details of preinstallation requirements, special ambient conditions, if any, space requirement, any other special needs.				
17	Installation, Commissioning, testing and Training				
18	Unpacking and Shifting the consignment to the installation site is to be included in the scope of supply. Bidder/manufacturer/authorized service provider should take responsibility to lift/shift the consignment from unloading site to the installation site . Unloading site shall be "Stores Department, Tata Memorial Hospital Campus". If needed, Bidder has to arrange for the labourers at no charge to TMH. (Before submitting the quotation, bidders may visit TMH to know unloading site and installation site)				
19	Installation, Commissioning and Training is included in the scope of supply. Bidder, Manufacturer and/or its authorized representative should undertake installation and commissioning of the equipment.				
20	Complete system should be installed, tested for its performance as per manufacturer's SOP/guidelines and demonstrated to the Institute's Users. In depth training should be provided to the Institute's users for maintenance, usage and applications.				
21	<u>Warranty and after sales support</u>				
22	Warranty: 2 years comprehensive-on site- Factory warranty- for entire equipment. All third party major items, accessories/attachment etc. integrated with the system should also cover 2 years -factory warranty from respective manufacturers.				

23	CMC: CMC @ maximum 5% per annum for 5 years on Ex-works cost after warranty / CMC @ maximum 2% per annum for 5 year on Ex-works cost after warranty				
24	Uptime guarantee during warranty period and CMC : Bidder should specify the uptime guarantee offered during the warranty and CMC period.				
25	Quote optionally for the following items: (Price should be separately quoted in the financial bid)				
26	List of all optionally available accessories				
	Important terms to be noted by the bidders:				
	<u>Read the above scope of supply carefully and quote accordingly. Incomplete and /or partially complete offers are liable to be rejected.</u>				
1	Manufacturer/bidder should clearly indicate typical life span / Life expectancy of the quoted equipment.				
2	Mention typical site requirements for the installation.				
3	Mention the time required to install the system.				
4	Quote separately for all models meeting the described technical specifications including the latest model.				
5	Bidders should clearly mention about compliance of the warranty and AMC/free service terms in the technical bid. Bids not fully complying to the warranty and AMC/free service terms are liable to be rejected.				
6	Item/Equipment quoted should not be a second hand /refurbished/ on verge of obsolescence/outdated model. Similarly, after award of contract, the item supplied should be a newly manufactured item and not the old item already manufactured and stocked for more than 1 month.				
7	After opening of the Technical bid (Part-1), Physical demonstration of the quoted model may have to be shown / arranged by the bidder, if requested by the Institute. Physical demonstration may be shown at one of the end user's site/Principle company's application lab/manufacturing site located in Mumbai/Navi Mumbai/Thane cities. If there are no installations of the quoted model in Mumbai/Navi Mumbai/Thane cities, then the quoted model may have to be brought in atTMH for demo purpose within 10 days from the date of request. Physical Demonstration may be requested to confirm the availability of any or all technical features as mentioned/stated in the technical bid. Physical Demonstration will also be a part of technical evaluation process. If the bidder does not comply, such bids are liable to be disqualified. (Demonstration of quoted model is to be shown and not the demonstration of similar models with different technical specifications and features)				
8	Past experience of the bidders in terms of quality of supplied equipments, after sales service and application support will be taken into consideration while technical evaluation.. Bidders who has unsatisfactory past experience in last 2-3 years, in terms of quality of supplied equipments, after sales service and application support, bids of such bidders may liable to be rejected.				

9	Complete and detailed information should be provided in respect to each point specified in the specifications. Technical bids that are incomplete in any respect are liable to be rejected. Provide relevant supportive information, publications, catalogue, etc. Bidders providing misleading or wrong information are liable to be rejected. All technical claims should be printed in the technical brochure of the equipment.				
10	If any contradictory statements /figures/information is observed in the compliance chart and in the technical bid, then the technical information mentioned in the product literature/brochure will be considered true and further evaluation will be done based on the information given in the product literature/brochure.				
11	Compliance column may be filled with relevant data, figures, range etc. as applicable. Do not just mention "YES / NO / Complied ".				
12	Declaration by the bidder				
13	We have quoted for all the items meeting the description/scope of supply in the Financial bid as per prescribed format of the Tender documents and we agree that Partial/incomplete offers are liable for rejection.				
<p>1) If 5 years onsite comprehensive warranty, CMC @ maximum 5% per annum for 5 years on Ex-works cost after warranty and buyback conditions wherever applicable, if not adhered to, TMC reserves right to reject offer.</p>					
<p>2) Please mention whether UPS / Stabilizer is required for the equipment. If so, should be included in the offer.</p>					
<p>3) Only yes or no should be mentioned in the compliance report and additional info in remarks column.</p>					