

E-TENDER DOCUMENT

FOR

**SELECTION OF SERVICE PROVIDER FOR
RADIOLOGY INFORMATION SYSTEM**

**(PACS) PICTURE ARCHIVING &
COMMUNICATION SYSTEM AND TELE
RADIOLOGY SOFTWARE SOLUTIONS ON
SOFTWARE-AS-A-SERVICE (SAAS) MODEL *Date*
*30.06.2024***

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TECHNICAL SPECIFICATIONS

DETAILED TECHNICAL SPECIFICATION OF THE REQUIRED SOLUTION AND RELATED SERVICES

S.No.	Description of Item	Compliance		Remarks
		Yes	No	
A	SCOPE OF WORK			
	Tele radiology Software Requirements			
1	HIPAA Compliance: Compliance with the Health Insurance Portability and Accountability Act (HIPAA) is essential to protect patient privacy and maintain the security of electronic health information.			
2	DICOM Support: The Digital Imaging and Communications in Medicine (DICOM) standard is used for the storage and exchange of medical images and associated information. Teleradiology software should support DICOM to ensure compatibility with medical imaging equipment's and is compatible with a wide range of medical imaging modalities (X-ray, CT, MRI, etc.).			
3	PACS Integration: Integration with Picture Archiving and Communication Systems (PACS) is crucial for seamless image storage, retrieval, and management. The software should be able to communicate with PACS servers for image storage and retrieval.			
4	High-Quality Image Transmission: Ensure that the software can transmit high-quality medical images with minimal loss of detail and in a timely manner, especially in cases of large data sets like CT scans or MRIs over the internet.			
5	Security: Implement strong encryption protocols (e.g., TLS/SSL) to secure data transmission and storage. Access controls and user authentication are essential to protect patient data.			
6	Authentication and Authorization: Implement robust user authentication and authorization mechanisms to control access to patient data and ensure that only authorized personnel can view and interpret images.			
7	User Management: Develop an intuitive and user-friendly interface for radiologists, referring physicians and administrative staffs to view, manipulate, and annotate images. The interface should support various image formats and provide tools for measurements and annotations. User access can be controlled based on their roles and profiles.			
8	Interoperability: Integration with the electronic health record (EHR) systems. Compatibility with other healthcare software and systems. Standardized communication protocols for data exchange.			
9	Cross-Platform Compatibility: The software must be web based and should be accessible across different devices and platforms, such as desktop computers, tablets, and smartphones, to allow radiologists to work from anywhere and must have zero footprint.			
10	Reporting and Documentation: Include features for creating and exporting radiology reports. Radiologists should be able to generate detailed reports and share them with referring physicians and patients.			

11	Workflow Optimization: Streamline the radiology workflow by incorporating features like voice recognition for dictation, template-based reporting, and integration with electronic health records (EHR) systems.			
12	Quality Assurance Tools: Implement tools for quality control and assurance, including the ability to compare current images with prior studies for tracking changes over time.			
13	Collaboration and Communication: Enable real-time communication and collaboration between radiologists, referring physicians, and healthcare facilities. This may include secure messaging, video conferencing, and the ability to share findings and insights.			
14	Audit Trails: Maintain detailed audit logs to track user activity within the system, ensuring accountability and compliance. Have User profiles and role-based access control. User-friendly interface for radiologists, referring physicians, and administrative staff.			
15	Scalability: Ensure that the software can handle a growing volume of image data and user connections as the teleradiology practice expands.			
16	Redundancy and Backup: Implement redundancy and backup mechanisms to ensure data availability and minimized downtime in case of server failures.			
17	Regulatory Compliance: Stay up to date with the evolving healthcare regulations and standards, including those related to teleradiology, and adapt the software accordingly.			
18	Technical Support and Maintenance: Provide ongoing technical support and maintenance to address issues, update the software, and ensure it remains compliant with industry standards and regulations.			
19	Billing/Pricing: Pricing for each study can be given independent of modality, no centre and the reporting radiologist. Provision to generate invoices for reported radiologists and centers based on that.			
20	The Bidders shall ensure that the proposed solution includes open interfaces with standard APIs to integrate with other solutions			