



Running Contract Details	
Equipment Name	Digital Upgradability of X-Ray Machine
Running Contract Valid Till	28-04-2026
Tender Ref No	KMSCL/EP/T519(R)/1072/2023
Tendered Quantity	50
Supplier Name	M/s Kirloskar Technologies Private Limited
GST No	07AABCK4267H1ZI
Installation & Delivery Period	8 Week(s)
Up-time / PM vist	95% & 4 Visits per year
Warranty period	3 Years

Supplier`s Details		
Address	Contact Details	
B 58 First Floor Defence Colony Bhisham Pitamah Marg New Delhi-110024	Contact Person	Ram Chander Sah
	Phone	41403967/43523125
	Mobile No	9313644211
	Email	mktg@kirloskarmedical.com

Item-wise Price Details				
#	Item Details	Unit Rate (Incl.all taxes & charges)	Service Charges (Through KMSCL)	Grand Total
1	Digital Upgradability of X-Ray Machine <i>Model & Make : GR40CW/Samsung Electronics Co Ltd</i>	2356175.36 Incl.GST :12%	173767.93	2529943.29
2	Cost of additional detector	2016000 Incl.GST :12%	148680	2164680
3	Dry Imager	72800 Incl.GST :12%	5369	78169
4	UPS	27494 Incl.GST :18%	1924.58	29418.58
5	Cost of Film - 35 cm x 43 cm or (14â€•-17â€•) Year 1	100.13 Incl.GST :12%	7.38	107.51
6	Cost of Film - 24 cm x 30 cm or (10â€•-12â€•) Year 1	57.34 Incl.GST :12%	4.23	61.57
7	Cost of Film - 18 cm x 24 cm or (8â€•-10â€•) Year 1	40.99 Incl.GST :12%	3.02	44.01

Item-wise Price Details							
8	Cost of Film - 35 cm x 43 cm or (14â€•-17â€•) Year 2	100.13 Incl.GST :12%	7.38	107.51			
9	Cost of Film - 24 cm x 30 cm or (10â€•-12â€•) Year 2	57.34 Incl.GST :12%	4.23	61.57			
10	Cost of Film - 18 cm x 24 cm or (8â€•-10â€•) Year 2	40.99 Incl.GST :12%	3.02	44.01			
11	Cost of Film - 35 cm x 43 cm or (14â€•-17â€•) Year 3	100.13 Incl.GST :12%	7.38	107.51			
12	Cost of Film - 24 cm x 30 cm or (10â€•-12â€•) Year 3	57.34 Incl.GST :12%	4.23	61.57			
13	Cost of Film - 18 cm x 24 cm or (8â€•-10â€•) Year 3	40.54 Incl.GST :12%	2.99	43.53			
		4473064.29	329785.39	4802849.68			
Annual / Comprehensive Maintenance Charges (Exl.Tax)							
Rate	4 th Year	5 th Year	6 th Year	7 th Year	8 th Year	9 th Year	10 th Year
Digital Upgradability of X-Ray Machine							
Labour	51,000.00	51,000.00	51,000.00	51,000.00	51,000.00	51,000.00	51,000.00
Comprehensive	2,00,000.00	2,00,000.00	2,00,000.00	2,00,000.00	2,00,000.00	2,00,000.00	2,00,000.00

Other terms & conditions

1. The supplier shall execute an agreement with the purchaser as per tender conditions (agreement format is given in the tender document).
2. The supplier shall submit performance security amounting to 5.00% of the value of the supply order.
3. The labour & comprehensive charges of equipment after the completion of warranty period is finalized by KMSCL as mentioned above.
4. Since discount rate is not applicable for equipment under Running Contract of KMSCL, purchase/supply order can be issued directly to supplier at the given rate with tax & other charges (exclusive of KMSCL service charges).
5. If purchase/supply order is issued directly to the supplier, KMSCL service charge need not be paid. But the copy of the said order may be forwarded to KMSCL for information.

Technical Specification

Equipment :Digital Upgradability of X-Ray Machine

Equipment:Upgradability of X-Ray Machine (Retrofit DR)

1. The system should be compatible for General Radiography.

2. Should have the capability to convert existing analog X Ray system to a digital radiography (DR) system and should be fits with the existing equipment, table and Chest stand without any modifications/minor modifications.
3. The detector system should capture x-rays and transmit images wirelessly to the console for review in approximately less than 5 seconds.
4. There should be a possibility to connect up to a minimum of 2 detectors per system console.
5. Detector should be of minimum of 35 X 43 cms (14x17inch) size and weight should be less than 3.5kg.
6. Detector should have sensor protection and should have ingress protection rating of minimum of IP54 (Solid, Dust and water) or more. Should have minimum distributed weight bearing capacity of 170 Kg or more and should have point load capacity of 110 kg or more, without using any additional cover/protection. Should have inbuilt shock logging mechanism. The detector should have high shock tolerance of more than 800 G..
7. Detector should have removable batteries and suitable battery chargers should be provided and a minimum of 2 batteries to be provided along with detector. Detector battery should have approved by BIS. Certificate for the same should be furnished.
8. Detector should have Detective Quantum Efficiency (DQE) of 70% or more.
9. Detector should have resolution pixel size of 150 microns or less.
10. Should have Cesium Iodide (CsI) Scintillator
11. Detector should have beam detection technology or equivalent technology which does not require any wired connection with generator and should be able to use with existing grids.
12. Should have at least a 19" LCD/TFT display to view images of resolution 1kX1k.
13. Should be possible to take print outs directly. Mechanism for printing Multiple Images in one film, with the possibility of slide and true size printing.
14. Should have a protocol for verifying the connectivity status of configured image destinations.
15. Should have Customizable Graphic User Interface.
16. Should be capable to store more than 5000 images.
17. Indication of Over Exposure on the preview module.
18. Capability of interfacing to HL7, Non-HL7, Proprietary, DICOM Work list or user defined Windows/DOS /Linux based interface protocols to HIS/RIS.
19. Customizable Graphic User Interface (GUI) in Identification station with facility of selecting DICOM print & Storage destination.
20. Mechanism for User release from Preview terminal in case of Auto-routing Images to Pre-defined DICOM Destinations.
21. Solution for storing patient demographic data for multiple exams in RIS/non RIS environment.
22. It should be possible to put a custom configurable data field in the demographic information of the patient linked with the image.
23. Should have DVD writer.
24. Various image-processing protocols should be available for the respective regions of the body.
25. Built in routine for using predefined image processing parameters for image quality enhancement.
26. Mechanism for storing the Patient image based on name, date, exam, etc.
27. Capability of storing user defined image processing parameters.
28. Capability of overwriting predefined image parameter with user-defined parameters & storing these two images separately.
29. Capability of changing W/L, Flipping, Rotating, Zooming, Collimating Annotating incoming image.
30. Suitable table for the entire system shall be provided.
31. The detector should have facility to display Wi-Fi signal strength and battery power.
32. If the detector have capacity to use with mobile X-ray system along with a laptop or tablet then the rate shall be offered separately.

II. Dry Imager System

1. Should be a dry image printer with a resolution of 500 dpi or more.
2. Should have a gray scale resolution of at least 14 bits.
3. Capable of Printing Images in DICOM 3.0 format or newer version.
4. Should have at least two online universal trays and have mechanism to print images of all standard film sizes used in General Radiography.
5. The rate for films to be offered for 3 years and the rate offered will be taken for evaluation.
6. Should be supplied with 5 packets of 10" X 8" size film packets while installation.

III. Others

1. Should supply an ON-LINE pure sine UPS of suitable capacity with minimum 30 minutes' battery backup for the entire system.
2. Should operate on mains 220-240Vac, 50 Hz single phase.
3. Should have safety certificate from a competent authority CE issued by a notified body registered in European commission /

FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid.

4. The Flat Panel detector and Dry imager supplied should have three years comprehensive warranty. Any defect in Detector shall be replaced at free of cost during the warranty period and CMC period. In case of any dispute in replacement, the decision of Tender Inviting Authority shall be the final. Manufactures should provide safety cover/holder to protect damages from mishandling/misuse.

Note:

1. If CDSCO (Central Drugs Standard Control Organization) certification is required for the import and marketing of the equipment, then the same shall be submitted along with the technical bid
2. Warranty exclusions if any shall be discussed at the time of prebid meeting else the tender condition as per clause 6.31.20 shall prevail