



C O R R I G E N D U M

In light of the representation(s) submitted by the prospective bidder(s) thereof for the procurement of "Full Body MRI Machine System 1.5 Tesla" under Group "Machinery & Equipments" uploaded vide No. JKMSCL/ Mach/2025/657 dated 01.03.2025, the amendments in the technical specifications as recommended by the technical experts are mentioned below as:

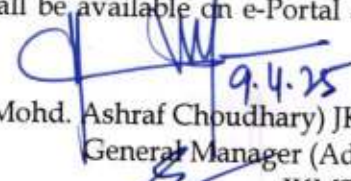
S.No.	Existing Specifications	Ammendments made thereof.
1.	Magnet It should have atleast 70 cm patient bore with flared opening	No Change
2.	GRADIENT SYSTEM Actively shielded Gradient system The gradient should be actively shielded with each axis having independently a slew rate of atleast 200 T/m/s and a peak amplitude of 33mT/m.	GRADIENT SYSTEM Actively shielded Gradient system The gradient should be actively shielded with each axis having independently a slew rate of atleast 200 T/m/s and a peak amplitude of 44 mT/m.
3.	It should also have atleast 32 independent RF receiver channels with each having band width of 1MHz or more along with necessary hardware to support quadrature ICP array/Matrix coils	No Change
2.		Dedicated coils to be quoted separately. The price shall be freezed, in case it is required by the enduser. The rates shall be calculated for ascertaining L1 bidder.
3.	Delivery Period shall be 90 days for Indian Items and 180 days for Imported items	Supply, Installation and Commissioning for main equipment along with local accessories to be completed within 120 days from opening of irrevocable & confirmed foreign LC & clear site handover with permanent power/water availability.

The critical dates are extended with the approval of tender inviting authority. The critical dates are as under:

1. Last date and time for submission of online bids: 21.04.2025 upto 1600 hrs
2. Date and time for online opening of technical bids: 23.04.2024 at 1100 hrs

Please Note:

1. Those firms/bidders who have already uploaded their bids are required to re-upload their bids as per amendments and corrigendum issued thereof.
2. All the bidders are requested to keep themselves updated & submit their e-bids through e-portal as per specifications & BOQs. The amendments/modifications shall be available on e-Portal and www.jkmsclbusiness.com.


(Mohd. Ashraf Choudhary) JKAS
General Manager (Adm),
JKMSCL.

No.: JKMSCL/Corg/2025/ 265-67

Copy for information to the:-

1. General Manager-(K), JKMSCL.
2. Dy.General Manager (T& L), JKMSCL.
3. P.A to Managing Director, JKMSCL for the information of Managing Director.
4. File

Dated: 9 .04.2025.



JAMMU AND KASHMIR MEDICAL SUPPLIES CORPORATION LTD.

(Public Sector Undertaking of the Government of Jammu and Kashmir)

Corporate Head Office: Corporate Head Office: Plot No. 58, Friends Colony Satyam Road Trikuta Nagar Jammu

Corporate Office: Kashmir, Near Haj House, Bemina 190018, Srinagar

email: mdjkmscl2@gmail.com; website: www.jkmsclbuisness.com

C O R R I G E N D U M

In light of the representation(s) submitted by the prospective bidder(s) thereof for the procurement of "Full Body MRI Machine System 1.5 Tesla" under Group "Machinery & Equipments" uploaded vide No. JKMSCL/ Mach/2025/657 dated 01.03.2025, the amendments in the technical specifications as recommended by the technical experts are mentioned below as:

S.No.	Existing Specifications	Please Read as.
1.	<p>TECHNICAL CHARACTERISTICS:</p> <p>1. MAGNET Whole Body 1.5 Tesla Magnetic Resonance Imaging System optimized for higher performance in Whole Body and Vascular examinations with super conducting magnet, high performance gradients and digital Radio Frequency System.</p> <p>b. 1.5 T active shielded super conductive magnet should be short and non-claustrophobic.</p> <p>c. It should have atleast 70cm patient bore with flared opening.</p> <p>d. Magnet length should be less than 200 cm.</p> <p>e. Homogeneity of magnet should be less than 3.5 ppm over 45 cm DSV The magnet should be well ventilated and illuminated with built in 2 way inter comfort communication with patient.</p> <p>g. It should have a built in cryo-cooler such that helium consumption does not exceed 0.01 lit/hour.</p> <p>h. Emergency Run down Control at both operator console room and Gantry Room is a must.</p> <p>i. Fringe Field 0.5 Gauss line radius is essential.</p> <p>j. Front Panel of gantry should display table and patient position.</p> <p>2. SHIM SYSTEM a. High performance, highly stable shim system with global and localized automated shimming for high homogeneity magnetic field for imaging and spectroscopy.</p> <p>b. Auto shim should be available to shim the magnet with patient in position.</p> <p>3. GRADIENT SYSTEM Actively shielded Gradient system The gradient should be actively shielded with each axis having independently a slew rate of atleast 200 T/m/s and a peak amplitude of 33mT/m.</p> <p>c. The system should have efficient and adequate Eddy current compensation</p> <p>d. Effective cooling system for gradient coil and power supply</p> <p>e. Duty Cycle-100% the gradient power amplifier.</p> <p>f. Usable over 45 cm of FOV in all directions.</p> <p>4. RF SYSTEM A fully digital RF system capable of transmitting power of at least 15 kw. It should also have atleast 32 independent RF receiver channels with each having band width of 1MHz or more along with necessary hardware to support quadrature ICP array/Matrix coils.c. It should</p>	<p>TECHNICAL CHARACTERISTICS:</p> <p>1. MAGNET a. Whole Body 1.5Tesla Magnetic Resonance Imaging System optimized for higher performance in Whole Body and Vascular examinations with superconducting magnet, high performance gradients and digital Radio Frequency System.</p> <p>b. 1.5T active shielded super conductive magnet should be short and non- claustrophobic.</p> <p>c. It should have at least 70 cm patient bore with flared opening.</p> <p>d. Magnet length should be less than 200cm.</p> <p>e. Homogeneity of magnet should be less than 3.5 ppm over 45cm DSV</p> <p>f. The magnet should be well ventilated and illuminated with built in 2 way intercom for communication with patient.</p> <p>g. It should have a built in cryo-cooler such that helium consumption does not exceed 0.01 lit/ hour.</p> <p>h. Emergency Rundown Control at both operator console room and Gantry Room is a must.</p> <p>i. Fringe Field 0.5 Gauss line radius is essential.</p> <p>j. Front Panel of gantry should display table and patient position.</p> <p>2. SHIM SYSTEM a. High performance, highly stable shim system with global and localized automated shimming for high homogeneity magnetic field for imaging and spectroscopy.</p> <p>b. Auto shim should be available to shim the magnet with patient in position.</p> <p>3. GRADIENT SYSTEM a. Actively shielded Gradient system b. The gradient should be actively shielded with each axis having independently a slew rate of at least 200 T/m/s and a peak amplitude of 44mT/m.</p> <p>c. The system should have efficient and adequate Eddy current compensation</p> <p>d. Effective cooling system for gradient coil and power supply</p> <p>e. Duty Cycle- 100% the gradient power amplifier.</p> <p>f. Usable over 45 cm of FOV in all directions.</p> <p>4. RF SYSTEM a. A fully digital RF system capable of transmitting power of at least 15kw.</p> <p>b. It should also have at least 32 independent RF</p>

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receiver channels with each having bandwidth of 1 MHz or more along with necessary hardware to support quadrature ICP array/Matrix coils. The highest receiver channels available with the vendor should be quoted.

c. It should support Parallel acquisition techniques with a factor of up to 4 in 2D.

d. Should allow remote selection of coils and / or coil elements.

5. PATIENT TABLE

a. The table should be fully motorized, computer controlled table movements in vertical and horizontal directions.

b. A CCTV system with colour LCD display to observe the patient should be provided:

Moving table angiography should be possible.

c. There should be a hand held alarm for patients

d. Light Localizer for patient positioning.

e. Physiological signals display like ECG, Pulse and SPO₂

f. Patient load bearing capacity, minimum 200 Kg.

6. MEASUREMENT SYSTEM

a. Largest Field of View should be at least 45 cm in all axis.

b. The measurement matrix should be from 128x128 to 1024x1024.

c. Minimum 2D slice thickness mm should be equal to or less than 0.5

d. Minimum 3D slice thickness mm should be equal to or less than 0.1

7. COIL SYSTEM

a. The main body coil integrated to the magnet must be Quadrature / CP. In addition to this following coils should be provided:

b. Multichannel Head coils with at least 12 channel for high resolution brain imaging.

c. Neuro-vascular Coil with 16 or more channels or Head / Neck Coil combined, capable of high resolution neuro-vascular imaging

d. 18 Channel Spine Array/Matrix Coils for thoracic and lumbar spine imaging.

e. Body Array/Matrix coil with at least 40 cm z axis coverage for imaging of abdomen, angiograms and heart with 32 channel.

f. Suitable Cardiac Coil

g. Dedicated 8 channel extremity coil.

h. Bilateral Breast Coil with at least 4 channel with fully functional spectroscopy.

i. Dedicated Shoulder Coil with atleast 8 channels

j. Dedicated Knee Coil with atleast 8 channels

k. General purpose flexible coil with small and large size

l. Coil Storage Cart from manufacturer.

m. The system should continuously monitor the RF coils used during scanning to detect failure modes.

RF coils should not require either set up time or coil

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tuning; Multi coil connection for up to 2 or more coils simultaneous scanning without patient repositioning.

8. APPLICATION SEQUENCES

a. The system should have basic sequences package with Spin Echo, InversionRecovery, Turbo Spin Echo with high turbo factor of 256 or more, Gradient Echo with ETL of 255 or more, FLAIR.

b. Single slice, multiple single slice, multiple slice, multiple stacks, radial stacks and 3D acquisitions for all applications.

c. Single and Multi shot EPI imaging techniques with ETL factor of 255 or more

d. Fat suppression for high quality images both STIR and SPIR.

e. The system should acquire motion artifact free images in T2 studies of brain in restless patients.

f. Dynamic study for pre and post contrast scans and time intensity studies

g. MR angio Imaging: Should have 20/30 TOF, 20/30 PC , MTS and TONE, ceMRA, Facilities for Accelerated time resolved vascular imaging with applications like Treats/Tracks/Tricks sequences.

h. Fat and water excitation package. Diffusion Weighted Imaging, with at least b value of 5000 or more.

i. Bolus chasing with automatic and manual triggering from fluoro mode to 3D acquisition mode with moving table facility.

j. Non contrast enhanced peripheral angiography for arterial flow with Native/Trance/Inhance sequences

k. Whole body screening imaging studies for metastasis

l. High resolution Abdominal and Liver imaging in breathold and free breathing modes with respirator triggered volume acquisitions

m. The system should have basic and advanced MRCP packages including free breathing and 3D techniques.

n. The system should have facility for flow quantification of CSF, vessel flow and hepatobiliary system.

o. The system should have the Hydrogen, Single Voxel spectroscopy, Multivoxel, Multislice & Multiangle 2D, 3D Spectroscopy and Chemical shift imaging in 2D/3D. The complete processing/post-processing software including color metabolite maps should be available on main console. Complete prostate spectroscopy hardware and applications should be provided.

p. Advanced Cardiac Applications:

VCG gating, Morphology/wall motion; Cine perfusion imaging; Myocardial viability imaging; Arrhythmia rejection techniques, Advanced Cardiac Ventricular Measurement Analysis; Cine Cardiac Tagging Techniques; Coronary artery techniques; real time interactive imaging, 20/30 fast field



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	<p>echo/balanced/steady state techniques and evaluation package on workstation</p> <p>q. Advanced Breast imaging Package.</p> <p>r. Perfusion imaging of brain (including PASL and CASL)</p> <p>s. Susceptibility weighted imaging with phase information.</p> <p>t. Multi Direction DWI and DTI with minimum of 32 directions(Complete package including quantification and tractography software). Prospective motion correction enabled software preferred.</p> <p>u. High resolution imaging for inner ear.</p> <p>10. SAFETY FEATURES</p> <p>a. The magnet system should include an Emergency Ramp Down unit (ERDU) for fast reduction of the magnetic field with Ramp Down time below 3 minutes</p> <p>b. The magnet should have quench bands that contain the fringe fields to a specified value in the event of a magnet quench</p> <p>c. Real time SAR calculation should be performed by software to ensure that RF power levels comply with regulatory guidelines and are displayed on each image</p> <p>d. The system shall have manual override of the motor drive for quick removal of the patients from the magnet bore</p> <p>e. Temperature sensor (built in) for magnet refrigeration efficiency must be provided</p>
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The critical dates are extended with the approval of tender inviting authority. The critical dates are as under:

1. Last date and time for submission of online bids: 21.04.2025 upto 1600 hrs
2. Date and time for online opening of technical bids: 23.04.2024 at 1100 hrs

Please Note:

3. Those firms/bidders who have already uploaded their bids are required to re-upload their bids as per amendments and corrigendum issued thereof.
4. All the bidders are requested to keep themselves updated & submit their e-bids through e-portal as per specifications & BOQs. The amendments/modifications shall be available on e-Portal and www.jkmsclbusiness.com.

Sd/
(Mohd. Ashraf Choudhary) JKAS
General Manager (Adm),
JKMSCL.

No.: JKMSCL/Corg/2025/265-67

Copy for information to:-

1. General Manager-(K), JKMSCL.
2. Dy.General Manager (T& L), JKMSCL.
3. P.A to Managing Director, JKMSCL for the information of Managing Director.
4. File

Dated: 9.04.2025.



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Corporate Office: Kashmir, Near Haj House, Bemina 190018, Srinagar

email: mdjkmssl2@gmail.com; website: www.jkmsslbusiness.com

AMMENDMENT

Subject : CLIENT BASE CLAUSE IN THE TENDERS FLOATED BY JKMSCL.

In the fitness of things, henceforth the client base clause in the tenders floated by the JKMSCL and are yet to be opened, the clause for the client base/past performance shall be read as under:

S.No.	Existing clause as per NITs	Amendment be read as
1.	Client Base of the Bidder/Manufacturer/Indian Subsidiary of Principal Manufacturer with reference of the supply orders, for any of three years in last five years along with satisfactory performance certificate of <u>minimum one Purchase Order and installation report of Govt. Institution.</u> (Copies of reference supply orders and satisfactory performance certificate need to be attached)}	Client Base of the Bidder/Manufacturer/Indian Subsidiary of Principal Manufacturer with reference of the supply orders, for any of <u>three financial years in last five years</u> along with satisfactory performance certificate of <u>minimum one Purchase Order and installation report of Govt. Institution.</u> (Copies of reference supply orders and satisfactory performance certificate need to be attached)}
		Please read the amendment for Annexure V as well as all the relevant clauses wherever stated in the tender document.

Please Note:

1. The amendment shall also be applicable to all the forthcoming tenders.
2. Those firms/bidders who have already uploaded their bids are required to re-upload their bids as per amendments and corrigendum issued thereof.

(Mohd. Ashraf Choudhary) JKAS
General Manager (Adm.), JKMSCL.

No.: JKMSCL/Corg/2025/14037-42

Dated: 07.03.2025.

Copy for information to the:-

1. Financial Advisor & Chief Accounts Officer, JKMSCL
2. General Manager-(K), JKMSCL.
3. Dy. General Manager (T & Legal), JKMSCL.
4. P.A to Managing Director, JKMSCL for the information of Managing Director.
5. All Dealing Assistant to incorporate the clause in the forthcoming NITs.
6. Assistant Programmer, JKMSCL with the directions to upload the amendment on web portal in all the NITs published as on date.
7. File.