JKMSCL

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: jkmscljepm@gmail.com; **website:** www.jkmsclbuisness.com

CORRIGENDUM

In light of the decisions taken by the Technical Expert(s) with reference to the pre-bid meeting for the representation(s) submitted by the prospective bidder(s), the amendments/incorporations have been made in the tender document for the procurement of **"Machinery & Equipments"** required under Bone & Joint Hospital, GMC Jammu uploaded on GeM portal. The amendments in the technical specifications as recommended by the technical experts are appended herewith as **Annexure I.**

The Critical dates are as under:

1. Last date and time for submission of online bids: 24.03.2022 upto 1100 hrs
2. Date and time for online opening of technical bids: 24.03.2022 at 1600 hrs

Rest of the specifications & conditions of bid other than mentioned in Annexure I shall remain unchanged.

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 bids through e-portal as per specifications & BOQs. The amendments/modifications shall be available on e.portal www.jktenders.gov.in and www.jkmsclbusiness.com.

Encl : 12 lvs

14.3.22
General Manager (Adm),
JKMSCL

No.: JKMSCL/Corg/2022/ 5117-19 Dated: 14.03.2022

Copy for information to the:-

1. Managing Director, JKMSCL.
2. General Manager-K (P&S, I.T), JKMSCL.
3. I/C website to upload the amendments on www.jkmsclbusiness.com and GeM portal.

OT Light System

S.No	Item	Technical Specification	Qty.
01.	OT Light System	1. The Lights should have LED light engines in which the mixing of the various LED lights should take place inside the engines itself which should prevent the casting of color shadows active shadow management). 2. Should be LED based microprocessor control technology 3. One major dome and one satellite dome. 4. Dome body should be of single piece and should have provision for air circulation. 5. Intensity at 1-meter distance 1,50,000 to 1,60,000 lux for both major dome and the satellite dome. 6. Should have variable Colour Temperature: 3500-5500 K. 7. Having on off switch and light intensity control on light dome 8. Homogenous luminous field with lowest possible amount of shadow. 9. The contrast between the lighted area and the surrounding should not cause stress to the surgeon's eye. 10. Depth of illumination should be 100-140 cms. or more for main & satellite dome. 11. Illuminated field diameter should be approx. 20-30 cms. 12. Colour rendering index (CRI) should be 93 – 98. 13. Height adjustment more than 1 meter. Intensity & focus should be constant between 0.8 to 1.3 meter. 14. LED life span 50000 or more Hrs. 15. Light field adjustment by sterilizable handles (2 sets). 16. Control panels on the light assembly as well as away from it for adjustment of light intensity, illuminated area and for switching on and off, focusing etc 17. The light head should be so constructed as to provide optimum conditions for laminar flow. 18. User selectable intensity variation with digital display from 30 to 100% in 6 or more steps" 19. At least three light system should have a HDR Camera in Centre. 20. It should have a back light or ENDO mode to allow appropriate visibility of the screen. The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90% a) The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90% b) Power input: 220-240V/ 50 Hz AC Single phase fitted with appropriate Indian plugs and sockets. c) Electronic Voltage corrector/stabilizer of appropriate ratings meeting BIS Standards/Specifications.(Input 160-260 V and output 220-240 V and 50 Hz) d) Electrical safety conforms to standards for electrical safety IEC 60601-1 General Requirements e) Shall meet internationally recognised standard for Electro Magnetic Compatibility (EMC) for electromedical equipment: IEC-60601-1-2 :latest edition or should comply with 89/366/EEC; EMC-directive as amended f) Certified to be compliant with IEC 60601-2-41: Particular requirements for the safety of Operation Theatre Light or equivalent if applicable. g) Equipment should have US FDA and European CE approved /certified.	08

5/3/22

Suction Machine (High Vacuum)	
	Specification:-
1	High vacuum suction unit, run on electricity with two section jars of 4-5 liters capacity each. Jars should be made of unbreakable Polysulfone with autoclavable lids
2	Auto cut of device of preventing entry of fluid in pump.
3	Fast and efficient jar change facility.
4	Easy access and controls
5	It should be heavy duty and noiseless, with piston/cylinder technology.
6	Should be able to create desired maximum vacuum in least possible time, vacuum should be up to –90 K pascal with variable capacity of 40-60L/min
7	Light and maneuverable fitted on a mobile trolley.
8	One plastic suction jar cover, steam sterilizable to be provided extra.
9	Two extra suction jar (PSU) of capacity 4-5 ltrs. Should be quoted along with accessories like lid, tubing etc. with the equipment to make the unit functional.
10	Quantity certification of the product from international/ Indian Agency should be provided.
11	The firm should clearly indicate in the technical bid itself that the prices of all standard accessories are included in the quoted price.
12	Noise Level should be less than 40dba The firm will give rate list of all possible spares, accessories & consumables if any, as part of financial bid. If price of any spare is not mentioned & is required for repair in life time of equipment/instrument, then the firm will be obliged to give it free throughout life cycle of the equipment.

Should be USFDA and European CE/BSI approved product

1

5/3/22

DVT/VTE PUMP (With Battery)

Technical Specifications

1) The device must be able to provide external pneumatic compression for patients who are assessed to be at risk of DVT.
2) The device must provide choices between filling intermittently/uniformly andfilling sequentially according type of cuff /garment used.
3) Must provide pre-set gradient intermittent compressionsof 40-80 mmHg
4) Must provide following -Inflation/Deflation Time with Cycle Time of 60 seconds

   Inflation: 12 seconds&Deflation:48 second

5) Device pressure should be automatically fixed at 40mmHg for Leg garments.
6) Also device pressure should be adjustable to pressure of 80mmHg for foot garments.
7) Ability to select Single or Double Limb Garment.
8) Must be able to operate even on single leg if required
9) Must have following display with audible and visible alarm prompts for normal working and faults-

   Indicator Light:

   a) Green LED illuminated when power on by AC source; Red LED illuminated when power on by battery.

   b) Amber LED for low pressure (flashing signal), high pressure (continuous signal), continuous pressure (flashing signal), and over pressure (continuous signal).

   c) Blue LED for pressure setting and single garment function.

   Audible Alarm:

   Low pressure, high pressure, continuous pressure and over pressure alarms.

10) Must be supplied with accessory -Rechargeable Lithium Batterypack with following capacity: Nominal 2200mAh, 2150mAh minimum
11) Device must begin to charge battery automatically once pump is plugged to AC power source; should have five battery indicator LEDs which will display to show battery's charging level.
12) Must have aswing outhook to hang the device to bed/trolley sides and also carry handle
13) Must have two distinct snap lockconnection for tubing to garments
14) Must have Connector Tubing – 120 inches long.
15) Sleeves must be made of brushed nylon &poly-foam lined tricot inner backing and must be free of latex.
16) Following two categories of cuff/Garment –
    a. Calf/Thigh/Foot- Cuff thatfills intermittently and uniformly
    b. Calf/Thigh –Cuff that fills sequentially

(3)

5/3/22

Specifications for C Arm High End

2. **System must be USFDA & European CE approved.**

3. Having **ISO** certification

4. The C arm should have rotational movements and all the movements should be counterbalanced.

5. The continuous fluoroscopy, digital pulsed fluoroscopy and digital radiography operating modes are to be supported.

6. Should have technology to produce optimal high quality image even if the region of interest is not in the centre of image intensifier i.e. multiple matrixes.

7. It should be possible to Display dose reporting also.

8. The camera system should be based on maintenance free CCD technology with a digital imaging system for fluoroscopy and radiography, with TV matrix at least 1K2 & digital image rotation of 360 Degrees.

9. Image archiving on USB & DVD (DVD read/write) with it's genuine viewer software and Image storage of at least 10000 or more images is mandatory- give details of storage of 2D images.

10. It must be equipped with latest DICOM interface. (view,store, print, worklist)

11. System should be ready to connect with HIS/PACS.

12. Noise filter with on screen indicator.

13. Entire system should be computer controlled and software upgradable.

14. There should be programs to reduce dose during fluoroscopy. Patient dose should be displayed on the monitor.

15. It should be possible to carry out continuous fluoroscopy for prolonged procedures.

16. Cassette exposures should also be possible.

17. **The C arm should have the following movements:**

a. Motorized Vertical Movement : 40 cm or more

b. Horizontal travel : 20 cm or more

c. Angulation : +90°, -25° degrees or more

d. Orbital movement: 135 degrees or more movement.

e. Source –I.I. distance 95 cm or more

f. Vertical free space- 75 cm or more

g. Beside above give details of depth and swivel angles.

20. **X-ray generator :**

5/3/22

The X-ray generator should use high frequency technology, should be controlled by microprocessor and the output should be 15 kW or more.

Pulse fluoroscopy should be offered as a standard. The output should be as follows:

a. Pulsed Fluoroscopy : 110 kV or more and 40 mA or more

b. Digital Radiography : 110 kV and greater than 75 mA

c. Organ specific user programs should be present

d. Possibility to have various dose options during fluoroscopy

e. Automatic Dose Rate controlling should be done to prevent over exposure. Laser based targeting devices should be present to reduce radiation during centring.

21. **X-ray tube :**

Rotatory anode X-ray tube with dual focal spots. The focal spot size should be 0.3mm or less for small focal spot and 0.6 mm or less for large focal spot. Inherent filtration 3.0 mm AI or better. The tube should have over load protection.

22. **Collimation :**

Iris collimation should be present and it should be possible to operate the collimator without radiation, 180 degree rotation should be possible; Indication for LIH.

23. **Image Intensifier system:**

12 inch image high resolution intensifier with triple field zoom. Image rotation should be possible without giving radiation to the patient. Input screen should be cesium iodide for excellent resolution and minimum noise. Electron optics should allow consistent high resolution across the entire Image field -Give details.

Give details about the grid.

24. **Patient data Management:**

It should be possible to maintain a complete data base of the patient with easy retrieval. It should be possible to make additions or make changes to the patient data at a later stage.

25. **Monitors :**

2 no. medical grade TFT monitors with diagonal size of 19 inch or more. The display should be of 1K matrix with 256 gray shades. Resolution min 1024×1024 or better, wide viewing angle.

26. **Image display:**

It should be possible for having 2 nos. screen displays (give details). Last Image Hold should be standard. Simultaneous display of old and new reference images.

27. **Image Processing :**

a) Manual contrast and brightness adjustment, Edge enhancement, zooming, digital Image rotation, horizontal and vertical flip.

b) Alphanumeric keyboard for entering patient data and for image annotation etc.

c) Digital Shutters.

SK 8/5/22

d) Digital measurement functions for distances & angle measurement (post processing)

e) Annotation should be possible.

f) Save and auto-save feature.

28. The machine should be capable of **real time Digital Subtraction Angiography (DSA)** with the following features:

a) Acquisition frame rate: 25 frames/sec or more

b) Storage rate: 10 fps or more

c) Auto request for contrast injection

d) Roadmap technique for dilatation

e) Pixel shift, variable landmark and remasking should be possible

f) Peak opacification

g) Movie function with START/STOP function

29. Accessories to be supplied-

a) Lead-free light-weighted aprons for radiation protection (all round protection) with 0.5mm lead equivalence certified by BARC/ AERB & ISO – 08.

b) Lead-free light-weighted aprons for radiation protection (front protection) with 0.5mm lead equivalence certified by BARC/ AERB & ISO – 08.

c) Thyroid shields – 08

d) Lead-aprons hanger – 01.

e) Any other required accessory for DSA imaging

f) UPS for full equipment with a minimum 15 minute backup and a voltage stabilizer should be provided.

a) **5 year comprehensive onsite warranty of entire system (Spares and labour) including X-ray tube and all accessories and civil, electrical and air conditioning works followed by 5 year CMC.**

b) Company should confirm the availability of spare parts for 10 years from the date of supply of the equipment.

c) Company should have 24 x 7 call support facility

d) List of spare parts with cost must be provided.

SK 5/5/22

32. Power Supply

a) Power input to be 200-240VAC, 50Hz, Fitted with Indian type plug.

b) Resettable over current breaker/ANY other protection device shall be fitted for protection.

33. A high end MACINTOSH BASED COMPUTER with at least 8 GB RAM, GRAPHICS, with installed GENIUNE VIDEO EDITING SOFTWARE TO RUN AND EDIT DSA IMAGES AND VIDEOS SHOULD BE SUPPLIED, PLUS 2 TB OF EXTERNAL HARD DRIVE (not requiring external power) should be supplied

34. Compliance statement should be presented in a tabulated manner- mentioning the page/para number of original catalogue/data sheet. Any point not substantiated with authenticated catalogue/manual will not be considered.

35. Please make sure to submit copies of all certifications- USFDA/ECE/AERB & ISO + LIST OF INSTALLATIONS in India with performance and after sale service records at time of submission of bids only to save tender processing time.

5/3/22

NAVIGATION System Hip + Knee.

Specifications-Details

A	Platform
1	Navigation system should be easy to set up and should work under Windows/Linux/Unix operating system environment. The system should be plug n play and system software should be user friendly wizard guided to control set up, registration and navigation procedure
2	System should have Optical and advanced wireless passive marker tracking technology
3	The system should have touch-sensitive screen and could be used in sterile field. The display should be of Full HD resolution (1920X1080) with screen size of 21.5 Inch or more.
4	It should have Rapid data transfer directly to the navigation station with USB 3.0 port for direct data import and also have direct and seamless integration with the hospitals PACS system
5	The system must have dynamic referencing so that registration is not lost even if the camera or patient moves.
6	It should have separate mobile cart for the camera stand for flexible positioning and laser pointer for easier positioning & aiming. The mobile stand for the camera should be telescopic with pneumatic braking to take care of line of sight issues
7	It Should be HIPPA compliant including authentication, accountability log and automatic log-off features
8	The navigation system should be operable without keyboard or mouse
9	Optical camera should have a large tracking volume for flexibility in positioning and addressing line-of-sight issues.
10	System should have RAM of 8 GB & 240GB SSD for fast performance
11	System should have high end processor like i5 or equivalent with SSD 240GB, and min 2GB Graphics and more
12	System should have feature of screenshot for documentation
13	System should have video Input and output ports for external device integration e.g. Ultrasound, C-Arm and Microscope

B	Knee Navigation Specifications:
1	The system should have image free Knee navigation application package for knee replacement surgeries.
2	Software should automatically follow the surgeon without any system interaction. Software should have dynamic adaptation to the surgical steps based on automatic tool detection.
3	The navigation software should offer a workflow without implant data so that total Knee replacement implants from reputed manufacturers can easily be used with it. Software should provide information on Varus/Valgus, Resection details, Flexion/extension details in real-time as per selected position.
4	Software should allow surgeon to register patient with acquisition of minimal points with an option to skip additional registration steps like whiteside line and posterior condyles for Femur and Tibial Plateau for Tibia. Accordingly rotational reference information should be available after registration
5	The software should allow the navigated placement of cutting blocks for tibial resection
6	The software should allow the navigated placement of cutting blocks for distal femoral resection
7	The software should allow the navigated placement of cutting blocks for anterior femoral resection
8	The software should allow the verification of all performed resections

(8)

Sh
5/3/22

9	Hip replacement system should also have non-invasive femur reference geometry to ensure that pins are not used in Femur during navigated surgery
10	It should include extended pointer that could enable it to register patients using anatomical landmarks
11	The system should have screenshot storage function for documentation purpose
12	The software should allow the registration of anatomical landmarks on pelvis and femur to reconstruct the relevant anatomy without any influence of additional device like a table
4	System should have min 1 year warranty
5	There should be facilities to upgrade the system to be compatible with PACS system
6	System must have European CE and US FDA Certification

5/3/22

VAC DRESSING

Item Number	Item Title	Item Description	Item Quantity	Unit of Measure
1	Nanocrystalline silver in Knitted polyester mesh dressing with Silcryst technology, 10cm x12.5cm	M&EQ	1	No
2	Nanocrystalline silver in Knitted polyester mesh dressing with Silcryst technology, 10cm x 20cm Pack of 12	M&EQ	1	No
3	Nanocrystalline silver in Knitted polyester mesh dressing with Silcryst technology, , 20cmx 40cm	M&EQ	1	No
4	Nanocrystalline silverin Knitted polyester mesh dressing with Silcryst technology, 40cmx 40cm	M&EQ	1	No
5	Nanocrystalline silver in Knitted polyester mesh dressing with Silcryst technology, 10cmx 120cm	M&EQ	1	No
6	Hydro Cellular Foam with ART Principle PU top Layer with silicon gel, 12.5cm x12.5cm	M&EQ	1	No
7	Hydro Cellular Foam with ART Principle Antibacterial PU top Layer with silicon gel, 17.5cm x17.5cm	M&EQ	1	No
8	Hydro Cellular Foam with ART Principle Antibacterial PU top Layer with silicon gel 21cm x21cm	M&EQ	1	No
9	Hydro Cellular Foam with ART Principle PU top Layer with silicon gel, 10cm x25cm	M&EQ	1	No
10	Hydro Cellular Foam with ART Principle PU top Layer with silicon gel 10cm x30cm	M&EQ	1	No
11	Hydro Cellular Foam with ART Principle PU top Layer with silicon gel, 7.5cm x7.5cm	M&EQ	1	No
12	Parraffin Gauze roll 15CmX 2 Mtr Box of 12-USFDA	M&EQ	1	No
13	Grid pattern acrylic adhesive film dressing 6.5x5cm Pkt of 100	M&EQ	1	No
14	Grid pattern acrylic adhesive film 15.5 x 8.5cm pkt of 20	M&EQ	1	No
15	Grid pattern acrylic adhesive film 25 x 10cm pkt of 20	M&EQ	1	No
16	Grid pattern acrylic adhesive film 35 x 10cm pkt of 20	M&EQ	1	No
17	Single use Negative pressure therapy system with portable pump and two dressing on one pack	M&EQ	1	No

Sk
15/3/22
(10)

Micro Drill with Burr Set

Instruments must be European CE and US FDA certified. certificate must be attached.
All the motors should be maintenance free D.C. brushless motors
Should have operation from both hand switch and foot switch All Attachments, hand-piece etc should be sterilizable through Steam and Flash Autoclave. Prior demo to be provided if needed.

1. Console----------01

- Should have Software upgradeable Provision
- Should have touch screen display control for incorporating multi-functions into systems.
- Outputs should represent in digital figures or in graphic charts.
- With inbuilt irrigating system Supply 220-240V only 50-60Hz.
- Should be able to identify different hand-pieces with display on console.
- Should have function of controlling brightness, contrast and alarm volumes on the console.
- Ability to recognize &accept 02 two hand-pieces at the same time.
- Able to change the setting of the BRAKING; Speed to provide hard or soft brake and acceleration of the hand-piece
- Torque sensing feedback capability.
- Should be programmable as per surgeon preference.
- Should be able to store user setting for different surgeries
- Colour Display
- On Screen Help

2. Footswitch----------01

- Should have fully programmable footswitch as user need
  User should be able to control following functions via footswitch
  - Forward
  - Reverse
  - Oscillation
  - Select hand-piece
  - Irrigation Control with Increase/decrease water flow rate
  - Switch over to high/ low speed
  - Increase or decrease speed (Accelerator type for accurate speed control)

3. Drill Hand-piece----------01

- Maximum Speed not less than 48000-60000 RPM
- Should accept straight, angled attachments and contra-angle attachment
- Should have facility of hand controlled hand-switch also
- Should be able to mount accessories/ attachments without usage of any tools DC brushless motors

4. Attachments for the Drill---------01 Each

- Angled Long
- Angled Medium
- Straight Medium

- Straight Long

Burs for the Attachments
Assorted Tungsten Carbide Cutting & Diamond from 1 mm to 8 mm
12 Burs of each size

5. Micro saws----------01 Each
Saggital Saw

- Maximum speed of 22000-25000 CPM
- Snap-lock assembly and disassembly of all attachments
- Maintenance free DC brushless motor

Oscillating Saw

- Maximum speed of 20000-22000 CPM
- Snap-lock assembly and disassembly of all attachments
- Maintenance free DC brushless motor

Reciprocating Saw

- Maximum speed of 14000-18000 CPM
- Snap-lock assembly and disassembly of all attachments
- Maintenance free DC brushless motor

Assorted Blades for Sagittal, Oscillating and Reciprocating Saws All sizes (Short, Medium, Long in Both Narrow and Wide Variant)---------5 each
6.Wire and Pin Driver----------01

- Maximum speed of 1500 rpm
- Trigger control for variable speed control on the hand-piece.
- Cannulated for use with wires and pins.
- Forward/Reverse and oscillation mode controls on the hand-piece.

7. Pin Collet for Universal Driver----------01
8. Jacobs Chuck with key----------01
9. Wire Collet of compatible and suitable diameter----------01
10. Connecting cord----------02

- 10ft long, 3/8" diameter flexible electrical connecting cord.
- Dot-to-Dot type push-pull connectors at both ends.
- Autoclavable

11. Compatible Irrigation tubings----20