

AMENDMENT No – IV Dated 06.06.2016

Subject: Amendment to the tender Enquiry Document

Ref: Tender Enquiry No.: HSCC/SJH/Med. Eqpt./17 dated 10.05.2016

Existing as :

Sl. No.	Description	Schedule
i.	Closing date & time for receipt of Tender	06.06.2016, 1430 hrs IST
ii.	Time and date of opening of Techno – Commercial tenders	06.06.2016, 1500 hrs IST

To be read as :

Sl. No.	Description	Schedule
i.	Closing date & time for receipt of Tender	10.06.2016, 1430 hrs IST
ii.	Time and date of opening of Techno – Commercial tenders	10.06.2016, 1500 hrs IST

Existing as :

NOTICE INVITING TENDERS (NIT) - On E-TENDER BASIS

CTVS Department			
4	Operation Table for CTVS Surgery	1 no. for Super-Specialty Block	30,000.00
8	ICU Ventilator (High End)	125 no. for ICU (Super-Specialty Block) + 6 no. for Heart Command Centre (Super-Specialty Block) + 10 no. for ICU (Emergency Block) =141 No.	22,20,000.00

Read as :

NOTICE INVITING TENDERS (NIT) - On E-TENDER BASIS

CTVS Department			
4.	Operation Table for CTVS Surgery	6 nos. for Super-Specialty Block	1,80,000.00

8.	ICU Ventilator (High End)	125 no. for ICU (Super-Specialty Block) + 6 no. for Heart Command Centre + 2 Nos. for Nephrology (Super-Specialty Block) + 10 no. for ICU (Emergency Block) =143 No.	22,52,000.00
----	---------------------------	---	--------------

Section - VIII
Technical Specifications

ORTHOPEDIC DEPARTMENT
ITEM No. 1 Spine Operation Theatre

1. Existing as:

Point 9: Skull Clamp Aluminum - 1

To be read as:

Point 9: Skull Clamp Aluminum / radiolucent
- 1

2. Existing as :

Point 11: Clark socket - 2

To be read as :

Deleted.

3. Existing as :

Point 15 : 3 piece Lateral Positioner along with 2 side Rail Clamps & one clark Socket.

To be read as :

Lateral Positioner along with completer accessories & attachment.

4. Existing as :

Point 18 : Mayfield adaptor with skull clamp with positioned

To be read as :

Deleted

5. **Existing as :**

Point 20 : Body Positioners for probe position including lap supports

To be read as :

Body positioners for prone position including leg supports.

6. **Existing as :**

Point 31 : Should have installation at minimum two centers (Govt. or Private) and should submit installation & performance certificate.

To be read as:

Should have installation at minimum one Institute / hospital like AIIMS / PGIMER/SGPGI/RML etc. & should submit installation / performance certificate.

ITEM No. 2 Orthopaedic Operation Table.

Amended Specification for Orthopaedic Operation Table.

The OT Table should have the following specifications :

1. The table should be user friendly, ergonomic with divided foot section (02 pieces) as well as separate single piece foot section, Electrohydraulic operated / motor driven oil free.
2. All table top sections except back & central section should be quickly detachable and interchangeable using easy latch mechanism to suit all surgical needs.
3. **Amended as:** Should have specialized back rest suitable for beach chair position with special helmet type head rest separate from head section with removable posterior shoulder section for post shoulder approach.
4. The Table top should be made up of scratch – less high pressure laminate to permit X-Ray penetration and C-Arm fluoroscopy.
5. The entire length of the table top should be X-Ray translucent
6. Should be equipped with X-ray translucent seamless molded mattress attached to the top for easy attachment/detachment and hygiene
7. Should be usable in combination with C-arm image intensifier with facility to insert X-ray cassette from either ends.
8. All table positions height, lateral tilt, back section head section, beach chair position section trendelenburg and reverse trendelenburg, leg plate up / down should be electrically operated using switch on hand held controller.
9. Amended as :The table should have electrically operated longitudinal sliding of min. 300 mm. must be able to get C-Arm images from spine to foot without changing the patient position.
10. **Point Deleted**
11. Should have automatic 0 position switch.
12. The table should be equipped with control panel embedded in the centre column with equal performance as of remote control.
13. The base column should have telescopic cover of stainless steel and fibreglass laminate to prevent the ingress of fluid in the system.
14. All metal components of the table should be made up of corrosion resistant aluminium or stainless steel.
15. The table should be battery powered and should be usable while being recharged.
16. The table should also operate on mains power with internal charger unit.
17. Fully charged battery should be sufficient for 2 weekly operative schedule. The centre column panel should indicate the charging status and table battery status.
18. The table should have heavy duty 125 mm antistatic swivelling twin castors with central locking for easy manoeuvrability.
19. Should have safe working load capacity of at least 225 kg or more.
20. Maximum lifting capacity of 360 kg.
21. **Amended as :**Should have a wired electric foot control for adjustment of height, trendelenburg, tilt
22. Table quoted should be international level and material quality.
23. **Point Deleted.**
24. Should be supplied with following parts :
 - Padded Armrest with straps piece with clamps with adjustable height, angle & distance 02 pieces
 - Padded Leg rests with clamps for lithotomy position with adjustable height, angle & distance 02 pieces
 - Shoulder Supports with clamps adjustable height, angle & distance 02 pieces
 - Side support with clamps adjustable height, angle & distance 02 pieces
 - Anaesthesia Screen with clamps 01 piece
 - Infusion Rod with clamp 02 pieces

- charger for Charging the Battery

01 peice

Orthopaedic extension device complete with (i.e. fracture table)

- Adapter to the table 1 pc
- Perineal post (Paed and adult 01 each)
- **Deleted Point**
- Screw tensioner 2 pcs for traction over feet that has been fixed to traction boot.
- Traction boots (adults) 2 pcs,
- Traction boots (paed) 2 pcs
- **Amended as** Radiolucent Hand surgery table 01 pc
- Pelvic support 1 pc
- Traction frame must move synchronically with table top.
- All the accessories must be supplied with their suitable clamp/adaptors
- **Amended as : Attachment for upper limb tibia, femur traction and nailing**
 - **Amended as** Knee crutch with clamp for fixation to extension bar for tibia nailing
 - **Amended as:** Foot rest with support post & clamp for fixation to extension bar for tibia nailing
 - **Amended as** Condyle support with fixer for tibia nailing.
 - **Amended as** :Calf support with clamp and support for tibia nailing
 - **Point Deleted:** Padded knee support with clamp for fixation to extension bar
 - **Point Deleted** : Knew support with height adjustable telescopic support port
 - **Amended as** Femoral counter traction post & perineal post one accessory for femur nailing in lateral position .
 - Accessory rail extension
 - **New Point added:** Shoulder counter traction post, elbow counter traction post and Weinberger device (Complete Attachment) for traction based upper limb surgery
- **Attachment for hip surgery in lateral position.**
 - Secure lateral position must be achieved by use of these devices.
 - Lateral braces rectangular 02 pcs, can be put behind sacrum for lateral position with adjustable height, angle & distance
 - Lateral braces round type 02 pcs on both ASIS or on pubic symphysis with adjustable height, angle & distance.
 - Lateral arm board adjustable for lateral position.
- **Point Deleted** Arm operating table with traction device for upper limb (complete attachment)
- **Point Deleted** Special helmet type head rest for use with beach chair back rest for shoulder arthroscopy and upper arm procedures with sliding function and double joint mechanism providing wide adjustable range in all direction.
- **Point Deleted** Prone position mattress set for spinal & back procedures including formed head support.
- Attachment for knee arthroscopy (Arthroscopic leg holder) attached to table to allow 130 deg knee fixation
 - **Point Deleted** Spinal frame / pad (Wilson frame / pad)
 - **Point Deleted** Jackson frame / pad
 - **Point Deleted** Must be able to be used with cervical tong in supine or prone position
 - **Point Deleted** Radiolucent hand surgery table
 - **Point Deleted** Dedicated Orthopaedic table with in-built traction system.

Technical Specifications

Point Amended as Height Adjustment min. 700 mm and Max 1100 mm or more

Amended as Side Tilt - + 20 deg or more

Back section adjustment -40deg to + 70 deg or more
Leg section adjustment -90 deg to + 20 deg detachable
Trendelenburg adjustment atleast 25 deg
Headrest + 45 deg.
Max. Width with rails 590 mm or better
Overall Length 2100 mm or better
Flex position 220 deg
Reflex position 110 deg

Point Deleted Electrical Longitudinal sliding 300f mm or more

Point Deleted CMC Rates should be quoted in price bid

Point Deleted Demonstration to technical evaluation committee (if required)

- Power supply : 220-240 VAC, 50 HZ fitted with Indian Plug
- Standards , Safety and Training
- Comprehensive training for support staff till familiarity with the system

Documentation :-

- User / Technical Maintenance manual to be supplied in English
- Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technical and company service engineer should be clearly spelt out
- Compliance report be submitted in a tabulated and pint wise manner clearly mentioning the page/para number of original catalogue / data sheet. Any point, if not substantiated with authenticated catalogue / manual, will not be considered.
- All accessories quoted and provided must be of internationally repute. With table the accessories must also be imported with the table.
- The firm should have trained engineers based in Delhi to provide service within 24 hrs of call the service centre should be located in Delhi/NCR
- Warranty :- Warranty for 2 yrs (including all accessories , spares and labours) and bidders must quote CMC for another 5 yrs (including all accessories , spares and labours)
- Should have maintenance-free battery, integrated in the column, which can be charged via a separate charging cable that also serves for direct mains operations if needed.
- **Amended as** Set of Visco elastic pads for supporting knee, lumbar spine, legs (lateral and supine), heels, Head, thorax (prone) – 2 psc each.must be EUROPEAN CE Certified.
- The system should be quoted with trolley for storing
- The table should be USFDA & CE European. It should be meeting international standards for medical and electrical safety standards.

- Rates of all consumables if any to be freezed for 5 years, and to be quoted in tender document.
- **Point Deleted** European CE & USFDA
- Physical demonstration (if required)
- **Point Deleted** Warranty 5 years + CMC 5 years
- Best Quality / ergonomic / user friendly
- L1 will include CMC cost also
- Preventive maintenance every 3 months with log book entry.

ITEM No. 3. Electric Micro Drill System

1. **Existing as :**

Motor should be light weight & not be bulky preferably less than 100 gms.

To be read as:

Motor should be light weight & not be bulky preferably less than 150 gms.

2. **Existing as :**

Bone mill attachment for bone graft with consumables should be quoted

To be read as:

Bone mill attachment for bone graft with unit price of consumables should be quoted

3. **Existing as :**

Debrider Hand piece

To be read as:

Deleted

4. **Existing as :**

US FDA approved

To be read as:

US FDA listed / CE (EU) certified.

ITEM No. 8 ICU Ventilator

Amended Specifications:

Universal Advanced ICU Ventilator Specifications

No	Description
1.	State of the art ventilator for use in intensive care, critical care, intermediate care and emergency care
2.	Device must be driven by a high performance integrated compressor of the same make as that of ventilator & to be shipped with ventilator. The ventilator should switch over to wall air supply automatically in case of a problem.
3.	Must have US FDA, and CE from a reputed EU agency
4.	Life-supporting ventilation of adult, paediatric , infant, neonate patients

5. Should be able to operate on dual-limb circuits (only on single-limb circuits not acceptable) , should be silicon .
6. Invasive and Non-Invasive (NIV) ventilation with automatic leak compensation in NIV
7. Mandatory & spontaneous flow 200 L/min or more
8. In-built Li ion battery backup of minimum 1 hour
9. Colour touch screen 12 (twelve) inch or more
10. USB / RS232 connections
11. In built nebulizer system: **optional** Aeroneb nebulizer system
12. Automatic barometric compensation
13. Complete automatic self-check upon start up
14. **Ventilator Modes**
15. Pressure controlled / assisted / SIMV ventilation
16. Volume controlled / assisted / SIMV ventilation
17. Pressure supported ventilation (PSV)
18. CPAP / PEEP
21. PRVC or VTPC or similar . VS mode
19. BPRV / Bivent / Bilevel or similar mode
20. APRV
21. Synchrony tools : Adjustable Rise time , Auto Exp. threshold
22. Advance intelligent ventilation modes such as ASV intelligent or Smartcare with PPS / PAV/ NAVA or similar for intelligent ventilation and weaning: **optional**
23. Non-invasive (NIV) ventilation with automatic leakage compensation 100 L/min.
24. Auto mode, Spontaneous breathing trial .
25. Facility of monitoring Pleural pressure; esophageal pressure, diaphragmatic activity: **optional**
26. Inspiratory and expiratory hold
27. O2 flush 100% O2 for 2 min minimum
28. ATC automatic tube compensation (fully configurable: tube type, diameter, compensation level %, compensation phase)
29. Facility to measure LIP & UIP by slow inflation technique
30. In built upgradability to EtCO2 with main stream technology
31. In built upgradability to SpO2 monitoring :optional
32. **Control Settings**
33. Quick set up for automatic initial settings according to selected patient type & height based ideal body weight
34. FiO2 21 ... 100 %O2
- Tidal Volume 02 ... 2500 ml (vol control)
35. PC 0 ... 100 mbar (cmH2O)
- PS 0...60 mbar (cmH2O)
36. PEEP 0 ... 50 mbar (cmH2O)
37. Respiratory rate 1 ... 100 bpm
- Insp Time 0.1 to 10 sec
38. Flow trigger sensitivity 0.1 ... 20 L/min
39. Pressure trigger sensitivity 0.1 ... 15 mbar
40. Inspiratory pause
41. Insp hold & Exp hold
42. Vol Control flow waveform – Square , Decelerating & 50% decelerating
- Patient Monitoring**
43. User interface should be fully configurable by the user (doctor, nurse)
44. Simultaneous display of minimum 4 curves & 2 loops

45. Curves Pressure
Flow
Volume
CO2
46. Loops Pressure / Volume
Volume / Flow
Pressure / Flow
- Reference loop & loop overlap , freeze facility with cursor
47. Patient-proximal flow measurement for neonate/infant categories preferred with reusable flow sensor
48. Exhalation monitoring: Tidal Volume, Minute Volume, Peak Flow for Mand & Spont breaths
49. Timing monitoring: Rate, Insp. Time, Exp. Time, I:E
50. Pressure monitoring: Peak, Plateau, Mean, PEEP,
51. Lung mechanics: Compliance (static and dynamic),
Resistance (insp. and exp.)
Lung over-distension parameter
52. NIV and spontaneous monitoring: % spontaneous breaths, spontaneous inspiration time, spontaneous. exp. volume, RSBI
53. Maneuver-related monitoring: AutoPEEP, P 0.1, NIF (negative inspiratory force), PEEPi volume
54. Capnography : In built ,Volumetric et CO2 mainstream, Same sensor be interchangeable within the machines Realtime CO2 curve
55. Waveform freeze and cursor measurements
56. Trending of all monitored parameters for a minimum of 72 hrs or more
57. Export of trending data to computer
Export of trending data and real-time curves to computer

Alarms

58. Automatic & manual setting should be possible
59. Should be able to deactivate alarms for VtExp and MVExp in non-invasive ventilation.
60. Connection to central alarming system
61. Alarm history 1000 alarms
62. Change of ventilation settings will automatically adjust directly related alarms
63. etCO2 high/low, inCO2 high
64. Pulse high/low, SpO2 low

Accessories

65. Trolley with circuit support arm from the same manufacturer (Orig Equip Manuf)
66. Compressor of the same make as ventilator (Orig Equip Manuf) to be shipped along with ventilator
67. Circuit reusable (2 each for Adult/Paed/Neonate): Silicon
68. 5 Flow sensors to be supplied with each machine
69. O2 & Air supply hose
70. Test lung: Neonatal, Paediatric, Adult from the same manufacturer to be quoted separately.
71. EtCO2 main stream sensor & SpO2 sensor (price to be offered separately)
72. Demonstration is must and mandatory. Connectivity to HIS upgradeable in future.
73. Must submit user list & performance report within last 5 years from major hospitals
74. Back to back warranty to be taken by the supplier from the principal to supply spares for minimum 10 years
75. Comprehensive warranty for 5 years

- 76. Comprehensive Maintenance Contract (CMC) for 5years
- 77. O2 Sensors & Flow Sensors should be covered in the warranty period
- 78. Prices of consumables & spares should be quoted at the time of tender
- 79. No. Of breathing circuits , masks (small, medium, large), Exp valves/cassettes: 2 each/machine
- 80. 2 Filters with each machine
- 81. Downtime 95%; a greater downtime would result in a corresponding increase in Warranty period
- 82. 1 Service Engineer should be based in the institution
- 83. Fischer & Packel Ultrasonic complete set Humidifier suitable for the machine: **optional**

“**OPTIONAL**” ITEMS: PRICES TO BE QUOTED SEPARATELY

SECTION – IX
QUALIFICATION CRITERIA

Existing as :

- 2. (a) A Tenderer quoting as Manufacturer should have supplied and installed in last Five years from the date of Tender Opening, at least 50% of the quoted quantity of the similar equipment which is functioning satisfactorily in Government Hospitals / Private Hospitals / PSU Hospital/ UN Agencies/Laboratories anywhere in India. Tenders shall submit Performance Certificate / Installation reports & Order Copies in respect of the above.
- 2. (b) A Tenderer quoting as authorized representative of the manufacturer should have executed at least one contract in the last five years from the date of tender opening of similar equipment which is functioning satisfactorily, in Government Hospitals/Private Hospitals/PSU Hospital/UN Agencies/Laboratories anywhere in India. Tenders shall submit Performance Certificate / Installation reports & order copies in respect of the above.

To be read as :

2. (a) The Manufacturer should have supplied and installed in last Five years from the date of Tender Opening, at least 33 % of the quoted quantity of the similar equipment meeting major parameters of technical specification which is functioning satisfactorily.

2 (b). The Tenderer quoting as authorized representative of the manufacturer meeting the above criteria 2 (a) should have executed at least one contract in the last five years from the date of tender opening of similar equipment meeting major parameters of Technical specification which is functioning satisfactorily, anywhere in India of the same manufacturer.

**SECTION - IV
GENERAL CONDITIONS OF CONTRACT (GCC)**

Liquidated damages:

Existing as :

23.1 Subject to GCC clause 26, if the supplier fails to deliver any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, the Purchaser/Consignee shall, without prejudice to other rights and remedies available to the Purchaser/Consignee under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached Purchaser/Consignee may consider termination of the contract as per GCC 24. During the above-mentioned delayed period of supply and / or performance, the conditions incorporated under GCC sub-clause 22.4 above shall also apply.

To be read as:

- 23.1 Subject to GCC clause 26, if the supplier fails to deliver any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, the Purchaser/Consignee shall, without prejudice to other rights and remedies available to the Purchaser/Consignee under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached Purchaser/Consignee may consider termination of the contract as per GCC 24. During the above-mentioned delayed period of supply and / or performance, the conditions incorporated under GCC sub-clause 22.4 above shall also apply.
- 23.2 In the event of delay in submission of Proforma Invoice beyond 7 working days from the date of notification of award, the delay shall be to the account of supplier & Purchaser shall deduct Liquidated damages, as per clause 23.1. Proforma Invoice should be strictly as per the terms & conditions mentioned in Notification of Award / Tender Conditions.

23.3 Proforma Invoice submitted by supplier is found to be deficient, because of which purchaser is unable to open the letter of credit, delay shall be to the account of supplier & purchaser shall deduct liquidated damages as per clause 23.1.

All other terms & conditions remains unaltered.

**Medical Superintendent
Safdarjung Hospital & VMMC,
New Delhi.**