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Sub: Inviting comments or objections about proprietary basis procurement -Reg.

The Institute is in the process to purchase of the following items:

S. No.	Platform/Name of Item	PAC Certification by
1.	Automated Secretion Management System for Ventilated Patients	INNACCEL Technologies Pvt. Ltd.
2.	OT Table for Robotic Surgery	Baxter Medical System GmbH+Co.KG
3.	EV Workstation	Erbe Electromedizin GmbH
4.	Surgical Workstation	Erbe Electromedizin GmbH
5.	Patient Mobilizer	Arjo AB Sweden

The PAC Certifications by Company as well as by user are attached.

The specifications and P-3 Certificate are being uploaded for open information and also to submit online objections, comments, if any from any manufacturer/firm regarding proprietary nature of aforementioned Equipment giving Advt. reference No. KSSSCI/Tender-07/2026-27/2026-27. The comments should be received in the name of the Director, KSSSCI, Sultanpur Road, Lucknow-226002 on or before 20 . 07 .2026 **upto 04:00 pm,** failing which it will be presumed that any other manufacturer/firm is having no comments, objections for above purchase on proprietary basis and case will be decided on merits.

Attachments:

1-Specifiction of items mentioned above.

2- PAC Certificate.

156 Non Soochi
BPAC (3)

KALYAN SINGH SUPERSPECIALITY CANCER INSTITUTE, LUCKNOW
Department of Anaesthesiology

Automated Secretion Management System for Ventilated Patients

A device for automated secretion management and oral hygiene in patients on ventilation having the following specifications:

1. Should include Control Unit having the following features:
    a. Independent, programmable suction pressure and frequency from oropharyngeal, and subglottic regions
    b. User-defined Oropharyngeal pressure range of 80 – 200 mmHg
    c. User-defined Subglottic pressure range of 45 – 120 mmHg
    d. User-defined suction intervals between 15 – 420 minutes
    e. User-defined oral lavage intervals between 15 – 420 minutes
    f. Safety pressure cutoff of 300mm Hg to prevent mucosal injury
    g. Built-in battery backup of at least 30 minutes
    h. Connection to Hospital suction line and ability to work with input pressure up to 500mm Hg and flow rate up to 60 LPM
    i. Mechanism to automatically switch off suctioning upon detection of no secretions
    j. Mechanism to detect port blocks
    k. Mechanism to clear port blocks
    l. Weight under 4 kg
    m. Handle for easy carrying
    n. Provision for mounting on IV pole

Dr. Mohd. Asim Dr. Indubala Dr. Ruchi Dr. Archana

Dr. Tapas FC JDMM Nominee of Director

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KALYAN SINGH SUPERSPECIALITY CANCER INSTITUTE, LUCKNOW
Department of Anaesthesiology

2. Should include the following Accessories:
    a. Sensor Unit for detection of presence of secretions with channels for insertion of patient tubings
    b. Autoclavable collection containers for collection of secretions
    c. Collection containers with overflow protection
    d. Autoclavable lavage solution jar
    e. Metal holder to mount containers and jars on IV pole
3. System should be US FDA and European CE certified
4. ISO 13485 certification for manufacturer

Consumables Kit for Automated Secretion Management System for Ventilated Patients - Specifications

Consumables Kit for a device for automated secretion management and oral hygiene in patients on ventilation having the following specifications:

1. Consumables Kit containing 3 components:
    a. 1 VC Lumen with 1 VC Holder
    b. 1 VC Tubing
    c. 1 VC Filter

Dr. Mohd. Asim Dr. Indubala Dr. Ruchi Dr. Archana

Dr. Tapas FC JDMM Nominee of Director

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Department of Anaesthesiology

2. VC Lumen-type patient interface for secretion removal and oral lavage delivery with the following features:
    a. Single, curved lumen with atraumatic tip to remove secretions from oropharyngeal area
    b. With in-built ports to administer lavage
    c. Min. 4mm ID for the suction channel
    d. Should have Multichannel tubing with individual channels for suctioning and delivering lavage
    e. Separate channels for oropharyngeal and subglottic.
    f. Connector to the subglottic port of CASS Endotracheal tubes to enable subglottic suctioning
    g. Should be made of kink-proof, medical grade pthalate- free PVC
    h. Total effective length ~64cm

3. VC Holder for securing patient interface
    a. Should have a rail of length 80mm to be positioned on the upper lip
    b. Clip mechanism to hold patient interface that mounts on the rail
    c. Elastic band for securing
    d. Adjustable Earloop design for securing the holder

Dr. Mohd. Asim Dr. Indubala Dr. Ruchi Dr. Archana

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4. VC Filter- should connect, the Control Unit to Collection Containers
    a. Should have color-coded bands – green & yellow
    b. Should have separate tubes for each suction port
    c. Length should be ~50cm
    d. ID = 6mm, OD = 9mm
    e. Should include individual HME filters (one per tube) to prevent contamination of the Control Unit
    f. Should be made of kink-proof, medical-grade PVC

5. VC Tubing- should connect collection containers to the patient interface (lumen) and:
    a. Should contain multi-channel tubes for suctioning and lavage.
    b. Multichannel tubing length- 1.5m, ID = 6mm, OD = 9mm
    c. Should be made of kink-proof, medical-grade pthalate- free PVC
    d. Single, multi-channel connector at patient end

6. Consumables should be US FDA or European CE certified

7. ISO 13485 certification for manufacturer

Dr. Mohd. Asim Dr. Indubala Dr. Ruchi Dr. Archana

Dr. Tapas FO JDMM Nominee of Director

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KALYAN SINGH SUPERSPECIALITY CANCER INSTITUTE
C.G. CITY, CHAK GAJARIA, LUCKNOW - 226002
(On Letter Heady)

PROPRIETARY/ SPECIFIC BRAND GOODS CERTIFICATE

1	Item/ Type/ Model No. required along with specification	VAP CARE (Automated secretion management system for ventilated patients)
2	If the item a spare part attachment or accessory for an existing equipment Yes / No (If Yes, provide details)	NO, It is a standalone device.
3	Name of the manufacturers/supplier of the item proposed by the indenter	INNACCEL TECHNOLOGIES PVT. LTD.
4	Are they sole manufacturers/ sold distributors of the Item Yes / No	YES
5	If there any other item with similar/equivalent specification available in the market to meet the job requirement envisaged. Yes / No (If Yes, explain why those alternatives cannot be procured and provide a comparative analysis of the functional advantages/cost-effectiveness of the recommended item)	NONE, AS PER THE PATENT CERTIFICATE. (attached)
6	Efforts made to locate alternative sources of supply or use of substitutes	NO OTHER SUBTITUTE PROVIDE AUTOMATICALLY FLUID REMOVAL SYSTEM FROM MULTIPLE AREAS OF THE RESPIRATORY SYSTEM.
7	Why open tender can't be resorted to, for locating alternative source.	As per the patent certificate, No other source has the same technology
8	Are the proprietary items certified to have reasonable rates? Yes / No (Attach supporting documents, if applicable)	YES, order copy attached
9	Any other justification for procuring the item from a single source	A device for automated secretion removal from the respiratory tract and maintenance of oral hygiene.

I hereby certify that the above item is required to be procured on a proprietary/single-source basis, as the specified brand is the only known source that meets our functional requirements. Given the unique advantages of this brand, an open tender process would not serve any meaningful purpose in this case and can justifiably be waived.

(strike out whoever is not applicable)

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Head of the Department
Prof. Mohd. Asim Rasheed
Head, Department of Anaesthesiology
KSSSCI, Lucknow

Kalyan Singh Super Specialty Cancer Institute
कल्याण सिंह अति विशिष्ट कैंसर संस्थान
C.G. City ,Sultanpur Road, Lucknow-226002
सी०जी० सिटी, सुल्तानपुर रोड, लखनऊ- 226002
(An Autonomous Institute of the Govt. of Uttar Pradesh)
(उत्तर प्रदेश सरकार का स्वायत्तशासी संस्थान)

Email: procurement.kssscl@gmail.com

Proprietary Article Certificate (PAC) for Items/Goods

(1) The indented goods are manufactured by M/s. INNACCEL TECHNOLOGIES

(2) No other make or model is acceptable for the following reasons:

a) No other make/model provide automatically fluid removal system from multiple areas of the respiratory tract.

b) Independant programmable suction pressure and frequency to suck secretions from oropharyngeal and subglottic regions, which is very useful in mechanically ventilated patients esp. paediatric group, and during the weaning phase.

Dr. Indubala Maurya
Associate Professor
Anaesthesiology
Kalyan Singh Super Speciality Cancer Institute
12/5/22
(Signature of Indentor)

Prof. Mohd. Asim Rasheed
Head, Department of Anaesthesiology
KSSSCI, Lucknow
(Signature of HOD)

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INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

क्रमांक : 044106962
SL No :

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 Of The Patents Rules)

पेटेंट सं. / Patent No.	:	301165
आवेदन सं. / Application No.	:	201747008545
फाइल करने की तारीख / Date of Filing	:	18/02/2016
पेटेंटी / Patentee	:	COEO LABS LIMITED.

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित AUTOMATICALLY REMOVING FLUID FROM MULTIPLE REGIONS OF A RESPIRATORY TRACT नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 18th day of February 2016 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled AUTOMATICALLY REMOVING FLUID FROM MULTIPLE REGIONS OF A RESPIRATORY TRACT as disclosed in the above mentioned application for the term of 20 years from the 18th day of February 2016 in accordance with the provisions of the Patents Act, 1970.

This item is equivalent to Automated suction Management System for Ventilated patient, as given by the department.

Prof. Mohd. Asim Rasheed
Head, Department of Anaesthesiology
KSSSCI, Lucknow

THE PATENT OFFICE GOVT. OF INDIA

अनुदान की तारीख : 19/09/2018
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, **18th day of February 2018**को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।
Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on **18th day of February 2018** and on the same day in every year thereafter.

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

क्रमांक : 044106962
SL No :

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 Of The Patents Rules)

पेटेंट सं. / Patent No.	:	301165
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पेटेंटी / Patentee	:	COEO LABS LIMITED

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित AUTOMATICALLY REMOVING FLUID FROM MULTIPLE REGIONS OF A RESPIRATORY TRACT नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 18th day of February 2016 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled AUTOMATICALLY REMOVING FLUID FROM MULTIPLE REGIONS OF A RESPIRATORY TRACT as disclosed in the above mentioned application for the term of 20 years from the 18th day of February 2016 in accordance with the provisions of the Patents Act,1970.

एकस्व कार्यालय THE PATENT OFFICE GOVT. OF INDIA भारत सरकार

अनुदान की तारीख : 19/09/2018
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, **18th day of February 2018**को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on **18th day of February 2018** and on the same day in every year thereafter.

Specification of the item- OT Table for Robotic Surgery

S.No	Specification
1.	The Surgical Table should be brand new, never used and should be supplied with software ITM - (Integrated Table Motion) which can integrate both OT table for Surgical Robotic Systems including Davinci Xi robot.
2.	Mobile operating table with 4-section tabletop: headrest, a permanently integrated back section, a permanently integrated seat section, leg section.
3.	Mobile operating table with dual wheels having a diameter 100mm. Table base flat U-shaped, stainless steel, cutout of the side.
4.	Locking the table should be through Electrohydraulic floor lock and bottom of the floor lock should be made of stainless steel.
5.	Operating tables work in collaboration with OT table for Surgical Robotic Systems including Davinci Xi robot by integrating Trendelenburg and anti-Trendelenburg movements. When changing the Trendelenburg or anti-Trendelenburg position through the table, the robot arms automatically follow the table, adjusting their position to the position of the table top, while maintaining the iso-center of the operating field (during Trendelenburg / anti Trendelenburg adjustment, the table automatically uses the table's longitudinal travel) no need to remove the robot arms when adjusting the Trendelenburg / anti-Trendelenburg position saving time and increasing patient safety.
6.	The table is wirelessly integrated with the Surgical Robotic Systems including DaVinci, with the option of connecting it to the robot using a cable.
7.	The table is equipped with a hydraulic system to compensate for unevenness of the substrate, automatically eliminating any unevenness in the range up to 10mm.
8.	The table with emergency unlocking the base from the floor using the emergency release lock button, located at the base of the table.
9.	Electromechanically table drive.
10.	The table is battery powered and rechargeable via power supply through the socket located inside base of the table. Built-up batteries must allow at least 2 hours of continuous uninterrupted work, which in clinical practice will allow to use the table for about 5 days. Maximum battery charging time - 3 hours.
11.	The base and frame of the tabletop made of stainless steel except elements of hinges covered with plastic.
12.	The total width of the tabletop is 600mm.
13.	The width of the surface of mattress top, not including side rails is 545mm.
14.	The tabletop equipped with seamless, removable mattress, with anti-decubitus properties, with 90mm thickness. Tabletop translucent to X-ray for its entire length, no metal cross rails which could cause obstruction for imaging area.
15.	The accessory rails at their ends have hinged ratchet pins to prevent unwanted slipping of hanged accessories, e.g. when the table is tilted.
16.	The table is equipped with a hook coupling points system with sensors recognizing the mounted element, which is confirmed in the backlight of only active functions on the remote control.

Dr. Ankur Verma
HOD, Surgical Oncology, KSSSCI

Dr. Durgesh Kumar Pandey
Faculty Surgical Oncology, KSSSCI

Dr. Ashok Kumar Singh
Faculty/Member, Surgical Oncology, KSSSCI

Concurrence through mail
Prof. Vijay Kumar
Professor & Head
Deptt. of Surgical Oncology, KGMU, Lucknow
(External Expert)

Dr. AKASH AGARWAL MS, MCh
Prof. Akash Agarwal
Deptt. of Surgical Oncology, Dr. RMLIMS, Lucknow
(External Expert)

JD (MM), KSSSCI

Finance Officer, KSSSCI

Addl. Prof. Akshay Anand
Additional Professor, Deptt. of General Surgery, Nominee of Director, KSSSCI

Concurrence through mail
Prof. Arvind Krishnamurthy
Professor Deptt. of Surgical Oncology Cancer Institute (WIA), ADYAR Chennai
(External Expert)

17.	Functions of the table with wired remote control by electromechanical system: -Lift -Tilt -Trendelenburg / reverse Trendelenburg -Flex/reflex -Back section -Leg section -Longitudinal slide -Zero position -Lock/unlock to floor -Initiating manual "pairing" of the table with the daVinci robot or manually disabling "pairing" of the table -Turn off
18.	The ability to operate the table function from the emergency control panel located on the table column. Flat emergency panel located on the wall of the column in the long axis of the table, built in the column, resistant to leakage of liquids.
19.	In order to activate the function of the panel is required to press two buttons simultaneously to prevent accidental activation of the panel.
20.	Functions available on the emergency control panel: -Lift -Tilt -Trendelenburg / reverse Trendelenburg -back section -leg section -Longitudinal slide -Zero position -Lock/unlock to floor -changing the orientation of the patient's position -turn on/turn off
21.	The table is equipped with an anti-collision system, which prevents collision of the table top components and prevents, the table top components against hit to the floor. The system stops the movement in case of a possible collision and informs the user about the situation by a message on the remote control.
22.	The remote control is equipped with a display informing about the position of the tabletop in the form of digital parameters (Trendelenburg, Reverse Trendelenburg, lateral inclination, longitudinal travel, height, position of the leg sections, position of the back section), leveling the table top.
23.	Wired remote control clearly divided into 3 sections. The first section with buttons for locking / unlocking from the floor. The second section with separate buttons responsible for the movement of the column (Trendelenburg, Reverse Trendelenburg, tilt, up / down). The third section with separate buttons responsible for the movement of the tabletop (leg section, back section, longitudinal movement, flex / reflex position).

Dr. Ankur Verma
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Faculty Surgical Oncology, KSSSCI

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(External Expert)

24.	Electromechanical height control of the tabletop from 590mm to 1140mm, not including the height of pad.
25.	Lateral tilt 30° adjustable electromechanical.
26.	Trendelenburg 45° adjustable electromechanical.
27.	Reverse Trendelenburg 45° adjustable electromechanical.
28.	Longitudinal table top shift 460mm adjustable electromechanical with a shift toward the head 180mm and towards the legs 280mm.
29.	Double-adjustable headrest in two planes, including basic adjustment in the range of +45°/-30° and in the second 45° plane assisted with a gas spring.
30.	Leg section adjustable electromechanical in range +90°/-105°
31.	Back section adjustable electromechanical in range +90°/-45°
32.	The table, while returning to "0" position, levels at the same time all the elements of the table top.
33.	Table with a working load of 450 kg.
34.	Wired remote control.
35.	Table equipped with an overload system - stopping the movement of the table in the case of overloading the tabletop in a specific position. In the case of an overload, the system stops the table in a safe position and informs the user on the display of a dangerous movement of the tabletop.
36.	Radiolucency area from leg section side 1232mm, including longitudinal shift.
37.	Radiolucency area from head section side 1221mm, including longitudinal shift and with head section.

SCOPE OF SUPPLY

1. TruSystem 7000 (dV)
2. Cable remote control TS7000 (dV)
3. Pad tabletop TS7000
4. dV connection cable
5. Head section double joint
6. Pad head section
7. Leg section simple two-part spread
8. Pad leg section two parts
9. Clamp radial setting – 2 each.
10. Arm support with Pads (Pair)
11. Arm Support for lateral position 450
12. Anesthesia screen extendable
13. Body strap rotatable
14. Shoulder support height adjustable T
15. Yellofin Stirrups Set
16. Lateral Brace/ Lateral Support with Pads (Set)
17. Operating & Service Manual

Dr. Ankur Verma
HOD, Surgical Oncology, KSSSCI

Dr. Durgesh Kumar Pandey
Faculty Surgical Oncology, KSSSCI

Dr. Ashok Kumar Singh
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Prof. Arvind Krishnamurthy
Professor Deptt. of Surgical Oncology Cancer Institute (WIA), ADYAR Chennai
(External Expert)

Additional Accessories:

1. Remote control wireless TS 7500
2. Charging unit mobile AC TS7500
3. Access line C7
4. Upper Back Section HV
5. Pad for upper back section H G
6. Pelvic extension H V
7. Pad pelvic extension H G
8. Pad for head positioning
9. Tunnel pillow II
10. TWO Year Warranty

Stirrups pair with below specifications x 1

Floating Boot: Self-adjusting standard boot minimizes pressure on the calf when moving the stirrup
Lift-Assist™ Technology: Allows easy movement of the leg when placing it in the desired position
Handle: Provides easy intraoperative adjustment without compromising the sterile field. Simply release the handle to secure the leg holder in all directions.
Lithotomy Range: Set the stirrup in any position between +90° to –22° lithotomy
Abduction Range: Set the stirrup in any position between +25° to –9° abduction
Lithotomy & Length Indicators: Visual indicators help ensure precise positioning
Mechanism Cover: Easy to clean the stirrup between cases
Patient Weight Capacity: 350 lbs (159 kg)

Dr. Ankur Verma
HOD, Surgical Oncology, KSSSCI

Dr. Durgesh Kumar Pandey
Faculty Surgical Oncology, KSSSCI

Dr. Ashok Kumar Singh
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Kalyan Singh Super Specialty Cancer Institute

कल्याण सिंह अति विशिष्ट कैंसर संस्थान

C.G. City ,Sultanpur Road, Lucknow-226002

सी०जी० सिटी, सुल्तानपुर रोड, लखनऊ- 226002

(An Autonomous Institute of the Govt. of Uttar Pradesh)

(उत्तर प्रदेश सरकार का स्वायत्तशासी संस्थान)

PROPRIETARY/ SPECIFIC BRAND GOODS CERTIFICATE

1.	Item/ Type/ Model No. required along with specification	OT Table for Robotic Surgery/Surgical Table (Product Code-TS7000dv)
2.	If the item a spare part attachment or accessory for an existing equipment Yes / No (If yes, provide details)	No
3.	Name of the manufacturers/supplier of the item proposed by the indenter	Yes
4.	Are they sole manufacturers/ sold distributors of the Item Yes / No	No
5.	If there any other item with similar/equivalent specification available in the market to meet the job requirement envisaged. Yes / No (If Yes, explain why those alternatives cannot be procured and provide a comparative analysis of the functional advantages/cost-effectiveness of the recommended item)	Yes
6.	Efforts made to locate alternative sources of supply or use of substitutes	Yes
7.	Why open tender can't be resorted to, for locating alternative source.	Propriety item/Equipment
8.	Are the proprietary items certified to have reasonable rates? Yes / No (Attach supporting documents, if applicable)	Yes
9.	Any other justification for procuring the item from a single source	Not Applicable

I hereby certify that the above item is required to be procured on a proprietary/single-source basis, as the specified brand is the only known source that meets our functional requirements. Given the unique advantages of this brand, an open tender process would not serve any meaningful purpose in this case and can justifiably be waived.

(strike out whoever is not applicable)

Proprietary Article Certificate in the following form is to be provided by the Ministry/Department before procuring the goods from a single source under the provision of sub-Rule 166 (i) and 1 66 (iii) as applicable.

(i) **The OT Table for Robotic Surgery/Surgical Table (Product Code-TS7000dv) is manufactured by M/s Baxter Medical System GmbH+Co.KG and is compatible with the Da Vinci ® Xi ™ System.**

(ii) **No other make or model is acceptable for the following reasons:**

Kalyan Singh Super Specialty Cancer Institute

कल्याण सिंह अति विशिष्ट कैंसर संस्थान

C.G. City ,Sultanpur Road, Lucknow-226002

सी०जी० सिटी, सुल्तानपुर रोड, लखनऊ- 226002

(An Autonomous Institute of the Govt. of Uttar Pradesh)

(उत्तर प्रदेश सरकार का स्वायत्तशासी संस्थान)

Because this is Proprietary product and is not manufactured by another company elsewhere and the only Surgical Table which has integrated table motion function compatible with the **Da Vinci ® Xi ™** System that enables the surgeon to reach different angles and reposition the patient during the procedure to optimize access, exposure and reach.

(iii) Concurrence of finance wing to the proposal vide: .....

(iv) Approval of the competent authority vide: .....

(Signature with date and designation of the indenting officer)

INTUITIVE SURGICAL INDIA PRIVATE LIMITED

Registered Office:
5th Floor, Tower A, The Millenia
1 & 2 Murphy Road, Ulsoor
Bengaluru – 560008
Karnataka, India
intuitive.com

CIN: U62099KA2014FTC146332

Tel: + 91 80 455 05 100
Fax: +91 80 455 05 126

Date: 12-03-2025

To Whomsover it may concern

Subject: Compatibility of TS7000dv Operating Table with da Vinci® Xi™ System

This is to certify that TS7000dv Surgical Table manufactured by Baxter Medical Systems GmBH, Germany, is compatible with the da Vinci® Xi™ System.

The TS7000 dv is the only Surgical Table which has Integrated Table Motion function compatible with the da Vinci® Xi™ System that enables the surgeon to reach different angles and reposition the patient during the procedure to optimize access, exposure and reach.

A copy of the product catalog is enclosed for reference.

Signature: Anuj Mittal *Electronically signed by: Anuj Mittal Date: Mar 13, 2025 16:04 GMT+5.5*

Email: anuj.mittal@intusurg.com
Title: Senior Director Finance
Company: Intuitive Surgical India Pvt Ltd

AUTHORIZED SIGNATORY

Baxter

PROPRIETARY ARTICLE CERTIFICATE

To whom it may concern:

This is to certify, based on the data available in the market, that following product sold under the name Surgical Table (Product Code-TS7000dv) is proprietary product of Baxter:

The above product is manufactured by:
Legal Manufacturer:

Baxter Medical Systems GmbH + Co. KG
Carl-Zeiss-Straße 7-9, 07318 Saalfeld,Germany

Actual Manufacturer:

Baxter Medical Systems GmbH + Co. KG
Carl-Zeiss-Straße 7-9, 07318 Saalfeld,Germany

Marketed in India by wholly owned subsidiary:
Baxter India Pvt. Ltd.
5th Floor, Tower A, Building 9
DLF Cyber City, DLF Phase III
Gurgaon – 122002, Haryana

Should you have additional questions, please do not hesitate to contact our local Baxter representatives or business partners.

Thank you and with best regards,

Yours sincerely,

Digitally signed by Gordon Teng
DN: cn=Gordon Teng, o=Baxter, ou=Care Solutions, email=gordon_teng@baxter.com, c=CN
Date: 2024.03.07 23:12:45 +08'00'

Global Surgical Solutions Division
Asia Marketing Manager

Hill-Rom Services Pte. Ltd. (Co./GST Reg. No. 200723482K)
1 Yishun Avenue 7
Singapore 768923

hillrom.com
Tel.: +65 6499 7350
Fax: +65 6499 7351

Specification for the item-Surgical WorkStation

An integrated RF, with Argon and Kinetic energy surgical platform which can dissect, coagulate and seal the tissues during open and laparoscopic surgeries. System should comprise of below Type of Module Energies.

1. RF Energy Platform -Electro surgery unit with Thermo fusion (Vessel Sealing)

- Radio Frequency Energy Platform High End Electro Surgical Generator unit with Vessel Sealing facility should be microprocessor controlled, US-FDA & European Certificate marked in accordance with the medical devices directive (93/42/EEC) & should comply with the requirement of the medical device directive of class I equipment and electromagnetic compatibility.
- The Electro surgical generator should be **400-watt touch screen / touch pad display** with 15 digital signal processors.
- Unit should facilitate functions of monopolar, bipolar & vessel sealer with in-built regulated power supply adapter for bipolar resection.
- Special bipolar mode for coagulation of vascular tissue (Vessel Sealing) up to 7 mm with **Reusable / Single use Hand instrument** for open as well laparoscopic surgeries & should have US- FDA approval for 7mm Vessel.
- Unit should have a Step guide suggesting appropriate setting configurations for every instrument and application.
- The system should make **25 million measurements / sec** for better tissue effect and should measure tissue impedance through power peak system.
- System should have wifi compatibility for future OR integration.
- Unit should be plug & play with **4 or more** universal multi-functional sockets to accommodate any instrument.
- System should have remode function to allow user to access **2- 6 sub programs** directly from the sterile field.
- Unit should have high cut mode for monopolar modalities
- Each socket should support the Autostart function for bipolar instruments.
- Unit should have the facility for socket exchange.
- Unit should have Soft Coagulation mode with quick start function for any open or laparoscopic application
- Unit should have Precise Sect mode for optimized dissection in open or laparoscopic cases
- The generator should work on a supply voltage of 100 – 120 VAC & 220 – 240 VAC
- Power consumption at Max HF power should be 550 watts with max pulse power consumption of 1600 watts.
- Should have a special Coagulation mode called "Thermoseal" with auto start function for highly vascularized tissue bundles and vessels upto 7mm diameter and min. burst 360mmHg burst pressure.
- Unit should have an Auto Cut bipolar mode to facilitate bipolar cutting instruments.
- Supply frequency should be in the range of 50 -60 Hz.
- Unit should have the **optional facility** to store 1800 programmes or applications.
- Unit should have the facility to show the active instruments on the screen display.
- The generator should have an inbuilt feature of accessory assignment.
- The unit should have high cut bipolar to facilitate bipolar resectoscopes.
- The generator should be supplied with Argon plasma coagulation unit having forced APC, pulsed APC and precise APC modes.
- The generator should be supplied with Hydrojet to facilitate use of unique hybrid technology instruments for all Surgical Modalities.

Dr Ankur Verma
HoD, Deptt. of Surgical Oncology &
In-charge Common Equipment
Technical Expert Procurement (Goods), KSSSCI

Joint Director (MM), KSSSCI

Finance Officer, KSSSCI

Addi.Prof. Akshay Anand,
Prof. General Surgery, KGMU
(Nominee of Director & External Expert)

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Professor & Head of Radiation
Oncology PGIMS Chandigarh
(External Expert)

Prof. P.K. Das
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RMLIMS (External Expert)
Prof. (Dr.) Pravin Kumar Das
Professor & Head
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Dr. RMLIMS, Lucknow

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- Unit must be compatible & Supplied with Intelligent smoke evacuation module and suction module. from Same OEM
- Unit should support neutral electrode.
- **Following essential accessories to be supplied as a part of Radio Frequency Energy Platform High End Electro Surgical Generator unit with Vessel Sealing facility_from Same Single OEM and Affidavit related to the 100% compliance of offered accessories as per nomenclature mentioned below – single or reusable along with mentioned qty and offered of same O.E.M should be provided, else bid will be rejected**
  a) **Water resistant or 100% Washable (IPX8) Footswitch** Monopolar & Bipolar both with facility for swapping between programs with mandatary minimum shelf life of 500 Procedures – **1Nos.**
  b) Reusable Monopolar cable for Endoscopic instruments with mandatary minimum shelf life of 100 Procedures – **2 Nos, if disposable** then **200 Pcs to perform 100 procedures** by each cable
  c) Reusable Bipolar Cable for reusable bipolar forcep with mandatary minimum shelf life of 100 Procedures – **2 Nos, if disposable** then **200 Pcs to perform 100 procedures** by each cable
  d) Reusable Bipolar forcep straight & Bayonet non sticky 01 each with mandatary minimum shelf life of 100 Procedures – **1 Nos, if disposable then 100 Pcs each of Straight & Bayonet non sticky Bipolar Forcep (200 Pcs) to perform 100 procedures by both forcep**
  e) **Reusable / Single Use Thermo fusion / Vessel Sealing** hand instrument for **Lap surgeries** (for vasculatures up to 7mm) LAP forceps, Maryland, semi-deep ribbed, shaft ø 5 mm, non-adhesive coating, length 340 mm; with connecting cable 4 m and MF plug, complete instrument with mandatary minimum shelf life of **100 Procedures – 1 Nos, if disposable** then **100 Pcs to perform 100 procedures**
  f) **Reusable / Single Use Thermo fusion / Vessel Sealing** hand instrument for **Open surgeries** (for vasculatures up to 7mm) bent 18°, smooth, length 200 mm; with connecting cable 4 m and MF plug, with thermal insulation, for open surgical procedures, e.g. **intestinal surgery** with mandatary minimum **shelf life of 100 Procedures – 1 Nos, if disposable** then **100 Pcs to perform 100 procedures**
  g) **Reusable / Single Use Thermo fusion / Vessel Sealing** hand instrument for **Open surgeries** (for vasculatures up to 7mm) bent 23°, smooth, length 150 mm; with connecting cable 4 m and MF plug, with ceramic coating, e.g. for **thyroidectomy** , with mandatary minimum shelf life of 100 Procedures – **1 Nos, if disposable** then **100 Pcs to perform 100 procedures**
  h) **Reusable / Single Use** Bipolar Lap Scissor for Laparoscopic surgery with cable, shaft ø 5 mm, length 350 mm; complete instrument with mandatary minimum shelf life of 100 Procedures – **1 Nos, if disposable** then **100 Pcs to perform 100 procedures**
  i) **Reusable / Single Use hand pencil** with Monopolar Electrodes – **1 Nos, if disposable** then **100 Pcs to perform 100 procedures**
  j) **Reusable / Single Use Patient plate** with equipotential ring - **1 Nos, if disposable** then **100 Pcs to perform 100 procedures**

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k) Workstation trolley with attached Suction unit from same OEM – 1Nos.

2. **Argon Plasma Coagulation**

For management of bleeding and devitalization of tissue abnormalities achieved by optimal coordination with RF generator

- Argon Plasma unit should be microprocessor controlled, US-FDA / European Certificate marked in accordance with the medical devices directive (93/42/EEC) & should comply with the requirement of the medical device directive of class I equipment and electromagnetic compatibility.
- The Argon Plasma Coagulation system should have automatic parameters setting for various types of instruments and automatic depth controlled plasma regulation.
- Should have three different APC modes suitable for different indications
  Precise APC – adjustment made using the effect settings
  Pulsed APC – adjustment made using the parameter power settings
  Forced APC – adjustment made using the parameter power settings
- Should have Adjustable argon flow rate from 0.1L/min to 8L/ min in steps of 0.1 L /min with automatic regulation of selected flow rate.
- Should have the facility to use Argon plasma coagulation and monopolar coagulation simultaneously
- Should have automatic monitoring of flow rate and Argon supply and auto purge facility. It should have the facility to connect with central gas supply.
- Should give visual display of argon gas bottle content and should give Acoustic alarm when bottle content reaches a minimum.
- Should have facility for activation of unit by foot pedal of the Electro Surgical unit.
- Should have facility to use in double balloon endoscopy procedures.
- Should have facility for Argon supported cutting and coagulation.
- **Following essential accessories to be supplied as a part of Argon Plasma** from Same OEM only.
  a) Argon assisted cutting instrument for open surgery and laparoscopic surgery - 01 Nos each
  b) Imported Argon Cylinder with Pressure reducer – 02 Nos
  c) Imported Pressure reducer for argon cylinder – 01 Nos

3. Water Jet Tissue Dissection System

For management of separating the different tissue types with their varying elasticity and firmness with the help of adjusted water pressure based on the kinetic energy principle.

- Waterjet Unit should be, US-FDA & European Certificate marked in accordance with the medical devices directive (93/42/EEC) & should comply with the requirement of the medical device directive of class I equipment and electromagnetic compatibility.
- Should have pressure range:1–80 bars & Volume flow:1–65ml/min. It should indicate delivered fluid vol.
- Should adapt any sterile saline solution bag (disposable) as separation medium.

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- Should be integrated with Electro surgical workstation with other accessories and facility to connect Monopolar coagulation with the applicator
- Should have facility to individually configure programs for different surgeries.
- Water jet activation should be via footswitch and Remote facility for switching between two different user settings.
- Should have facility for various applicators to be used in Laparoscopy, flexible endoscopy and open surgeries.
- **Following essential accessories to be supplied as a part of Waterjet energy source** from Same OEM only.
  a) Water Jet accessories / applicator for Laparoscopy and open surgery - 02 Nos Each
  b) Water Jet pump cart edge – 02 Box (Box of 10 Pcs)

4. Automatic Smoke Evacuation Unit

- The smoke plume evacuation system should be microprocessor controlled, US-FDA and / or European Certificate marked in accordance with the medical devices directive (93/42/EEC) & Electro Surgical Unit should comply with the requirement of the medical device directive of class I equipment and electromagnetic compatibility.
- The smoke plume evacuation system should be compatible with Electrosurgical Units for smooth functioning and ergonomics.
- The smoke plume evacuation system should be able to extract and filter smoke and aerosol- laden air during surgical procedures & should be also able to filter COVID -19 like viruses and other microorganism present in surgical smoke generated during the procedure.
- The system should have a functional 5.7 inches touch screen display for better visibility& ease of control & display should be able to show settings, operating modes, filter run-time and information messages for the user.
- The System should have Bi-Turbo technology for effective filtration, should have ULPA-15 filter (5 stage filter protection) and active carbon filters & should also have ability to remove 99.9995% of all 0.1µm particles.
- The system filter should have maximum output of 730 l/min & have the ability to give a notification when volume flow of more than 300l/min is reached.
- The system should have ability to be used along with any electrosurgical unit, Laser and ultrasound devices & system should have automatic activation feature, no need of any additional footswitch for activation during monopolar electrosurgical applications.
- The system should display error if filter is not inserted to prevent damage & system should be able to used in vertical as well as horizontal way as per user needs.
- The system should have the ability to be fixed on the ceiling units (OT pendants) & should have the ability to be used with 2 instruments at the same time during any Surgical Procedures.
- The system should be able to used in open as well as lap surgical procedures & system noise development at 100% evacuation should be ≤ 59 dB as must have sound insulation cladding, integrated ducts and airborne sound absorbers for noise insulations.
- The user should be able to set critical features like - suction efficiency, standby suction efficiency as well as standby suction time in both lap and open surgery modes & should have footswitch activation facility for laser and ultrasonic uses during procedure.
- The system should be provided with self-sealing water trap to protect the main filter cartridge from liquids & weight of system should be < 10kgs.
- Service life of the unit filter should be for:

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- **OPEN SURGERIES** = 40 hrs at 30% evacuation, 32 hrs at 60% evacuation, 25 hrs at 100% evacuation
- **LAPAROSCOPY SURGERIES** = 80 hrs at 30% evacuation, 60 hrs at 60% evacuation, 25 hrs at 100% evacuations
- The smoke evacuator unit should have an interface to connect it to the Electro Surgery system and should also be used as a "stand alone" unit.
- The unit should have provision to be activated via the interface to the Electro Surgery unit, and the time and type of activation can be selected and stored for every output socket and for every cutting or coagulation mode of each program of the Electro Surgery unit.
- The unit should additionally be activated manually using the START / STOP button or the footswitch. Deactivation should be controlled via the interface or by programming an after-run time.
- For safety reasons, an automatic function check of the unit and of the activation components connected to the unit should be performed after the mains switch has been switched on.
- A System display should indicate the filter level.
- Following essential accessories to be supplied as a part of Smoke Evacuation Unit from Same OEM only.
  a) One pedal foot switch AP & IP 100% water proof endorsed by IPX8 certification of same O.E.M with Automatic Activation Device - 01 Qty
  b) Main Filter for Smoke Evacuation Unit – 02 Qty
  c) Pre filter for smoke evacuator – 45 Pcs

Essential Criteria Mandatory for Technical Qualification of Bid

- Installation process should be performed by OEM trained service engineer/ service representative on OEM's letter head/ service report, with a mandatory provision of providing preventive service visits of OEM trained service engineer/ service representative quarterly per year till completion of warranty period (i.e. 20 visits for first five years) and further quarterly visit (04 visits/ year) till the completion of CMC period. The installation process must be completed by the OEM/ Service provider within 30 days of supply.
- The accessories/ consumables utilized during the period of installation process should be taken care FOC by OEM/ Service provider.
- Main Equipment as well as offered accessories / consumables should have brand name / model number embossed/ etched on the front side.
- Should have strong Installation base with latest Installation report (Not Older than 24 Months) of Surgical Workstation in various government reputed organization such as KGMU / DRRMLIMS / SGPGIMS / AIIMS Delhi/ AIIMS RISHIKESH / R.R Army Delhi.
- CMC should be offered by O.E.M letterhead, Installation, training process should be performed by O.E.M trained service engineers at their cost.
- Should have 5 Years Comprehensive onsite warranty & 5 years Comprehensive CMC thereafter with all accessories (Spare & Labour including all supplied items UPS batteries etc).

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Kalyan Singh Super Specialty Cancer Institute

कल्याण सिंह अति विशिष्ट कैंसर संस्थान

C.G. City ,Sultanpur Road, Lucknow-226002

सी०जी० सिटी, सुल्तानपुर रोड, लखनऊ- 226002

(An Autonomous Institute of the Govt. of Uttar Pradesh)

(उत्तर प्रदेश सरकार का स्वायत्तशासी संस्थान)

PROPRIETARY/ SPECIFIC BRAND GOODS CERTIFICATE

1.	Item/ Type/ Model No. required along with specification	Surgical Workstation
2.	If the item a spare part attachment or accessory for an existing equipment Yes / No (If yes, provide details)	No
3.	Name of the manufacturers/supplier of the item proposed by the indenter	Yes
4.	Are they sole manufacturers/ sold distributors of the Item Yes / No	No
5.	If there any other item with similar/equivalent specification available in the market to meet the job requirement envisaged. Yes / No (If Yes, explain why those alternatives cannot be procured and provide a comparative analysis of the functional advantages/cost-effectiveness of the recommended item)	Yes
6.	Efforts made to locate alternative sources of supply or use of substitutes	Yes
7.	Why open tender can't be resorted to, for locating alternative source.	Propriety item/Equipment
8.	Are the proprietary items certified to have reasonable rates? Yes / No (Attach supporting documents, if applicable)	Yes
9.	Any other justification for procuring the item from a single source	Not Applicable

I hereby certify that the above item is required to be procured on a proprietary/single-source basis, as the specified brand is the only known source that meets our functional requirements. Given the unique advantages of this brand, an open tender process would not serve any meaningful purpose in this case and can justifiably be waived.

(strike out whoever is not applicable)

Proprietary Article Certificate in the following form is to be provided by the Ministry/Department before procuring the goods from a single source under the provision of sub-Rule 166 (i) and 1 66 (iii) as applicable.

(i) **The Surgical Workstation is manufactured by M/s ERBE**

(ii) **No other make or model is acceptable for the following reasons:**

Because these are Proprietary products and are not manufactured by another company elsewhere in the world:

Kalyan Singh Super Specialty Cancer Institute

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Erbe VIO® 3, APC 3 and ERBEJET® 2, IES 3,

Bipolar Instruments, Nessy ® Omega, WATERJET® 2

Erbe Flexible Cryoprobes, Erbe FiAPC Probes

(iii) Concurrence of finance wing to the proposal vide: .....

(iv) Approval of the competent authority vide: .....

(Signature with date and designation of the indenting officer)

Technical Specification for Combined High-End EV Surgical Station with UHD 4 K Laparoscopic Vision Platforms & Complete Energy Platform

Complete EV Surgical Station should comprise of following Energy & Vision Source

A) **RF Energy Platform** -Electro surgery unit with Thermo-fusion (Vessel Sealing)
B) **Argon Plasma Coagulation -** For management of bleeding and devitalization of tissue abnormalities
C) **Water Jet Tissue Dissection System with Suction Module -** For management of separating the different tissue types with their varying elasticity and firmness with the help of adjusted water pressure based on the kinetic energy principle.
D) **Smoke Evacuation Unit** – For taking care of surgical smoke
E) **UHD Camera Head & Camera Control Unit (CCU)**
F) **4K UHD Telescopes**
G) **4K UHD Medical Grade Monitor 32" (Twin)**
H) **LED Light Source with fiber optic Cable**
I) **X Light Source for NIR Imaging**
J) **Illuminator**
K) **CO2 Gas Insufflator**
L) **Suction - irrigation pump**
M) **ICG**

1. RF Energy Platform -Electro surgery unit with Thermo-fusion (Vessel Sealing)

* Radio Frequency Energy Platform High End Electro Surgical Generator unit with Vessel Sealing facility should be microprocessor controlled, US-FDA / European Certificate marked in accordance with the medical devices directive (93/42/EEC) & should comply with the requirement of the medical device directive of class I Equipment and electromagnetic compatibility.
* The Electro surgical generator should be 400-watt touch screen display with 15 digital signal processors.
* Unit should facilitate functions of monopolar, bipolar & vessel sealer with in-built regulated power supply adapter for bipolar resection.
* Special bipolar mode for coagulation of vascular tissue (Vessel Sealing) up to 7 mmwith Reusable / Single use Hand instrument for open as well laparoscopic surgeries & should have US- FDA approval for 7mm Vessel.
* Unit should have a Step guide suggesting appropriate setting configurations for every instrument and application.
* The system should make 25 million measurements / sec for better tissue effect and should measure tissue impedance through power peak system.

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* System should have wifi compatibility for future OR integration.
* Unit should be plug & play with 5 or more universal multi-functional sockets to accommodate any instrument.
* System should have remote function to allow user to access 6 sub programs directly from the sterile field.
* Unit should have high cut mode for monopolar modalities
* Each socket should support the Auto Start function for bipolar instruments.
* Unit should have the facility for socket exchange.
* Unit should have Soft Coagulation mode with quick start function for any open or laparoscopic application
* Unit should have Precise Sect mode for optimized dissection in open or laparoscopic c a s e s
* The generator should work on a supply voltage of 100 - 120 VAC & 220 - 240 VAC
* Power consumption at Max HF power should be 550 watts with max pulse power Consumption of 1600 watts.
* Should have a special Coagulation mode called "Thermoseal" with auto start function for highly vascular zed tissue bundles and vessels up to 7mm diameter and min. burst 360mmHg burst pressure.
* Unit should have an Auto Cut bipolar mode to facilitate bipolar cutting instruments.
* Supply frequency should be in the range of 50 -60 Hz.
* Unit should have the facility to store 1800 programmers' or applications.
* Unit should have the facility to show the active instruments on the screen display.
The generator should have an inbuilt feature of accessory assignment.
The unit should have high cut bipolar to facilitate bipolar resectoscopes.
* The generator should be supplied with Argon plasma coagulation unit having forced APC, pulsed APC and precise APC Modes
The generator should be supplied with Hydrojet to facilitate use of unique hybrid technology instruments for all Surgical Modalities.
* Unit must be compatible & Supplied with Intelligent smoke evacuation module and suction module. from Same OEM
* Unit should support neutral electrode.
*** Following essential accessories to be supplied as a part of Radio Frequency Energy Platform High End Electro Surgical Generator unit with Vessel Sealing facility from Same Single OEM and Affidavit related to the 100% compliance of offered accessories as per nomenclature mentioned below - single or reusable along with mentioned qty and offered of same O.E.M should be provided, else bid will be rejected**

a) Water resistant or 100% Washable (IPX8) Footswitch Monopolar & Bipolar both with facility for swapping between programs with mandatory minimum shelf life of 500 Procedure - 1Nos.

b) Reusable Monopolar cable for Endoscopic instruments with mandatory minimum shelf life of 50 -100 Procedures - 2 Nos
c) Reusable Bipolar Cable for reusable bipolar forceps with mandatory minimum shelf life of 50 -100 Procedures - 5 No

Dr Ankur Verma HoD, Deptt. of Surgical Oncology, In-Charge Common Equipment Technical Expert Procurement (Goods), KSSSCI	Prof. P.K. Das Prof & Head, Anaesthesiology & CCM, RMLIMS (External Expert)	Concurrence through mail Dr. Rakesh Kapoor Professor & Head of Radiation Oncology PGIMS Chandigarh (External Expert)	Addi. Prof. Akshay Anand, Prof. General Surgery, KGMU (Nominee of Director & External Expert)

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d) Reusable Bipolar forcep straight & Bayonet non sticky 02 each with mandatory minimum shelf life of 50-100 Procedures
e) Reusable Thermo-fusion / Vessel Sealing hand instrument for Lap surgeries (for vasculatures up to 7mm) LAP forceps, Maryland, semi-deep ribbed, shaft @ 5 mm, non-adhesive coating, length 340 mm; with connecting cable 4 m and MF plug, complete instrument with mandatory minimum shelf life of 50 - 100Procedures - 2 Nos
f) Reusable Thermo-fusion / Vessel Sealing hand instrument for Open surgeries (for vasculatures up to 7mm) bent 18°, smooth, length 200 mm; with connecting cable 4 m and MF plug, with thermal insulation, for open surgical procedures, e.g., intestinal surgery with mandatory minimum shelf life of 50 - 100 Procedures - 4 Nos,
g) Single Use Tissue Navigation Instrument for Cutting & Sealing both Lap & Open Surgery 10 Pcs each
h) Reusable Bipolar Lap Scissor for Laparoscopic surgery with cable, shaft $ 5 mm, length 350 mm; complete instrument with mandatory minimum shelf life of 50 - 100 Procedures - 02 Nos
i) Single Use hand pencil with Monopolar Electrodes - disposable 100 Pcs to perform 100 procedures
j) Single Use Patient plate with equipotential ring - disposable 100 Pcs to perform 100 procedures
k) Workstation trolley with attached Suction unit from same OEM - 1Nos.

2. Argon Plasma Coagulation

For management of bleeding and devitalization of tissue abnormalities achieved by optimal coordination with RF generator

* Argon Plasma unit should be microprocessor controlled, US-FDA / European Certificate marked in accordance with the medical devices directive (93/42/EEC) & should comply with the requirement of the medical device directive of class I equipment and electromagnetic compatibility.
* The Argon Plasma Coagulation system should have automatic parameters setting for various types of instruments and automatic depth controlled plasma regulation.
* Should have t h r e e different APC modes suitable for different indicationsPrecise APC - adjustment made using the effect settings Pulsed APC - adjustment made using the parameter power settings Forced APC - adjustment made using the parameter power settings
* Should have Adjustable argon flow rate from 0.1L/min to 8L/ min in steps of 0.1 L /min with automatic regulation of selected flow rate.
* Should have the facility to use Argon plasma coagulation and monopolar coagulation simultaneously
* Should have automatic monitoring of flow rate and Argon supply and auto purge facility. It should have the facility to connect with central gas supply.
* Should give visual display of argon gas bottle content and should give Acoustic alarm when bottle content reaches a minimum.
* Should have facility for activation of unit by foot pedal of the Electro Surgical unit.
* Should have facility to use in double balloon endoscopy procedures.
* Should have facility for Argon supported cutting and coagulation.

*** Following essential accessories to be supplied as a part of Argon Plasma from Same OEM only.**

a) Argon assisted cutting instrument for open surgery and laparoscopic surgery – 01 Nos each.
b) Imported Argon Cylinder with Pressure reducer - 02 Nos
c) Imported Pressure reducer for argon cylinder - 01 Nos

Dr Ankur Verma
HoD, Deptt. of Surgical Oncology,
In-Charge Common Equipment
Technical Expert Procurement
(Goods), KSSSCI

Prof. P.K. Das
Prof & Head,
Anaesthesiology
(External Expert)

Concurrence through mail
Dr. Rakesh Kapoor
Professor & Head of Radiation
Oncology PGIMS Chandigarh
(External Expert)

Addl. Prof. Akshay Anand,
Prof. General Surgery, KGMU
(Nominee of Director
& External Expert)

Prof. (Dr.) Pravin Kumar Das
Professor & Head
Dept. of Anaesthesiology
Dr. RMLIMS, Lucknow

JD (MM), KSSSCI

Finance Officer, KSSSCI

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3. Water Jet Tissue Dissection System

For management of separating the different tissue types with their varying elasticity and firmness with the help of adjusted water pressure based on the kinetic energy principle.

* Water jet Unit should be, US-FDA & European Certificate marked in accordance with the medical devices directive (93/42/EEC) & should comply with the requirement of the medical device directive of class I equipment and electromagnetic compatibility.
* Should have pressure range:1-80 bars & Volume flow:1-65ml/min. It should indicate delivered fluid vol.
* Should adapt any sterile saline solution bag (disposable) as separation medium.
* Should be integrated with Electro surgical workstation with other accessories and facility to connect Monopolar coagulation with the applicator
* Should have facility to individually configure programs for different surgeries.
* Water jet activation should be via footswitch and Remote facility for switching between two different user settings
* Should have facility for various applicators to be used in Laparoscopy, flexible endoscopy and open surgeries.

*** Following essential accessories to be supplied as a part of Waterjet energy source from Same OEM only.**

a) Water Jet accessories / applicator for Laparoscopy and open surgery - 02 Nos Each
b) Water Jet pump cart edge - 02 Box (Box of 10 Pcs)

4. Automatic Smoke Evacuation Unit

- The smoke plume evacuation system should be microprocessor controlled, US-FDA and / or European Certificate marked in accordance with the medical devices directive (93/42/EEC) & Electro Surgical Unit should comply with the requirement of the medical device directive of class I equipment and electromagnetic compatibility.
- The smoke plume evacuation system should be compatible with already installed VIO Surgical Workstation & Electrosurgical Units and should be fitted into same station trolley for smooth functioning and ergonomics.
- The smoke plume evacuation system should be able to extract and filter smoke and aerosol- laden air during surgical procedures & should be also able to filter COVID -19 like viruses and other microorganism present in surgical smoke generated during the procedure.
- The system should have a functional 5.7 inches touch screen display for better visibility& ease of control & display should be able to show settings, operating modes, filter run-time and information messages for the user.
- The System should have Bi-Turbo technology for effective filtration, should have ULPA-15 filter (5 stage filter protection) and active carbon filters & should also have ability to remove 99.9995% of all 0.1µm particles.
- The system filter should have maximum output of 730 l/min & have the ability to give a notification when volume flow of more than 300l/min is reached.

Dr Ankur Verma
HoD, Deptt. of Surgical Oncology,
In-Charge Common Equipment
Technical Expert Procurement
(Goods), KSSSCI

Prof. P.K. Das
Prof & Head,
Anaesthesiology
& CCM, RMLIMS
(External Expert)

Prof. (Dr.) Pravin Kumar Das
Professor & Head
Dept. of Anaesthesiology
Dr. RMLIMS, Lucknow

JD (MM), KSSSCI

Dr. Rakesh Kapoor
Professor & Head of Radiation
Oncology PGIMS Chandigarh
(External Expert)

Addl. Prof. Akshay Anand,
Prof. General Surgery, KGMU
(Nominee of Director
& External Expert)

Finance Officer, KSSSCI

- The system should have ability to be used along with any electrosurgical unit, Laser and ultrasound devices & system should have automatic activation feature, no need of any additional footswitch for activation during monopolar electrosurgical applications.
- The system should display error if filter is not inserted to prevent damage & system should be able to use in vertical as well as horizontal way as per user needs.
- The system should have the ability to be fixed on the ceiling units (OT pendants) & should have the ability to be used with 2 instruments at the same time during any Surgical Procedures.
- The system should be able to used in open as well as lap surgical procedures with All required Accessories from same OEM only & system noise development at 100% evacuation should be ≤ 59 dB as must have sound insulation cladding, integrated ducts and airborne sound absorbers for noise insulations.
- The user should be able to set critical features like - suction efficiency, standby suction efficiency as well as standby suction time in both lap and open surgery modes & should have footswitch activation facility for laser and ultrasonic uses during procedure.
- The system should be provided with self-sealing water trap to protect the main filter cartridge from liquids & weight of system should be < 10kgs.
- Service life of the unit filter should be for
- **OPEN SURGERIES**
- 40 hrs at 30% evacuation
- 32 hrs at 60% evacuation
- 25 hrs at 100% evacuation
- The smoke evacuator unit should have an interface to connect it to the Electro Surgery system and should also be used as a "stand alone" unit.
- The unit should have provision to be activated via the interface to the Electrosurgery unit, and the time and type of activation can be selected and stored for every output socket and for every cutting or coagulation mode of each program of the Electro surgery unit.
- The unit should additionally be activated manually using the START / STOP button or the footswitch. Deactivation should be controlled via the interface or by programming an after-run time.
- For safety reasons, an automatic function check of the unit and of the activation components connected to the unit should be performed after the mains switch has been switched on.
- A System display should indicate the filter level.
- The smoke evacuator unit should be supplied with essential accessory Filter Cartridge.
- The smoke evacuator unit should be supplied with essential accessories of same O.E.M
- One pedal foot switch AP & IP 100% waterproof endorsed by IPX8 certification of same O.E.M.

5. UHD 4K Laparoscopy Set with ICG Platform

Dr Ankur Verma
HoD, Deptt. of Surgical Oncology,
In-Charge Common Equipment
Technical Expert Procurement
(Goods), KSSSCI

Prof. P.K. Das
Prof & Head,
Anaesthesiology
(External Expert)

Concurrence through mail
Dr. Rakesh Kapoor
Professor & Head of Radiation
Oncology PGIMS Chandigarh
(External Expert)

Addl. Prof. Akshay Anand,
Prof. General Surgery, KGMU
(Nominee of Director
& External Expert)

Prof. (Dr.) Pavan Kumar Das
Professor & Head
Dept. of Anaesthesiology
Dr. RMLIMS, Lucknow

JD (MM), KSSSCI

Finance Officer, KSSSCI

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UHD Camera Head & Camera Control Unit (CCU)

* Ultra High-Definition (HD) Laparoscopic camera system should have following features:
* Pure Digital UHD technology with UHD video of 3840 x 2160p native resolution.
* Should have progressive scan technology.
* Consistent use of 16:9 formats for input and output for HDTV function
* Single CMOS having hi-fidelity image transmission with digital conversion at camera head itself.
* System should be able to optimize all the settings and should have surgery presets for use in different surgeries as per telescope size.
* Should be compatible for remote controlled operation of various features.
* Image Sensor: 3 CMOS ,1 ICG
* AGC Microprocessor controlled.
* Video Outputs HDTV-DVI-D/3GSDI/HDSDI
* Dedicated Full UHD (3840*2160p) medical grade USB recording system for still images and video recording.
* Camera should have function to identify blood vessels using edge & spectral enhancement algorithms.
* Camera settings (e.g., white balance, zoom, gain, sharpness etc.) should be possible directly from the camera head buttons.
* The system should have **digital zoom** and **optional optical zoom** to enhance the quality of image size & cross specialty standardization of the camera system, regardless of the telescope used.

UHD IR Telescope 10mm (0 & 30 degree)

* 4K Optics for better contrast & color reproduction.
* Large field of view and depth of focus.
* Completely distortion free
* Laser welded, Sapphire tip and three tube design. Autoclavable type
* Telescope should have outstanding sharpness at periphery as well as at center of the image.

UHD IR Telescope 5 / 5.5mm (0 & 30 degree)

* HD/ Optics for better contrast & color reproduction.
* Large field of view and depth of focus.
* Laser welded, Sapphire tip a n d t h r e e t u b e design.
* Completely distortion free
* Autoclavable type and should be supplied with autoclavable tray.

ICG

- Should supply with Fluorescence Imaging technology for open procedure and Laproscopic procedure
- Video Processor and Illuminator
- The VPI shall be able to provide the VIS (visible) and NIR (near-infrared) illumination to the surgical endoscope via a flexible light guide simultaneously.
- The VIS light source shall be consisted of light emitting diode array.
- The NIR light source shall be consisted of NIR laser diode array.

Dr Ankur Verma
HoD, Deptt. of Surgical Oncology,
In-Charge Common Equipment
Technical Expert Procurement
(Goods), KSSSCI

Prof. P.K. Das
Prof & Head,
Anaesthesiology
(External Expert)

Prof. (Dr.) Pravin Kumar Das
Professor & HOD
Dept. of Anaesthesiology
Dr. RMLIMS, Lucknow

JD (MM), KSSSCI

Concurrence through mail
Dr. Rakesh Kapoor
Professor & Head of Radiation
Oncology PGIMS Chandigarh
(External Expert)

Addl. Prof. Akshay Anand,
Prof. General Surgery, KGMU
(Nominee of Director
& External Expert)

Finance Officer, KSSSCI

- The VPI shall be able to generate simultaneous real-time UHD video color and ICG fluorescence images as an overlay in the same image.
- NIR light source shall be triggered by the button on the camera.
- It shall have an indicator in the monitor when NIR light source is on.
- Video output signals: 2 UHD-SDI, 1 DVI
- It shall be able to convert the video format between UHD-SDI and 3G-SDI.
- The device shall have features for easy use at the front panel for quick operation and setting purpose:
- Illumination button
- White balance button
- Menu setting
- An indication icon shall be shown on the monitor to indicate whether the white balance is completed.
- The device shall be able to generate and display 4 different modes of images on the monitor simultaneously.
- White Light mode - displays the image in white light.
- Black and White Fluorescence mode - displays the NIR Fluorescence image in greyscale and displays others in black.
- NIR and VIS overlay mode - displays the NIR fluorescence which is superimposed in pseudo-color (green) on a white light image
- Color-segmented Fluorescence mode - displays the NIR fluorescence intensities in a color spectrum that is superimposed on a white light image
- Indication icons shall be shown on the monitor to differentiate the 4 modes of display.

UHD Monitor – 32"

- It should be supplied with double arm UHD monitor stand with double UHD 4K monitors.

* The Monitor should have a 32" display and full glass front panel.
* The monitor should have a native resolution on 4K ultra high definition (3840 x 2160 pixels)
* The monitor should be of medical grade with ultra-flat compact housing for display and power supply in extremely robust light metal construction.
* The monitor should be maintenance-free with special cooling, completely without mechanical moving parts.
* The monitor should comply with IEC 60601-1: 2012, IEC 60601-1-2:2020.
* The monitor should have a protective panel having aluminum silicate glass with anti- reflective coating and anti-fingerprint coating.
* The monitor should have a color depth of 1.07 billion colors & contrast ratio of 1700:
* The monitor should have Brightness of max. 650 cd/m? & a Viewing angle of 178°/178°
* The monitor should have optical bonding.
* The monitor should have following input Interfaces, 4x SDI-IN (2x max. 12G-capable, 2x max. 3G-capable), 1x 12G-SDI loop through, 2x HDMI 2.0 IN, 1x HDMI 2.0 loop-through.
* The monitor should have integrated OSD settings LED Light Source
* The white light LED source should have a color temperature of 6000K.

Dr Ankur Verma
HoD, Deptt. of Surgical Oncology,
In-Charge Common Equipment
Technical Expert Procurement
(Goods), KSSSCI

Prof. P.K. Das
Prof & Head,
Anaesthesiology
& CCM, RMLIMS
(External Expert)

Prof. (Dr.) Pravin Kumar Das
Professor & Head
Dept. of Anaesthesiology
Dr. RMLIMS, Lucknow

Concurrence through mail
Dr. Rakesh Kapoor
Professor & Head of Radiation
Oncology PGIMS Chandigarh
(External Expert)

Addl. Prof. Akshay Anand,
Prof. General Surgery, KGMU
(Nominee of Director
& External Expert)

JD (MM), KSSSCI

Finance Officer, KSSSCI

* The lamp lifetime of the light source should be greater than 50,000 hours.
* The light source should have automatic or manual dimming method.
* The light source should have a BNC video input connector.
* The light source should have overheating and fibre optic connection safety feature. Light Guide Cable
The system should come with an autoclavable fibre optic cable of 4.8 mm diameter, must be Autoclavable: High Resistance protection tube, reduced diameter with high fibre density, Small bending radius for comfortable use, min. 230 cm Length.

X-Light (source for NIR imaging);

- Light source with Near InfraRed/ICG technology
- Optional accessories Fiber optic light cable Ø3.5mm (no. 20820-000) Fiber optic light cable Ø4.8mm (no. 20821-000)
- Mains voltage 100–240 V
- Mains frequency 50–60 Hz
-
- Operating conditions Temperature: +10° C to +35° C
- Humidity: 5%–85% RH (without condensate) Atmospheric pressure: 70–106 kPa
- Transport and storage conditions Temperature: -10° C to +55° C
- Humidity: 5%–95% RH (without condensate) Atmospheric pressure: 50–106 kPa
- Manufacturer Erbe Vision GmbH, Eisenbahnstrasse 102, 78573 Wurmlingen, Germany E-mail: info@erbevision.com
- Distributor Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany Classification (according to MDR 2017/745) Class I
- Protection class CF

VIRON XO Illuminator

It should be applied along with working length 150mm.

LED Light Source with Fiber Optic Cable

- Color rendering index (CRI):
- Number of light outputs: min. 1
- Frequency: 50-60 Hz.
- Power consumption 220 VA.

Dr Ankur Verma
HoD, Deptt. of Surgical Oncology, In-Charge Common Equipment Technical Expert Procurement (Goods), KSSSCI

Prof. P.K. Das
Prof & Head, Anaesthesiology & CCM, RMLIMS (External Expert)
Prof. (Dr.) P.K. Das
Professor & Head
Dept. of Anaesthesiology
Dr. RMLIMS, Lucknow

Conveyance through mail
Dr. Rakesh Kapoor
Professor & Head of Radiation Oncology PGIMS Chandigarh (External Expert)

Addl. Prof. Akshay Anand,
Prof. General Surgery, KGMU (Nominee of Director & External Expert)

JD (MM), KSSSCI

Finance Officer, KSSSCI

- Dimensions (WxHxD)
- Certified to: IEC 60601-1, IEC 60601-2-18, CE according to MDD, protection class 1 / safety class electric shock at least CF; with KS light cables
- Fiberoptic cable for use with the cold light source offered Length min. 2.5m
- Autoclavable fiber optic cable with a diameter of 4.8 mm
- Adjustable light source
- Monitoring the LED function (e.g. service life if necessary)
- Can/must the bulb be replaced?
- BNC video input connector
- Overheating and fiber optic connection protection
- At least 50,000 hours of lamp life
- Automatic exposure control mode that adjusts the aperture depending on the available light
- What status indicators are there on the processor or the light source?
- Automatic switch-off of the light source when the cold light cable is disconnected or mechanical shutter
- LED cold light source with high-performance LEDs for white light applications with high light intensity.
- No use of laser light, thus eliminating the need for any laser safety measures

UHD Medical Video Recorder

* Should be a modular and preconfigured system for intraoperative documentation of still images and videos
* Should record still images and videos in 4K UHD (3860 x 2160)
* Video recording format should be MPEG 4 AVC/H.265
* Still image recording format should be BMP/TIFF/JPEG
* Compatible media should be Internal HDD/Blu-ray disks/DVD/USB stick
* Internal HDD capacity should be at least 4 TB
* Should have basic functions for editing of still images & videos
* Should have integrated file viewer for still images & videos
* Should have structured & clear user guidance to fill patient's data (ID, procedure name, sex, Surgeon's name, etc.), and have access for functions like play, recording start-stop, pause, capture. Supported colour system should be PAL, NTSC
* Should have an in-built display monitor or separate HD monitor should be provided which allows to record or capture in real time
* Should have video input signals- 12GSDI, Quad SDI, HDMI
* Should be able to record the fluorescence images
* The system should have supplied with all the accessories and inter component interface devices / switches for integration of system, ready for to interface with the hospital central IT network through LAN.
* Power Supply- 230VAC, 50-60Hz

CO2 Insufflator – Indigenous (MII)

* Should have line voltage range of 170-260 volts.
* Should have frequency of 50Hz.
* Should have maximum power consumption up to 75VA.

Dr Ankur Verma
HoD, Deptt. of Surgical Oncology,
In-Charge Common Equipment
Technical Expert Procurement
(Goods), KSSSCI

Prof. P.K. Das
Prof & Head,
Anaesthesiology
& CCM, RMLIMS
(External Expert)

Prof. (Dr.) Pravin Kumar Das
Professor & Head
Dept. of Anaesthesiology
Dr. RML IMS, Lucknow

Dr. Rakesh Kapoor
Professor & Head of Radiation
Oncology PGIMS Chandigarh
(External Expert)

Addl. Prof. Akshay Anand,
Prof. General Surgery, KGMU
(Nominee of Director
& External Expert)

JD (MM), KSSSCI

Finance Officer, KSSSCI

* Should have CO2 medical grade (USP) insufflations medium.
* The LCD Display should show pressure, gas consumption settings and actual pressure.
* It should have pressure setting range between 1 to 25 mmHg.
* It should have a maximum of 30/40 L/min outlet for CO2 gas flow.
* It should have 3L/min fixed Veress CO2 flow.
* It should have 36-degree Celsius outlet of the trocar end for warmer (only for CO2)
* The unit should have operating environment range of 10 degree Celsius to 40 degree Celsius
* It should have dimensions of 160x330xx330mm
* It should have weight of at least 6 kg.

Suction - irrigation pump

* The suction irrigation pump should be a single unit.
* It should have a provision to customize/upgrade the user programs through software license keys.
* It should have Touch screen display for easy operation.
* It should have functions for distension, fluid aspiration and irrigation of body cavities.
* It should have monitoring of fluid deficit in laparoscopy.
* It should come with a pressure sensitive and wireless foot switch for easier operation.

Essential Criteria:

1. Demonstration Optional, Online or Physical or at hospital premises at OEM cost.
2. CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
3. CMC offered for the quoted equipment must be on OEM letterhead for further years. CMC offered on distributors / vendor letterhead will not be considered.
4. Installation process should be performed by OEM trained service engineer/ service representative on OEM's letter head/ service report, with a mandatory provision of providing preventive service visits of OEM trained service engineer/ service Representative quarterly per year till completion of warranty period (i.e. 20 visits for first five years) and further quarterly visit (04 visits/ year) till the completion of CMC period
5. The installation process must be completed by the OEM/ Service provider within 30 days of supply.
6. The accessories/ consumables utilized during the period of installation process should be taken care FOC by OEM/ Service provider.
7. The equipment complies with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility; all supporting documents must be provided.
8. Equipment should have brand name / model number embossed/ etched on the equipment.
9. In case of technical snag/ failure/ breakdown, the response time for Inspection should be within 24 Hour and repair within 5 days, otherwise provide a service machine until the period of recovery of breakdown of the unit. Failing which will attract penal action as per the decision of the University (Uptime guarantee of 95%).
10. Should have 5 Years Comprehensive onsite warranty & 5 years Comprehensive CMC thereafter with all ~~with~~ accessories (Spare & Labour including all supplied items UPS batteries AC etc).

Dr Ankur Verma
HoD, Deptt. of Surgical Oncology,
In-Charge Common Equipment
Technical Expert Procurement
(Goods), KSSSCI

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Prof & Head,
Anaesthesiology
& CCM, RMLIMS
(External Expert)

Prof. (Dr.) Pravin Kumar Das
Professor & Head
Dept. of Anaesthesiology
Dr. RMLIMS, Lucknow

(concurrence through mail)
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Oncology PGIMS Chandigarh
(External Expert)

Addl. Prof. Akshay Anand,
Prof. General Surgery, KGMU
(Nominee of Director
& External Expert)

JD (MM), KSSSCI

Finance Officer, KSSSCI

Kalyan Singh Super Specialty Cancer Institute

कल्याण सिंह अति विशिष्ट कैंसर संस्थान

C.G. City ,Sultanpur Road, Lucknow-226002

सी०जी० सिटी, सुल्तानपुर रोड, लखनऊ- 226002

(An Autonomous Institute of the Govt. of Uttar Pradesh)

(उत्तर प्रदेश सरकार का स्वायत्तशासी संस्थान)

PROPRIETARY/ SPECIFIC BRAND GOODS CERTIFICATE

1.	Item/ Type/ Model No. required along with specification	EV Workstation
2.	If the item a spare part attachment or accessory for an existing equipment Yes / No (If yes, provide details)	No
3.	Name of the manufacturers/supplier of the item proposed by the indenter	Yes
4.	Are they sole manufacturers/ sold distributors of the Item Yes / No	No
5.	If there any other item with similar/equivalent specification available in the market to meet the job requirement envisaged. Yes / No (If Yes, explain why those alternatives cannot be procured and provide a comparative analysis of the functional advantages/cost-effectiveness of the recommended item)	Yes
6.	Efforts made to locate alternative sources of supply or use of substitutes	Yes
7.	Why open tender can't be resorted to, for locating alternative source.	Propriety item/Equipment
8.	Are the proprietary items certified to have reasonable rates? Yes / No (Attach supporting documents, if applicable)	Yes
9.	Any other justification for procuring the item from a single source	Not Applicable

I hereby certify that the above item is required to be procured on a proprietary/single-source basis, as the specified brand is the only known source that meets our functional requirements. Given the unique advantages of this brand, an open tender process would not serve any meaningful purpose in this case and can justifiably be waived.

(strike out whoever is not applicable)

Proprietary Article Certificate in the following form is to be provided by the Ministry/Department before procuring the goods from a single source under the provision of sub-Rule 166 (i) and 1 66 (iii) as applicable.

(i) **The EV Workstation is manufactured by M/s ERBE**

(ii) **No other make or model is acceptable for the following reasons:**

Because these are Proprietary products and are not manufactured by another company elsewhere

Kalyan Singh Super Specialty Cancer Institute

कल्याण सिंह अति विशिष्ट कैंसर संस्थान

C.G. City ,Sultanpur Road, Lucknow-226002

सी०जी० सिटी, सुल्तानपुर रोड, लखनऊ- **226002**

(An Autonomous Institute of the Govt. of Uttar Pradesh)

(उत्तर प्रदेश सरकार का स्वायत्तशासी संस्थान)

Erbe VIO® 3, APC 3 and ERBEJET® 2,

TriSect Rapide® with VIO® 3 and ThermoSECT mode,

ERBECRYO® 2, IES 3, ESM 2, Viron X, endoCUT ® I and Q

Bipolar Instruments, Nessy ® Omega, WATERJET® 2

Erbe Flexible Cryoprobes, Erbe FiAPC Probes

(iii) Concurrence of finance wing to the proposal vide: .....

(iv) Approval of the competent authority vide: .....

(Signature with date and designation of the indenting officer)

power your performance.

Proprietary Certificate

To whom it may concern

Erbe VIO® 3 and APC 3

This is to certify that the Erbe VIO® 3 with attached Argon Plasma Coagulation system (APC 3), that provides facility to change between programs by a ReMode button, specially designed Cut and Coag modes for different medical and surgical disciplines, like softCOAG®, preciseSECT and dryCUT® and also three different variations in Argon Plasma outputs namely FORCED APC, PULSED APC® and PRECISE APC® are proprietary products, manufactured by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany and these products are not manufactured elsewhere.

Date 2019-06-12

Axel Retzlaff, Manager Regulatory Affairs

Proprietary Certificate

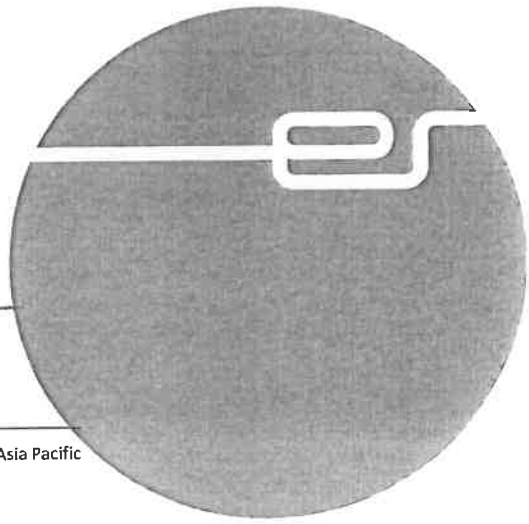
To whom it may concern

Erbe Bipolar PREMIUM Forceps

This is to certify that the listed Bipolar PREMIUM Forceps are proprietary products, manufactured by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany and these product are not manufactured elsewhere.

Article No.	Catalogue Description
20195-501	Bipolar forceps PREMIUM, straight, tip 0.2 mm, pointed, length 120 mm
20195-502	Bipolar forceps PREMIUM, straight, tip 0.4 mm, very fine, length 120 mm
20195-503	Bipolar forceps PREMIUM, straight, tip 0.7 mm, fine, length 120 mm
20195-504	Bipolar forceps PREMIUM, straight, tip 0.7 mm, fine, angled, length 120 mm
20195-505	Bipolar forceps PREMIUM, straight, tip 0.2 mm, pointed, length 185 mm
20195-506	Bipolar forceps PREMIUM, straight, tip 0.4 mm, very fine, length 185 mm
20195-507	Bipolar forceps PREMIUM, straight, tip 0.7 mm, fine, length 185 mm
20195-508	Bipolar forceps PREMIUM, straight, tip 1 mm, blunt, length 185 mm
20195-509	Bipolar forceps PREMIUM, straight, tip 1 mm, blunt, angled, length 185 mm
20195-510	Bipolar forceps PREMIUM, straight, tip 0.2 mm, pointed, length 200 mm
20195-511	Bipolar forceps PREMIUM, straight, tip 0.4 mm, very fine, length 200 mm
20195-512	Bipolar forceps PREMIUM, straight, tip 1 mm, blunt, length 200 mm
20195-513	Bipolar forceps PREMIUM, straight, tip 1 mm, blunt, angled, length 200 mm
20195-514	Bipolar forceps PREMIUM, straight, tip 2 mm, blunt, angled, length 200 mm
20195-515	Bipolar forceps PREMIUM, straight, tip 2 mm, blunt, length 230 mm
20195-516	Bipolar forceps PREMIUM, straight, tip 1 mm, blunt, angled, length 260 mm
20195-517	Bipolar forceps PREMIUM, straight, tip 2 mm, angled, length 260 mm
20195-518	Bipolar forceps PREMIUM, straight, tip 2 mm, blunt, length 280 mm e.g. for urology
20195-531	Bipolar forceps PREMIUM, bayonet, tip 0.2 mm, pointed, length 155 mm
20195-532	Bipolar forceps PREMIUM, bayonet, tip 0.4 mm, very fine, length 155 mm
20195-533	Bipolar forceps PREMIUM, bayonet, tip 0.7 mm, fine, length 155 mm
20195-534	Bipolar forceps PREMIUM, bayonet, tip 0.2 mm, pointed, length 170 mm
20195-535	Bipolar forceps PREMIUM, bayonet, tip 1 mm, blunt, length 170 mm
20195-536	Bipolar forceps PREMIUM, bayonet, tip 0.4 mm, very fine, length 200 mm
20195-537	Bipolar forceps PREMIUM, bayonet, tip 0.7 mm, fine, length 200 mm
20195-538	Bipolar forceps PREMIUM, bayonet, tip 1 mm, blunt, length 200 mm
20195-539	Bipolar forceps PREMIUM, bayonet, tip 1.2 mm, blunt, length 200 mm
20195-540	Bipolar forceps PREMIUM, bayonet, tip 2 mm, blunt, length 200 mm
20195-541	Bipolar forceps PREMIUM, bayonet, tip 1.2 mm, blunt, length 200 mm angled downwards
20195-542	Bipolar forceps PREMIUM, bayonet, tip 1.2 mm, blunt, length 200 mm angled upwards

20195-543	Bipolar forceps PREMIUM, bayonet, tip 0.2 mm, pointed, length 230 mm
20195-544	Bipolar forceps PREMIUM, bayonet, tip 0.4 mm, very fine, length 230 mm
20195-545	Bipolar forceps PREMIUM, bayonet, tip 0.7 mm, fine, length 230 mm
20195-546	Bipolar forceps PREMIUM, bayonet, tip 1 mm, blunt, length 230 mm
20195-547	Bipolar forceps PREMIUM, bayonet, tip 1.2 mm, blunt, length 230 mm
20195-548	Bipolar forceps PREMIUM, bayonet, tip 0.7 mm, fine, length 230 mm angled upwards
20195-549	Bipolar forceps PREMIUM, bayonet, tip 1.2 mm, blunt, length 230 mm angled upwards
20195-550	Bipolar forceps PREMIUM, bayonet, tip 0.7 mm, fine, length 230 mm angled downwards
20195-551	Bipolar forceps PREMIUM, bayonet, tip 0.2 mm, pointed, length 250 mm
20195-552	Bipolar forceps PREMIUM, bayonet, tip 0.4 mm, very fine, length 250 mm
20195-553	Bipolar forceps PREMIUM, bayonet, tip 0.7 mm, fine, length 250 mm
20195-554	Bipolar forceps PREMIUM, bayonet, tip 1 mm, blunt, length 250 mm
20195-555	Bipolar forceps PREMIUM, bayonet, tip 1.2 mm, blunt, length 250 mm
20195-556	Bipolar forceps PREMIUM, bayonet, tip 0.7 mm, fine, length 250 mm angled upwards
20195-557	Bipolar forceps PREMIUM, bayonet, tip 0.7 mm, fine, length 170 mm
20195-558	Bipolar forceps PREMIUM, bayonet, tip 2 mm, blunt, length 250 mm
20195-559	Bipolar forceps PREMIUM, bayonet, tip 2mm, blunt, length 170 mm
20195-560	Bipolar forceps PREMIUM, bayonet, tip 0.2 mm, pointed, length 200 mm
20195-561	Bipolar forceps PREMIUM, bayonet, tip 2 mm, blunt, length 230 mm



Erbe Elektromedizin GmbH
Waldhoernlestrasse 17
72072 Tuebingen, Germany

Date 2021-02-18

Natalie Zierhut, Business Manager Asia Pacific

Erbe Elektromedizin GmbH Waldhoernlestrasse 17 72072 Tuebingen Germany

Phone +49 7071 755-0
Fax +49 7071 755-179
info@erbe-med.com
erbe-med.com

CEO and President: Christian O. Erbe
Commercial Register Court Stuttgart
HRB 380137
VAT ID (USt-IdNr.): DE 146893422

Baden-Württembergische Bank
IBAN: DE27 6005 0101 7477 5011 35
BIC: SOLADEST600

Kreissparkasse Tübingen
IBAN: DE54 6415 0020 0000 0001 41
BIC: SOLADES1TUB

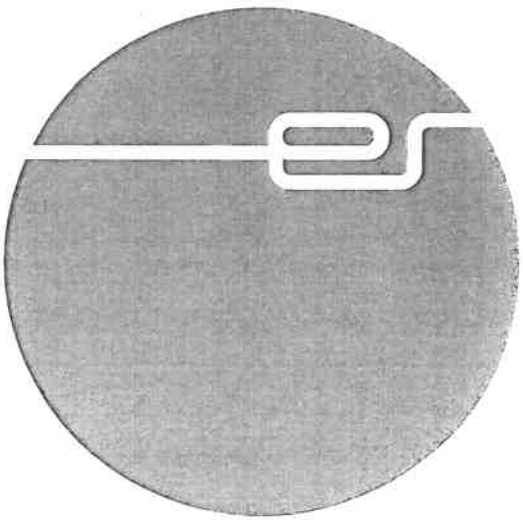
power your performance.

Proprietary Certificate

To whom it may concern

Erbe APC 3

This is to certify that the Erbe APC 3 is a proprietary product, manufactured by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany. We are the only manufacturer of this product and this is not manufactured by any other company elsewhere in the world.



Erbe Elektromedizin GmbH
Waldhoernlestrasse 17
72072 Tuebingen, Germany

Date 2022-06-09

Natalie Zierhut, Business Manager APAC & Spain

power your performance.

Proprietary Certificate

To whom it may concern

ERBECRYO® 2

This is to certify that the ERBECRYO® 2 and flexible ERBECRYO probes are proprietary products, manufactured by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany and these products are not manufactured elsewhere.

Date 2017-02-15

Axel Retzlaff, Director Regulatory Affairs

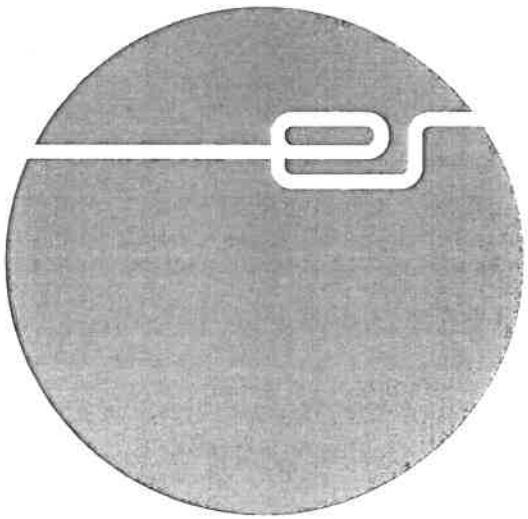
power your performance.

Proprietary Certificate

To whom it may concern

WATERJET® 2

This is to certify that the WATERJET 2 is a proprietary product, manufactured by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany. We are the only manufacturer of this product and this is not manufactured by any other company elsewhere in the world.



Erbe Elektromedizin GmbH
Waldhoernlestrasse 17
72072 Tuebingen, Germany

Date 2021-03-03

Natalie Zierhut, Business Manager Asia Pacific

erbe
power your performance.

Proprietary Certificate

To whom it may concern

IES 3 - Smoke evacuation unit

This is to certify that the IES 3 Smoke evacuation unitis a proprietary product, manufactured by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany. We are the only manufacturer of this product and this is not manufactured by any other company elsewhere in the world.

erbe

Erbe Elektromedizin GmbH
Waldhoernlestrasse 17
72072 Tuebingen, Germany

Date 2022-06-09

Natalie Zierhut, Business Manager APAC & Spain

power your performance.

Proprietary Certificate

To whom it may concern

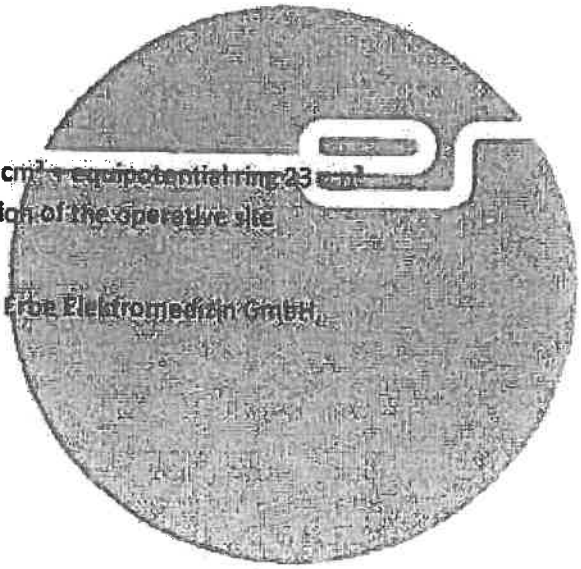
Nessy® Omega

This is to certify that the following products :

20193-082 Nessy Omega, split patient plate
20193-083 Nessy Omega, split patient plate

are specially designed

- with a split-pad effective contact surface 85 cm² [illegible]
- and can be applied irrespective of the direction of the operative site



These are proprietary products, marketed exclusively by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany.

April 4, 2018 Michael Reick, Director Business Management

Erbe Elektromedizin GmbH Waldhoernlestraße 17 72072 Tuebingen Germany

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Proprietary Certificate

To whom it may concern

endoCUT® I and Q

This is to certify that the modes endoCUT® I and endoCUT Q for fractionated cutting on erbe VIO electrosurgical units are proprietary products, manufactured by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany and these products are not manufactured elsewhere.

Date 2019-01-21

Michael Reick, Director Business Management

erbe
power your performance.

Proprietary Certificate

To whom it may concern

Bipolar Instruments

This is to certify that the following products :

- 20195-132 Bipolar LAP forceps, Maryland, deep ribbed, shaft ø 5 mm, length 340 mm
- 20195-133 Bipolar LAP forceps, fenestrated, deep ribbed, shaft ø 5 mm, length 340 mm
- 20195-081 Bipolar fixation forceps, shaft ø 5 mm, insulated, length 330 mm
- 20195-226 Bipolar LAP scissors, Metzenbaum, shaft ø 5 mm, length 340 mm

are specially designed to achieve the desired surgical outcomes as stated in the Intended Use (see Notes on Use of each product) in different surgical procedures".

These are proprietary products, marketed exclusively by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany.

2017/05/15

Axel Retzlaff, Director Regulatory Affairs

Erbe Elektromedizin GmbH, Waldhoernlestraße 17, 72072 Tuebingen, Germany

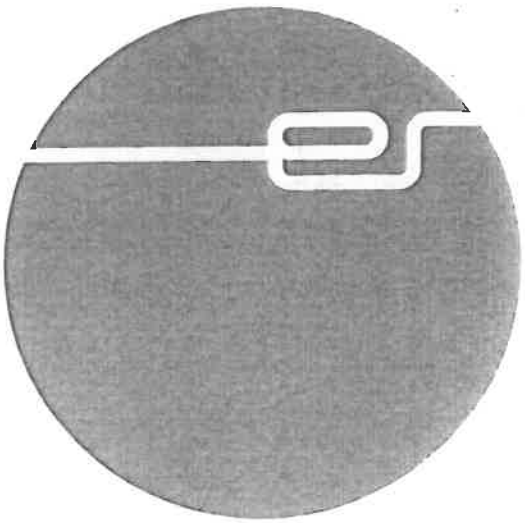
erbe
power your performance.

Proprietary Certificate

To whom it may concern

Erbe VIO® 3, APC 3 and ERBEJET® 2

This is to certify that the electrosurgical device Erbe VIO® 3 with argon Plasma Coagulation system APC 3 and the hydrosurgery system ERBEJET® 2, built in one workstation are proprietary products, manufactured by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany and these products are not manufactured elsewhere.



erbe

Erbe Elektromedizin GmbH
Waldhoernlestrasse 17
72072 Tuebingen, Germany

Date 2021-10-06

Natalie Zierhut, Business Manager Asia Pacific

power your performance.

Proprietary Certificate

To whom it may concern

Erbe VIO® 3 & Instruments

This is to certify that the devices Erbe VIO® 3 in combination with the instruments listed below is a proprietary set of products, manufactured by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany. We are the only manufacturer of this set of product and it is not manufactured by any other company elsewhere in the world.

10160-000	Erbe VIO® 3
20195-200	BiClamp® 210
20195-202	BiClamp® 201 T
20195-203	BiClamp® 271 T
20195-204	BiClamp® LAP BiSect Micro
20195-221	BiClamp® 150 C
20195-280	BiClamp® 280
20195-299	BiClamp® 260 C
20195-134	BiClamp® LAP forceps Maryland

erbe

Erbe Elektromedizin GmbH
Waldhoernlestrasse 17
72072 Tuebingen, Germany

Date 2022-06-15

Natalie Zierhut, Business Manager APAC & Spain

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power your performance.

Proprietary Certificate

To whom it may concern

VIO® 3

This is to certify that the VIO® 3 is a proprietary product, manufactured by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany. We are the only manufacturer of this product and this is not manufactured by any other company elsewhere in the world.

The preciseSECT mode is included and only available for the VIO® 3 system. Properties: fast, effective coagulation, with limited tissue-cutting property. Optimized exposure characteristics through dynamic adaptation of modulation.

erbe

Erbe Elektromedizin GmbH
Waldhoernlestrasse 17
72072 Tuebingen, Germany

Maik Luz (Oct 9, 2023 13:56 GMT+2)

Date 2023-10-09

Maik Luz, Product Specialist Global Sales Support

Erbe Elektromedizin GmbH Waldhoernlestraße 17 72072 Tuebingen Germany

power your performance.

Proprietary Certificate

To whom it may concern

TriSect rapide®

- with VIO® 3 and thermoSECT mode

This is to certify that the below listed variations of TriSect rapide®, with our electrosurgical generator VIO® 3 and the thermoSECT mode, are proprietary products, manufactured by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany. We are the only manufacturer of these products, and they are not manufactured by any other company elsewhere in the world.

- 21195-400 - TriSect rapide 140, single-use, bent 17 mm, shaft length 140 mm
- 21195-401 - TriSect rapide 200, single-use, bent 17 mm, shaft length 200 mm
- 21195-402 - TriSect rapide 350, single-use, bent 17 mm, shaft length 350 mm
- 21195-403 - TriSect rapide 450, single-use, bent 17 mm, shaft length 450 mm

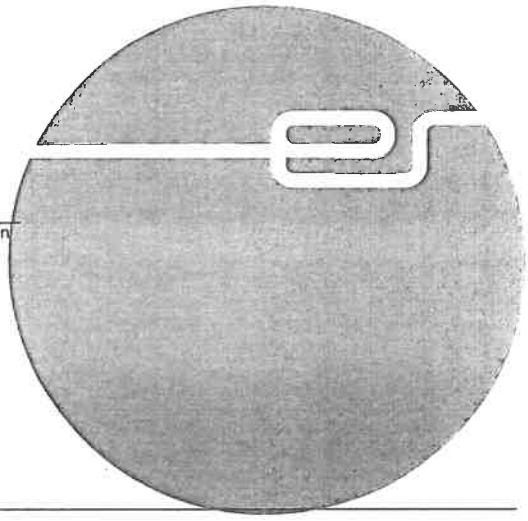
The following technologies are proprietary to Erbes TriSect rapide® dissect and sealing instrument:

- unique **tripolar technology** enables a quick electrical cut without a blade
- **true single step**: grasp, seal and dissect vessels and tissue bundles in a single workflow
- **thermoSECT** mode for simultaneous dissection and sealing
- **softCOAG bipolar** mode for immediate hemostasis, with powerful initial coagulation
- **cooler impact:** reduced thermal spread with lateral spread lower than 1mm

Erbe Elektromedizin GmbH
Waldhoernlestrasse 17
72072 Tuebingen, Germany

Date 2024-09-30

Natalie Zierhut, Business Manager Asia Pacific & Spain



erbe
power your performance.

Proprietary Certificate

To whom it may concern

VIO®3, APC 3, ERBEJET® 2, ERBECRYO® 2, IES 3, ESM 2 & Viron X

This is to certify that the combination of above-mentioned products is a proprietary solution, manufactured by the Erbe Group with Headquarter at Waldhoernlestrasse 17, 72072 Tuebingen, Germany. We are the only manufacturer of these products, and they are not manufactured by any other company elsewhere in the world.

The following modes are proprietary for Erbe VIO®3:

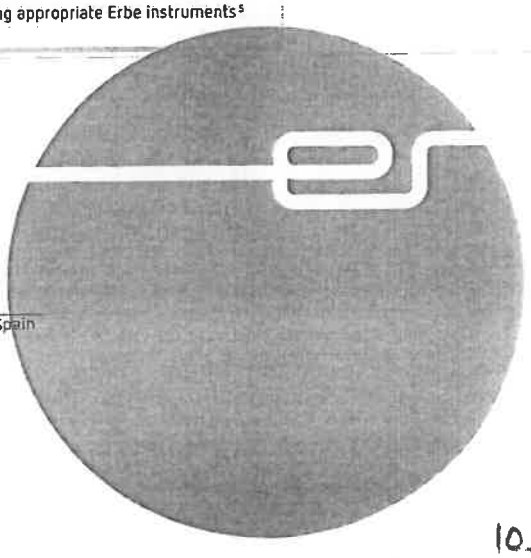
preciseSECT	highCUT bipolar	thermoSEAL®
Optimized exposure as a result of dynamically adapting modulation. Medium coagulation	Smooth incisions, minimum to moderate hemostasis. For bipolar resection in a saline solution	Special COAG mode for sealing highly-vascularized tissue bundles and blood vessels with a diameter of up to 7 mm using appropriate Erbe instruments[5]

erbe

Erbe Elektromedizin GmbH
Waldhoernlestrasse 17
72072 Tuebingen, German

Date 2024-09-12

Natalie Zierhut, Business Manager Asia Pacific & Spain



10.9

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Proprietary Certificate

To whom it may concern

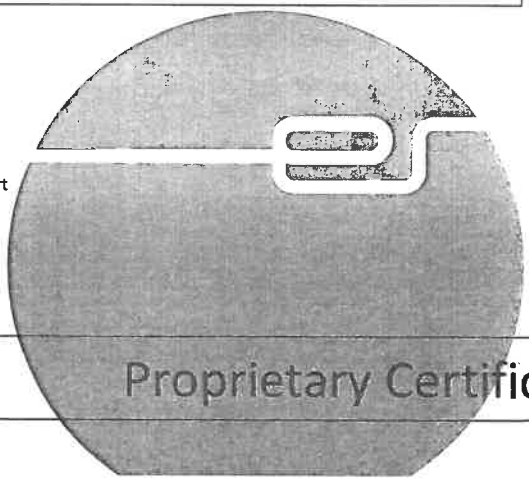
This is to certify that the listed instruments are proprietary products, manufactured by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany and these products are not manufactured elsewhere.

Article No.	Catalogue Description
20150-015	HybridAPC, ø 2.3 mm, length 1.9 m
20150-030	Applicator, straight, ø 6 mm, length 65 mm; with suction, e.g. for liver surgery
20150-031	Applicator, flexible tip, ø 6 mm, length 65 mm; with suction, e.g. for liver surgery
20150-036	Applicator, straight, with monopolar electrosurgical function, ø 6 mm, length 80 mm; with suction, e.g. for liver surgery
20150-038	Applicator, straight, ø 6 mm, length 306 mm; with suction, e.g. for TME
20150-039	Applicator, straight, ø 6 mm, length 180 mm; with suction, e.g. for TME
20150-060	HybridKnife, T-type, full-stream, ø 2.3 mm, length 1.9 m; with connecting plug international (3-Pin)
20150-061	HybridKnife, I-type, full-stream, ø 2.3 mm, length 1.9 m; with connecting plug international (3-Pin)
20150-062	HybridKnife, O-type, full-stream, ø 2.3 mm, length 1.9 m; with connecting plug international (3-Pin)
20150-100	ERBEJET 2 two-pedal foot switch with ReMode, AP & IP X8 equipment
20150-101	ERBEJET 2 one-pedal foot switch with ReMode, AP & IP X8 equipment
20150-301	Pump cartridge plus for ERBEJET 2

i.A. Manuel Neuburger

Date 2023-09-11

Manuel Neuburger, Product Specialist International Sales Support



erbe

Proprietary Certificate

To whom it may concern

Erbe FiAPC Probes

This is to certify that the listed FiAPC Probes are proprietary products, manufactured by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany and these product are not manufactured elsewhere.

Article No.	Catalogue Description
20132-220	FiAPC probe 1500 A, ø 1.5 mm, flexible, length 1.5 m
20132-221	FiAPC probe 2200 A, ø 2.3 mm, flexible, length 2.2 m
20132-222	FiAPC probe 2200 A, ø 3.2 mm, flexible, length 2.2 m
20132-223	FiAPC probe 3000 A, Ø 2.3 mm, flexible, length 3 m
20132-224	FiAPC probe 2200 SC, ø 2.3 mm, flexible, length 2.2 m
20132-225	FiAPC probe 2200 C, ø 2.3 mm, flexible, length 2.2 m
20132-226	FiAPC probe 3000 A, ø 1.5 mm, flexible, length 3 m

erbe

Erbe Elektromedizin GmbH
Waldhoernlestrasse 17
72072 Tuebingen, Germany

Date 2024-01-10

Natalie Zierhut, Business Manager Asia Pacific & Spain

Erbe Elektromedizin GmbH Waldhoernlestrasse 17 72072 Tuebingen Germany

Phone +49 7071 755-0
Fax +49 7071 755-179
info@erbe-med.com
erbe-med.com

CEO and President: Christian O. Erbe
Commercial Register Court Stuttgart
HRB 380137
VAT ID (USt-IdNr.): DE 146893422

Baden-Württembergische Bank
IBAN: DE27 6005 0101 7477 5011 35
BIC: SOLADEST600

Kreissparkasse Tübingen
IBAN: DE54 6415 0020 0000 0001 41
BIC: SOLADES1TUB

Proprietary Certificate

To whom it may concern

Erbe flexible cryoprobes

This is to certify that the listed single-use flexible cryoprobes are proprietary products, manufactured by Erbe Elektromedizin GmbH, Waldhoernlestrasse 17, 72072 Tuebingen, Germany and these product are not manufactured elsewhere.

Article No.	Catalogue Description
20402-401	Flexible cryoprobe, single-use, ø 1.1 mm, with oversheath ø 2.6 mm, length 817 mm
20402-402	Flexible cryoprobe, single-use, ø 1.1 mm, with oversheath ø 2.6 mm, length 757 mm
20402-410	Flexible cryoprobe, single-use, ø 1.7 mm, length 1150 mm
20402-411	Flexible cryoprobe, single-use, ø 2.4 mm, length 1150 mm

Erbe Elektromedizin GmbH
Waldhoernlestrasse 17
72072 Tuebingen, Germany

Date 2022-08-08

Natalie Zierhut, Business Manager APAC & Spain

Specification of the item-Patient Mobilizer

1. Powered multifunctional positioning aid for early mobilization and ICU rehabilitation of critically ill patients.
2. It allows the patient to be positioned into lying, sitting and standing positions
3. The advanced positioning possibilities to help increasing comfort and preventing pressure ulcers by enabling easy repositioning.
4. Hand control operated positioning of patient between standing (75 degrees), sitting and supine position including the option of Trendelenburg positioning.
5. Height adjustable in stretcher and chair position as well as compact dimensions cater for an ergonomic working posture and good patient interaction.
6. Easy-to-read inclinometer indicating level of inclination when raising platform to a standing position.
7. Sideways tilting in all positions, for pressure re-distribution and rehabilitation purposes.
8. Reclining chair position for a comfortable resting position.
9. Safe Working Load 200kg
10. Comfortable foam mattress and pillow with mattress cover in breathable, multidirectional stretch material.
11. The safety belt system secures the patient in a comfortable way.
12. Adjustable shoulder supports, foot plate, arm rests and lumbar support.
13. Designed for alternating patient posture.
14. Manual "Quick-down" emergency lowering option from standing to lying position enabling CPR.
15. Built-in pinch protection functions and emergency stops.
16. Intuitive hand control operation with two additional levels of control redundancy.
17. Easy to clean – designed for the ICU
18. Easy to clean surfaces designed to minimize dirt traps
19. No Velcro fastener or push buttons
20. Minimal use of zippers
21. Easy to remove, washable mattress, pillow and arm rest covers
22. All patient positioning options powered and hand control operated.
23. Removable NiMH battery, to be charged in a separate charging station.

Dr Ankur Verma
HoD Surgical Oncology,
In-Charge Common Equipment &
Technical Expert Procurement (Goods)

Joint Director (MM), KSSSCI

Finance Officer, KSSSC

Addl. Prof. Akshay Anand,
Prof. General Surgery, KGMU
(Nominee of Director & External Expert)

24. Low friction castors, all with brakes.
25. Adjustable foot plate with anti-slip properties.
26. Adjustable arm-rests.
27. Adjustable lumbar support.
28. Adjustable and foldable shoulder supports.
29. Mattress covers in breathable fabric that provides multidirectional stretch.
30. Adjustable safety belt system securing the patient at knee, hip and chest.
31. Three level redundant maneuvering controls for safety.
32. Dual emergency stops and system failure override.
33. Max patient length: 196 cm
34. Min patient length: 148 cm
35. Width (surface, incl. arm supports): 750 mm (29 1/2'')
36. Chassis dimensions (incl. castors): 915 x 714 mm (36 x 28 1/8 '')
37. Max length (stretcher): 2045 mm (80 1/2'')
38. Min length (chair incl. foot plate): 1580 mm (62 1/4'')
39. Max height (seat surface): 984mm
40. Max Safe Working Load (SWL): 200kg
41. Min height (seat surface): 588 mm (23 1/4'')
42. Turning radius, stretcher: 2045 mm (80 1/2'')
43. Turning radius, chair: 1840 mm (72 3/8'')
44. Max elevation, standing: 75°
45. Max sideways tilting (left): 20°
46. Max sideways tilting (right): 20°
47. Trendelenburg tilt: -25°
48. Protection class: IPX4
49. Protection class, hand control: IPX6
50. Battery: NiMH, 2,5Ah, 24 V DC
51. Must qualify IEC60601-2-52:2009 by approved European or US notifying body for international safety standard for electric hospital bed
52. European / American CE certified with 4 digit notified body.
53. USFDA approved. Product Brand name must feature on USFDA website

Dr Ankur Verma
HoD Surgical Oncology,
In-Charge Common Equipment &
Technical Expert Procurement (Goods)

Joint Director (MM), KSSSCI

Finance Officer, KSSSC

Concurrence through mail
Add. Prof. Akshay Anand,
Prof. General Surgery, KGMU
(Nominee of Director & External Expert)

Kalyan Singh Super Specialty Cancer Institute

कल्याण सिंह अति विशिष्ट कैंसर संस्थान

C.G. City ,Sultanpur Road, Lucknow-226002

सी०जी० सिटी, सुल्तानपुर रोड, लखनऊ- 226002

(An Autonomous Institute of the Govt. of Uttar Pradesh)

(उत्तर प्रदेश सरकार का स्वायत्तशासी संस्थान)

PROPRIETARY/ SPECIFIC BRAND GOODS CERTIFICATE

1.	Item/ Type/ Model No. required along with specification	Patient Mobilizer
2.	If the item a spare part attachment or accessory for an existing equipment Yes / No (If yes, provide details)	No
3.	Name of the manufacturers/supplier of the item proposed by the indenter	Yes
4.	Are they sole manufacturers/ sold distributors of the Item Yes / No	No
5.	If there any other item with similar/equivalent specification available in the market to meet the job requirement envisaged. Yes / No (If Yes, explain why those alternatives cannot be procured and provide a comparative analysis of the functional advantages/cost-effectiveness of the recommended item)	Yes
6.	Efforts made to locate alternative sources of supply or use of substitutes	Yes
7.	Why open tender can't be resorted to, for locating alternative source.	Propriety item/Equipment
8.	Are the proprietary items certified to have reasonable rates? Yes / No (Attach supporting documents, if applicable)	Yes
9.	Any other justification for procuring the item from a single source	Not Applicable

I hereby certify that the above item is required to be procured on a proprietary/single-source basis, as the specified brand is the only known source that meets our functional requirements. Given the unique advantages of this brand, an open tender process would not serve any meaningful purpose in this case and can justifiably be waived.

(strike out whoever is not applicable)

Proprietary Article Certificate in the following form is to be provided by the Ministry/Department before procuring the goods from a single source under the provision of sub-Rule 166 (i) and 1 66 (iii) as applicable.

(i) **The Patient Mobilizer** (Sara Combilizer) **is manufactured by** **M/s Arjo AB Sweden**

(ii) **No other make or model is acceptable for the following reasons:**

a) Because this is Proprietary product and is not manufactured by another company elsewhere and is a multifunctional tool for Mobilization of Patients out of bed in the acute care settings, including ICUs.

b) The proprietary technology in Sara Combilizer offers:

- Patient to be positioned into chair, stretcher, tilt table, chair position with tilt in space and choice of lateral tilt, progressive tilting to 75 of standing and choice of lateral tilt without having to perform transfers in between. The patient can be easily repositioned into a supine, standing, or seated position, as this versatile aid combines the functions of a tilt table, stretcher and tilt in space chair
- When transforming stretcher to chair, the comfortably padded armrests are automatically folding up, keeping in a horizontal level. Standing a patient up, the armrests are automatically positioned in horizontal level.
- Both shoulder supports can be operated from either side, making it possible for the caregiver to fold down the shoulder support on the opposite side
- Foot plate provides an anti-slip surface for the patients' feet, and is designed in a closed cell foam material that maintains a warm feeling to the feet
- A "QUICK Tilt Release function for patient emergencies (e.g. if a patient suffers a sudden drop in blood pressure) allows the caregiver to take the patient down to a flat, lying position in seconds.
- Mattress is made of high-quality PU foam and the comfort enables patients to spend time sitting out of bed. Cut out on the underside of the mattress making the mattress thinner where the lumbar support is, to avoid pressure points and make adjustments of the lumbar support and armrest easier
- Dual wheel lockable castors for ease of transportation
- Tilt angle indicator
- 200kg Max patient weight

c) Exceptional positioning Flexibility even patients with low attention and level of consciousness, poor trunk stability, mechanical ventilation and hemofiltration lines in groin can easily be mobilized to a standing, setting or supine position in a safe & comfortable way.

d) Due to its design and dimensions, transfer of the patient to and from Sara Combilizer is safe and quick, minimizing the resource need to prepare the patient for the Mobilization therapy.

(iii) Concurrence of finance wing to the proposal vide: .....

(iv) Approval of the competent authority vide: .....

(Signature with date and designation of the indenting officer)

Feb 26, 2025
Malmö, Sweden

Arjo
Thomas Johnsson
Hans Michelsensg. 10
220 11, Malmö
Sweden

PROPRIETARY ARTICLE CERTFICATE

Dear Madame / Sir

1. We hereby certify that Arjo AB Sweden is the legal manufacturer of Sara Combilizer, A multi-functional tool for mobilization of patients out of bed in the acute care settings, including ICUs' it is manufactured at our factory in Poland.
2. The proprietary technology in Sara Combilizer offers;
    - Patient to be positioned into chair, stretcher, tilt table, chair position with tilt in space and choice of lateral tilt, progressive tilting to 75° of standing and choice of lateral tilt without having to perform transfers in between. The patient can be easily repositioned into a supine, standing, or seated position, as this versatile aid combines the functions of a tilt table, stretcher and tilt in space chair
    - When transforming stretcher to chair, the comfortably padded armrests are automatically folding up, keeping in a horizontal level. Standing a patient up, the armrests are automatically positioned in horizontal level.
    - Both shoulder supports can be operated from either side, making it possible for the caregiver to fold down the shoulder support on the opposite side
    - Foot plate provides an anti-slip surface for the patients' feet, and is designed in a closed cell foam material that maintains a warm feeling to the feet
    - A "QUICK Tilt Release" function for patient emergencies (e.g. if a patient suffers a sudden drop in blood pressure) allows the caregiver to take the patient down to a flat, lying position in seconds.
    - Mattress is made of high quality PU foam and the comfort enables patients to spend time sitting out of bed. Cut out on the underside of the mattress making the mattress thinner where the lumbar support is, to avoid pressure points and make adjustments of the lumbar support and armrest easier
    - Dual wheel lockable castors for ease of transportation
    - Tilt angle indicator
    - 200kg Max patient weight
3. Exceptional positioning flexibility, even patients with low attention and level of consciousness, poor trunk stability, mechanical ventilation and hemofiltration lines in groin

can easily be mobilized to a standing, sitting or supine position in a safe and comfortable way.

4. Due to its design and dimensions, transfer of the patient to and from Sara Combilizer is safe and quick, minimizing the resource need to prepare the patient for the mobilization therapy

For, Arjo

Thomas Johnsson

Sr. Product Manager
Product Category Management

Arjo AB
Hans Michelsensgatan
220 11, Malmö
Sweden

Phone: +46721807972
Email: thomas.johnsson@arjo.com

www.arjo.com