



अखिल भारतीय आयुर्विज्ञान संस्थान, गोरखपुर
All India Institute of Medical Sciences, Gorakhpur

(स्वास्थ्य एवं परिवार कल्याण मंत्रालय भारत सरकार द्वारा स्थापित एक स्वायत्त निकाय)
(An autonomous organization under the Ministry of Health & Family Welfare, Govt. of India)

No.: AIIMS/GKP/Admn/2026-27/433 (Comp: 3502)

Date: 08.05.2026

Subject: Procurement of Radiofrequency ablation machine for Dept. of Surgery AIIMS Gorakhpur.

The Department of Surgery AIIMS Gorakhpur, proposes the procurement of Radiofrequency ablation machine, (Make: Fcare system NV,). The requested Equipment is propriatry equipment and are proposed to be procured under a Proprietary Article Certificate (PAC) through the authorized dealer, M/s Novomed Incorporaion Pvt Ltd, as per Annexure-1 (PAC document).

The above-mentioned proposal/document is being uploaded for open information. Any firm or manufacturer having objections or comments regarding the proprietary nature of the equipment/accessories/items may submit the same within 14 days from the date of issue/uploading of this notification.

Comments/objections, if any, should be addressed to:

Administrative Officer
AIIMS, Gorakhpur
On or before 22nd May, 2026 up to 17:00 Hrs
Email: procurementcell@aiimsgorakhpur.edu.in
Aoofficeaiimgkp@gmail.com

Failing which, it will be presumed that there are no comments to offer, and the case will be decided on merits.

S/D
Administrative Officer
AIIMS Gorakhpur

RADIO FREQUENCY ABLATION MACHINE

Technical Specifications:-

- This system is based on the principle of radiofrequency induced thermotherapy.
- The MedRF4000® is an all-in-one device for the treatment of all grades of Hemorrhoids, Fistulas and different kinds of varicose veins - from the very small spider veins and perforating veins to Great Saphenous Vein (GSV).
- F care systems recently developed a probe for the treatment of fistulas with the same MedRF4000® device.
- All MedRF4000® treatments are based on the principle of thermocoagulation.
- The Principle of thermocoagulation is the heating of the vein wall by sending a high frequency signal into the tip of the catheter or needle that will make the cells vibrate so that they increase in temperature.
- It is usable in the following anatomical regions:
 - Hemorrhoids
 - Fistulas
 - Spider Veins
 - Reticular Veins
 - Collateral Veins
 - Perforating Veins
 - Great Saphenous Veins
- The electrical resistance of a cell will be reversed by thermocoagulation. Because the needle or catheter is insulated, the effect is very local and minimal on the surrounding tissue.
- The catheters and the needles are connected to the central unit which generates the high frequency signal.
- Current is induced through a monopolar applicator.
- It is an interstitial form of therapy which can be performed under local anaesthesia.
- Tissue is heated between 80°C and 120°C using a catheter like applicator.
- It has footswitch control.
- It has catheter connectivity detection.
- It has visual and audible indication for pull-back.

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Dr. H. R. Gupta / Dr. Gajendra Singh
 Director General / Additional Professor
 Department of Plastic Surgery, AIMS Raipur
 AIMS Raipur, Raipur, Chhattisgarh
 Medical College of Raipur, Raipur, Chhattisgarh

M. B. Bhatnagar

Sr.No.	Category	Sub-category	Specifications	Pack Size
1	Radio Frequency Generator	Monopolar RF	Generator for treatment of hemorrhoids, fistulas and varicose veins	1 Generator
2	Catheter / Probes	Hemorrhoids Probe	For the treatment of all grades of internal hemorrhoids (grades I, II, III & IV)	1 Catheter
3	Catheter / Probes	Varicose Veins Probe	For the treatment of the GSV & SSV (6-18 mm)	1 Catheter
4	Catheter / Probes	Perforator Vein Probe	For the treatment of the Perforator Veins	1 Catheter
5	Needles	Needles	0.150 mm Diameter, for the treatment of Spider Veins	1 No. (Pack of 50 Needles)
6	Needle Holder	Needle Holder	Needle holder for the needles to treat spider veins	1 No.

- MedRF4000 supports during the treatment by providing live information.
- This means you remain in complete control and you can tell the patient about the progress of the treatment.
- The device guides you through the procedure from start to finish, assuring you of a 99.99% successful treatment.
- The interface is very extensive, yet intuitive.
- The tilted touchscreen with nightshift mode ensures impeccable readability, even in dark operating theatres, and is easy to operate wearing sterile gloves.
- You can transfer all the information about the treatment to the patient's file easily via USB. This makes the follow-up a lot easier.
- The next time, you know exactly which settings were used during the previous session without having to write this down or enter data manually.
- When you want to add a new treatment to MedRF4000, we come along to install the software.
- This way you do not waste time traveling and a new treatment is available on your device in a flash.
- Thermal coagulation is the ideal safe and efficient method that does not damage the surrounding tissue.
- The unique shape of the radio waves means that overheating is impossible and painful side effects are avoided.
- The treatment is also extremely safe. The foot pedal operation gives you total control; you have total control over when heat is given off.
- You can reassure your patient; the risks are minimal.
- A local anesthetic is sufficient and there are no painful side effects such as bruising or (permanent) paraesthesia.

डॉ. गौरव गुप्ता / Dr. Gaurav Gupta
 एम.बी.बी.एस. एम.डी. (अनुसंधान) प्रोफेसर
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Technical Specification of Power Unit

- Supply Voltage: 110-230 V / 50-60 Hz
- Max. Output voltage 660V
- Frequency: 4MHz
- Channels: 1 Monopolar
- Output power: 5-25W
- Protection degree against liquid penetration: IPX0
- Temperature fuse in glass.
- Dimensions: (H) 185 mm x (D) 245 mm x (W) 252 mm
- Weight ± 5 kg
- Insulation: class I
- Output of the thermocoagulation (HF) signal
- Fuse reference: 2 x F2A / 250 V

Should be available with a compatible APPLICATOR with following specifications

- Should be flexible and thin (2mm diameter).
- Should not require additional guidewire.
- The tip should be blunt to avoid vein puncturing
- The tip should be solid to facilitate Ultrasound detection and positioning
- The length should be at least 1200mm.
- The electrode tip length should be at least 51mm.
- Should have at least 2.5m long cable in each applicator.
- Should have markings to facilitate pull-back
- Should have adjustable ring to facilitate catheter positioning and detect treated length.

M. J. ...

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Dr. Gaurav Gupta
 National Professor
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COMPLETE BULKY ITEMS

- (1) CR451 - 1 No. (For Varicose Veins)
- (2) HPR451- 1 No. (For Hemorrhoid)
- (3) Electro surgical Pad connecting cable- 1 no.
- (4) 3M Electro Surgical Pads- 5 Nos. (For Varicose Veins)

CONSUMABLES

(1) PROBE FOR VARICOSE VEINS (CR451)

Saphenous veins Treatment

- For the treatment of the Great Saphenous Vein, the CR451 catheter is used.
- Its 5 mm Non-isolated tip and its flexibility allows for a smooth insertion.
- The catheter will be pulled back gradually until the entire vein is closed.
- This procedure will take about 5 minutes.
- Saphena Magna ablation with EVRF® is minimally invasive, preventing unpleasant and possibly unsafe side effects such as pigmentation, superficial Thrombophlebitis or deep vein thrombosis (DVT).
- Patients experience minimal discomfort and normal daily activities can be resumed within one day.

The advantages for the patient

- No pain during or after the treatment
- Day clinic walk-in walk-out procedure
- Can resume daily activities within 24 hours after treatment
- Very good cosmetic outcome
- No scars, bruising or swelling
- quick relief from symptoms

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M. Mohan
Dr. Debajyoti Mahapatra
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Senior Consultant Vascular Surgery (CVS)
Additional Consultant (Medical) Services, King's (India)

For the doctor

- Easy and fast procedure
- Very flexible catheter - many applications
- No skin coloration
- Good visibility under ultrasound - fast positioning of catheter same catheter can be used for large collateral veins and perforating veins.

Technical specifications CR451

- Diameter 1.9 mm
- Length 1190 mm
- Weight 34 gr
- Coating PTFE
- Tip Rounded Metal 50 mm

(2) PROBE FOR HEMORRHOID (HPR450)

Hemorrhoids which are not treated properly can gradually develop up to

- Degree 2, 3 or 4, which could result into an urgent need of a painful operation.
- With the HPR450 probe, all types of hemorrhoids can be treated easily and effectively.
- This new and improved method is easy to use and very effective on hemorrhoids degree 1-4. Treatments can be done in one or two sessions of 15-20 minutes under local anaesthesia.
- Patients hardly experience any pain after treatment so minimal postoperative care is required and a swift return to normal daily activities are possible.

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4 Step Procedure

- (I) Place the Anoscope in the rectum of the patient to detect the Hemorrhoid.
- (II) Apply local anaesthesia (3 to 6 ml) between the base of the Hemorrhoid and the muscle layer.
- (III) Insert the HPR451 probe in the Hemorrhoid and apply between 1000W/s to 3000W/s of energy.
- (IV) Result immediately after treatment.

The Advantages

- For the patient**
 - Minimal discomfort during the treatment
 - No or minimal bleeding after the treatment
 - Quick return to daily activities
 - Local anaesthesia
 - Walk in walk-out day care treatment

For the doctor

- Local anaesthesia
- Easy to learn procedure and easy to apply
- Immediate clinical results
- No post-operative care
- Day clinic or private practice

Technical Specifications of HPR451

- Diameter 3.5 mm
- Length 160 mm
- Weight 34 gr
- Coating PTFE
- Tip Sharp Arced 10 mm

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(3) PROBE FOR ANAL FISTULA

- The flexibility of the catheter is a key advantage that allows you to easily follow the path of the anal fistula - it will allow you to close the fistula along its entire length.
- Depending on the diameter of the anal fistula, a range of different catheter sizes is available. (from 6F to 9F)
- The catheters maximize energy penetration to a high degree, emitting a radial wave within a radius of 3 mm thus avoiding damage to adjacent tissue or muscle.

Technical specifications	6F	7F	8F	9F
Catheter diameter	2 mm	2.33 mm	2.66 mm	3 mm
Catheter weight	40 g	41 g	42 g	43 g
Catheter length	350 mm	350 mm	350 mm	350 mm
Tip length	4 mm	4 mm	4 mm	4 mm
Insulating material	PTFE	PTFE	PTFE	PTFE
Tip material	AISI316L	AISI316L	AISI316L	AISI316L
Extension cable length	2.5 m	2.5 m	2.5 m	2.5 m
Marking every	5 mm	5 mm	5 mm	5 mm
Medical device	Class IIb	Class IIb	Class IIb	Class IIb
Product reference	05FIS6F	05FIS7F	05FIS8F	05FIS9F

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Radiofrequency Thermocoagulation

Emission of electromagnetic waves at very High frequency (4MHz), similar to the principle of a microwave

The four phases of Thermocoagulation

1. Ionic agitation
 2. Vaporization and dehydration of the tissue
 3. Thermal destruction
 4. Dehydration of the tissue and Coagulation
- = minimal tissue damage

(4) PROBE FOR PERFORATOR VEINS (CR301)

- Reticular, collateral and perforating veins can be treated with F Care Systems' CR121 and CR301 catheters.
- The direction of the vein easily. Smooth insertion is ensured with the advanced coating material around the catheter.
- The non-insulated tip transmits the high frequency signal to the vein wall.
- This causes the vein to coagulate and eventually disappear.
- The catheter is manipulated with a sterilized handset.
- Scrolling the handset's wheel will move the catheter in or out of the vein.

The Advantages

For the patient

- No pain during and after treatment
- No pigmentation or allergic skin reaction
- No dermatological reactions due to chemical compound
- High esthetic outcome

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Fellow, International Society of Laser in Dermatology (ISLAD)
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For the doctor

- Easy to use
- Permanent occlusion
- All body parts
- Semi-sterile environment (private practice)
- No chemical agent in the body
- Colateral, peripheral and perforating veins can be treated

CR301

- Diameter catheter 0.6 mm
- Length 27 mm
- Handset 140 mm x 55 mm x 15 mm
- Weight handset 40 gr
- Coating PTFE
- Tip Metal

[S] ANOSCOPE / PROCTOSCOPE

Specification

- ANOSCOPE is typically made of plastic (disposable) or stainless steel (sterilizable/FFO) tears in the tissue called Anal Fissures, Hemorrhoids (swollen veins around the anus and/or rectum) rectal polyps.
- ANOSCOPE is the medical industry's premier single-use disposable with integrated LED light source.
- This is ready to use device eliminates the time and expense of reprocessing and reduce the risk of cross contamination in medical setting by making rechargeable and plug in light sources obsolete specially designed to aid in the examination of the anus to screen diagnose evaluate and treat problems of the anal canal.
- The device's clear material allows for 360 degree visibility is ideal for diagnostic and therapeutic anoscopy procedure.
- ANOSCOPE is ideal for diagnostic and therapeutic Hemorrhoids procedures.
- ANOSCOPE'S LED light source is powered by low-voltage alkaline button batteries.

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 491001



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K51

- Diameter 0.075 mm
- Length of the tip 0.8 mm
- Total length of the needle 22.5 mm
- Conductive material Stainless steel type Z12CN18-09
- Insulation material Weibhake coating hardened by UV light

K61

- Diameter 0.150 mm
- Length of the tip 1.2 mm
- Total length of the needle 22.5 mm
- Conductive material Stainless steel type Z12CN18-09
- Insulation material Weibhake coating hardened by UV light

CERTIFICATION

- ISO 13485
- CE1304
- Shurely FDA USA

WARRANTY

2 years warranty plus 2 years extended warranty and this should be chargeable.

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