

महाराष्ट्र शासन सामान्य रुग्णालय, गडचिरोली		
दुरध्वनी क्रमांक (०७१३२) २२२३२०	टेलिफॅक्स क्रमांक (०७१३२) २२२६४४	जिल्हा शल्यचिकित्सक, सामान्य रुग्णालय, चंद्रपूर रोड, मेडाकल कॉम्प्लेक्स, गडचिरोली - ४४२६०५ यांचे कार्यालय. ई-मेल आय.डी. : csghgadchiroli33@gmail.com
आरोग्य सेवा	जा.क्र.सारुगड/औ.भा./अस्थिव्यंग विभाग/साहित्यसामुग्री/दरपत्रक जाहिरात/ ५४४६/२६ दिनांक : ८/१/२६	

प्रति,

मा.सहसंचालक,
आरोग्य सेवा (खरेदी कक्ष) मुंबई.

विषय:- आरोग्य विभागाचे संकेतस्थळ <https://arogya.maharashtra.gov.in> मध्ये अस्थिव्यंग विभागाकरीता आवश्यक उपकरणे व साहित्यसामुग्रीचे दरपत्रके मागविण्याकरीता जाहिरात प्रसिध्द करण्याबाबत...

उपरोक्त विषयांन्वये जिल्हा सामान्य रुग्णालय, गडचिरोली येथील कार्यरत अस्थिव्यंग विभागाकरीता आवश्यक उपकरणे व साहित्यसामुग्रीचे दरपत्रके मागविण्याकरीता जाहिरात आरोग्य विभागाचे संकेतस्थळ <https://arogya.maharashtra.gov.in> मध्ये प्रसिध्द करण्यात यावी हि विनंती.

करीता आपल्या माहितीस व योग्य कार्यवाहीस सविनय सादर.

सहपत्र :- जाहिरात

जिल्हा शल्यचिकित्सक
सामान्य रुग्णालय, गडचिरोली

प्रतिलिपी माहितीस सविनय सादर :-

१) मा. सहसंचालक, आरोग्य सेवा, रुग्णालय, (राज्यस्तर), मुंबई.

GOVERNMENT OF MAHARASHTRA



**CIVIL SURGEON, GENERAL HOSPITAL
GADCHIROLI**

Medical Complex, Gadchiroli - 442605

E-mail – csghgadchiroli33@gmail.com

Phone : 07132-222320

Fax : 0712-222644

**Quotation of Arthro Department Equipment & Instrument
Year 2026-27**

अस्थिव्यंग विभागाकरीता आवश्यक उपकरणे व साहित्यसामुग्रीचे
दरनिश्चिती करण्याकरीता दरपत्रके सादर करण्याबाबत

सन २०२६-२७

Quotation No. CSGH/Base rate/ Arthro Equipment & Instrument / ⁵⁹⁸²26/____

Date : ~~20-08-2026~~ 8/9/2026

Date of Release Quotation Documents : 21/08/2026

Last date of submission : 27/08/2026

महाराष्ट्र शासन सामान्य रुग्णालय, गडचिरोली		
दुरध्वनी क्रमांक (०७१३२) २२२३२०	टेलिफॅक्स क्रमांक (०७१३२) २२२६४४	जिल्हा शल्यचिकित्सक, सामान्य रुग्णालय, चंद्रपूर रोड, मेडाकल कॉम्प्लेक्स, गडचिरोली - ४४२६०५ यांचे कार्यालय. ई-मेल आय.डी. : csghgadchioli33@gmail.com
आरोग्य सेवा	जा.क्र.सारुगड/औ.भा./अस्थिव्यंग विभाग/साहित्यसामुग्री/दरपत्रक पुरविणे/	

5989 / २६ दिनांक : 8/9/2026

प्रति,

.....
.....

विषय : जिल्हा सामान्य रुग्णालय, गडचिरोली येथील अस्थिव्यंग विभागाकरीता रुग्णांच्या तपासणी, उपचार व शस्त्रक्रियेसाठी आवश्यक उपकरणे व साहित्यसामुग्रीचे दरनिश्चिती करण्याकरीता दरपत्रके सादर करण्याबाबत...

संदर्भ : मंजूर कार्यालयीन टिपणी दि. ०६.०८.२०२६ नुसार

आपणस कळविण्यात येते कि, सन २०२६-२७ या आर्थिक वर्षात जिल्हा सामान्य रुग्णालय, गडचिरोली येथील अस्थिव्यंग विभागाकरीता रुग्णांच्या तपासणी, उपचार व शस्त्रक्रियेसाठी सोबत जोडलेल्या परिशिष्ट अ मध्ये नमुद केलेल्या यादीतील आवश्यक उपकरणे व साहित्यसामुग्रीचे दरनिश्चिती करण्याकरीता खाली दिलेल्या अटी व शर्तीनुसार दरपत्रके मागविण्यात येत आहेत.

सदर आवश्यक उपकरणे व साहित्यसामुग्रीचे दर दिलेल्या (Technical Specification) तांत्रिक विनिर्देशानुसारच खाली दिलेल्या परिशिष्ट अ नमुन्यामध्ये सिलबंद लिफाफ्यात दिनांक १३.०९.२०२६ रोजीपर्यंत पोहचतील अशा रितीने पाठवावीत.

Sr. No.	Name of Arthro Equipment & Instrument	Unit	Rate with Taxes
1	Arthroscopy Equipment with 4K System, Drill & Shower, RF Plasma & Accessories		
2	Knee Instrument Set		
3	Sholder Instrument Set		
4	Arthroscopic Hand Instrument Set		
5	Special Arthroscopic Instrumentation		

- सहपत्र:- १) परिशिष्ट अ
२) तांत्रिक विनिर्देश सोबत जोडले आहे.


जिल्हा शल्यचिकीत्सक
सामान्य रुग्णालय, गडचिरोली

अटी व शर्ती :-

- १) दरपत्रकाच्या लिफाफ्यावर Quotation For Arthro Equipment & Instrument असा स्पष्ट उल्लेख असावा.
- २) दरपत्रके पुरवठादाराच्या लेटर हेडवरच स्वाक्षरी शिक्यासह सादर करावी
- ३) दर नमुद करताना सर्व करसह सपष्टपणे दाखवावी. या व्यतीरीक्त इतर कोणतेही खर्च अदा केले जाणार नाही.
- ४) दरपत्रकावर जीएसटी क्रमांक व पॅन क्रमांक याचा उल्लेख असावा.
- ५) दरपत्रकासोबत पॅनकार्ड व जीएसटी नोंदणी प्रमाणपत्राच्या स्वसाक्षात्कृत छायांकित प्रति Self Attested सादर केल्या असतील तरच दरपत्रक वैध मानल्यात येईल.
- ६) ईमेल द्वारे सादर केलेले दरपत्रकांचा स्वीकार केला जाणार नाही.
- ७) पुरवठादार संस्थेचे नोंदणी प्रमाणपत्र सादर करणे बंधनकारक राहिल.
- ८) पुरवठादाराने मागील तिन वर्षांचे आयकर भरणा केल्याचे प्रमाणपत्र जोडणे बंधनकारक राहिल.
- ९) दरपत्रक स्विकारणे अथवा नाकारणे तसेच सदर खरेदी प्रक्रिया पूर्णपणे रद्द करण्याचे अधिकार मा.जिल्हा समिती अध्यक्ष, गडचिरोली यांनी राखून ठेवले आहेत.

परिशिष्ट अ

Sr. No.	Name of Arthro Equipment & Instrument	Unit	Rate with Taxes
1	Arthroscopy Equipment with 4K System, Drill & Shower, RF Plasma & Accessories		
2	Knee Instrument Set		
3	Sholder Instrument Set		
4	Arthroscopic Hand Instrument Set		
5	Special Arthroscopic Instrumentation		


जिल्हा शल्यचिकीत्सक
सामान्य रुग्णालय, गडचिरोली

ANNEXURE 1

FORMAT FOR QUOTATION

(TO BE TYPE ON SUPPLIER LETTER HEAD)

Date :

**To,
The Civil Surgeon,
Civil Hospital ,Gadchiroli**

**Sub : Submission of Quotation for Base Rate of Arthro Department Equipment & Instrument
for Year 2026-27**

Ref : Web site quotation Notice No. CSGH/Base Rate/ Arthro Equipment & Instrument / /26
Date : 20/08/2026

With Ref. Above sub, we are have submitting following Items Rate for Base Rate Process according to attach Technical Specifications.

Sr. No.	ITEM CODE	Name of Particular with specification	Unit	Rate (without Taxes & Transportation)	Taxeble Amount	Total Rate (with Tax)
1						

Your Faithfully

Supplier Stamp & Sign

Department of Orthopaedics

Technical Specification

Arthroscopic Hand Instruments Set

- 1) All instruments should be USFDA and CE approved
- 2) All the instruments should be supplied by one manufacturer
- 3) All instruments should exactly match the specification provided.

SL NO	GENERAL SPECIFICATIONS	ARTICLE NO	DESCRIPTION
1	A reusable hook tip instruments having 150mm shaft length and 5mm calibrated markings with 5.4 mm wide tip for palpating soft tissue structures during arthroscopic procedures	AR-10000	Probe - Hook, 150 mm Shaft, 5.4 mm Tip
2	A tissue grasper cum suture retriever of 4.2mm diameter with self-releasing locking mechanism for retrieving sutures and palpating tissue structures during arthroscopic procedures	AR-12600SR	Alligator Grasper, Straight Shaft, Self-releasing Handle, Ø 3.4 mm
3	A tissue resection punch with 3.4mm diameter & bite size 2.6mm medium with straight shaft and straight jaw	AR-12300	Medium Punch, Straight Tip, Straight Shaft, Ø 3.4 mm
4	A tissue resection punch with 3.4mm diameter & bite size 2.6mm medium with 30 degree right curved shaft	AR-12320	Medium Punch, Straight Tip, 30° Right Curved Shaft, Ø 3.4 mm
5	A tissue resection punch with 3.4mm diameter & bite size 2.6mm medium with 30 degree left curved shaft	AR-12330	Medium Punch, Straight Tip, 30° Left Curved Shaft, Ø 3.4 mm
6	A tissue resection punch with 3.4mm diameter & bite size 2.6mm medium with 15 degree upward curved shaft	AR-12310	Medium Punch, Straight Tip, 15° Up Curved Shaft, Ø 3.4 mm
7	A suture retriever reusable instrument with 3.4 mm diameter with straight shaft and approximately 16cm in length	AR-12540	Suture Retriever, Straight Shaft, Straight Tip, Ø 3.4 mm
8	An alligator grasper Grasper of 4.2mm shaft diameter with self-releasing locking mechanism straight shaft and straight jaw	AR-13600SR	Grasper - Alligator, Ø 4.2 mm, Straight Shaft, with Hook Tip Self Releas
9	Arthroscopic Scissor of 3.4mm diameter shaft with straight shaft and straight jaw	AR-12140	Scissors Serrated, Straight Tip, Straight Shaft, Ø 3.4 mm
10	Arthroscopic Scissor of 3.4mm diameter shaft with straight shaft and right curved jaw tip	AR-12150	Scissors, Right Curved Tip, Straight Shaft, Ø 3.4 mm
11	Arthroscopic Scissor of 3.4mm diameter shaft with straight shaft and left curved jaw	AR-12160	Scissors, Left Curved Tip, Straight Shaft, Ø 3.4 mm
12	Arthroscopic Rotary widebiter Punch with 3.4mm Straight shaft and 90° right curved Jaw 5.1mm bite size	AR-12912	WideBiter Rotary Punch, 90° Right Tip, Straight Shaft, Ø 3.4 mm
13	Arthroscopic Rotary widebiter Punch with 3.4mm Straight shaft and 90° Left curved Jaw 5.1mm bite size	AR-12913	WideBiter Rotary Punch, 90° Left Tip, Straight Shaft, Ø 3.4 mm
14	The reusable proximal hook tip instrument to retrieve suture loop in tight spaces.	AR-5008H	Crochet Hook

15	The Set should be designed to contain arthroscopic hand instruments of all meniscus, the lightweight aluminium housing should offer space for up to 16 arthroscopy instruments. The instruments should be able to be stored securely in slotted silicone pads, with the tips upright for proper sterilization and simple identification.	AR-2200C	Master Hand Instrument Case
----	--	----------	-----------------------------

Head
 Department of Orthopaedics
 Govt. Medical College & Hospital,
 Chandrapur

Assistant Professor
 Department of Orthopaedics
 Govt. Medical College & Hospital,
 Chandrapur

Associate Professor
 Department of Orthopaedics
 Govt. Medical College & Hospital,
 Chandrapur

Department of Orthopaedics
Technical Specification
Arthroscopy Equipment Specifications

1. 4K CAMERA SYSTEM

1.1 4K CAMERA SYSTEM

1.1.1 CAMERA SOURCE

- Camera System should be Multi-speciality Compatible and compliant with all Rigid Endoscopes Procedures.
- Applied part type CF and Defibrillation Proof
- The console should have white balance button
- Operating System: LINUX(Preferable)
- Standby Illumination option – should have Standby Illumination button to put light source in standby mode when not required.
- Should be 4K Capable with the resolution 3840 x 2160p (Native)
- Should have 2 or more 4K Outputs at 60 Hz
- Should have 1 or more HD Outputs at 60 Hz
- Should have 1 or more HD Input for secondary equipment
- Should have 4 or more USB Connection options for accessory use (Pen drives, HDD, Printer, iPad etc)
- Should be PACS/DICOM enabled with no extra Hardware
- Should display the real time values of accessory equipments on Monitor
- Power Supply: 100-240 V, 50-60 Hz
- Power Consumption: 174W
- USFDA & CE Approved Product

1.1.2 LIGHT SOURCE

- Technology: LED (cold light source)
- Lifespan: At least 30,000 operating hours
- Power Consumption: 94.5W or less
- LED Light Source with control options on Camera head, Console and remote access
- Color temperature should be in 5,500 – 8,500 K nominal range
- Should have Automatic light output control functionality for producing synchronized pulse width modulated light output.
- Should be compatible with light cable options from: ACMI™ Standard, Storz™, Wolf™, and Olympus™
- The system should be provided with Universal fibre optic cable – 1 Qty

1.1.3 RECORDING & DOCUMENTATION SYSTEM

- Should be built-in system with at least 128GB hard disk or should be provided with a separate recording system with 500GB or more space
- Should be able to record multiple patients' data with proper differentiation and no single folder (USB or Inbuilt).
- Should have option to annotate images at the end of the surgery
- Should convert images into Pdf Format (Patient Report ready)
- Should Click images in 4K
- Should Record videos in HD(1920x1080) Quality.
- Should be able to transfer the data to USB, iPad or Network
- Should have 4 or more USB outputs for data transferring

1.2 4K CAMERA HEAD

- Image & Video Sensor: 1 chip 4K CMOS or more
- Should be autoclavable with at least 1,000(One Thousand) cycles.
- The imaging Scanning Pattern should be Progressive
- Aspect Ratio: Capable of displaying wide screen 16:9 format.
- Overall Resolution: 3840 x 2160p
- Cable length should be 10ft or more
- Digital Zoom or Optical Zoom availability
- Should be provided with fixed coupler or c-mount coupler
- Should be compatible with all rigid scopes for multi-speciality use.
- Camera head should provide 17 or more different custom button setting on 2 or more camera head buttons.
- Should have Ergonomic camera head design to help in reducing hand fatigue
- Sterilization Parameters: camera head must be able to accommodate steam and chemical sterilization, and should be soakable

1.3 4K MEDICAL GRADE MONITOR

- Screen technology TFT AM LCD / LED backlight
- Active screen size (diagonal): 31 inch or more
- Aspect ratio (H:V) 16:9
- Resolution: (3840 x 2160 pixels)
- Screen protection: Anti-reflective tempered glass
- Power consumption: 100W (Max)
- Power Supply: 100-240 VAC / 47-63 Hz

2. 4K ARTHROSCOPE SET

- Should be a 4K Telescope with length not more than 160mm and diameter 4mm
- Angle of View 30deg – 2 QTY
- Angle of View 70deg – 1 QTY
- Should be autoclavable
- Compatible sheath & Obturator – 3 QTY(1 for each scope)
- Standard Ocular window for coupling the camera head
- Preferable to have a speed lock fixation in the Sheath.

3. ARTHROSCOPIC SHAVER SYSTEM

- Should have intuitive touch screen display with automatic handpiece recognition
- Should control the shaver settings via touchscreen of foot pedal
- Functions: Oscillation, Forward, Reverse
- Should have 3 oscillation modes: STD, EFF, AGG with variable speed settings
- Should have 2 channels each for Shaver Handpiece and Shaver Footswitch
- Handpiece should not be more than 850 gms
- Handpiece should be compatible with blades of sizes 3.5-5.5mm in diameter
- Cable length should be adequate and not less than 4meters
- FWD/REV should atleast be of 8000RPM
- OSC should atleast be of 3000RPM
- Handpiece should have shaver blade with quick release
- Handpiece should be autoclavable with detachable suction lever
- Footswitch should perform functions like Reverse, Forward, Oscillation, Speed increase and toggle between oscillation modes
- Should be provided with following blades – (TOTAL 10 QTY)
 - 4mm conical tip blade for menisectomy: 2 QTY
 - 4mm aggressive blade for soft tissue debridement: 2 QTY
 - 4mm conical tip and curved shaft blade: 1 QTY
 - 4mm blade for resection of meniscus, synovium, cartilage: 2 QTY
 - 4mm curved shaft blade for articular cartilage: 1 QTY
 - 4mm Round Burr for Notchplasty and subacromial decompression procedures. 2 QTY

4. ARTHROSCOPY FLUID MANAGEMENT SYSTEM

- Should have Intuitive Touch Screen Control with 4 presets: Shoulder, Knee, Small Joint, Hip.
- Should have Flowrate: ≥ 1500 ml/min and should be automatically adjusted
- Max. Flowrate setting: adjustable from 50% to 100% (increments of 10%)
- Pressure setting: 10 – 120 (increments of 5)
- Should have real time flow rate monitoring.

- Estimated fluid usage information should be displayed on the screen.
- Should have ShaverBoost & Lavage functionality.
- Overpressure control: 300 mmHg $\pm$ 5
- Weight: 6.24 kg
- Water protection class: IP22
- AC input: 100-240 V, 50/60 Hz, 1.5A Max/100VAC, 0.7A Max/240VAC
- Should be supplied with 10 quantities of Disposable tube sets along with the system.

5. ARTHROSCOPIC RF SYSTEM(BI-POLAR)

5.1 RF CONSOLE

- Should have Intuitive touchscreen control with Automatic detection of connected probe.
- Control via hand-control buttons on probes, foot pedal or touchscreen
- Hand control also available with foot pedal connected.
- Optional foot pedal override functionality
- 3 button control with Ablation, Coagulation, Ablation-Power-Setting on Probe
- Should have metal proximity detection: suspends power when close to metal objects
- Probes can get unplugged and replugged during surgical time and system can therefore withstand power-interruptions.
- Working frequency: 100kHz
- Water protection class: IP22
- Max. power consumption: 650 VA
- Noise level: < 42dB
- Applied part type: CF
- Medical device directive: Class IIb

5.2 RF FOOTSWITCH or RF FOOT PEDAL

- Buttons: Ablation; Coagulation; Ablation power setting
- Water protection class: IP68
- Cleaning/disinfection:
 - Cleaning: enzymatic cleaner without subsequent acid neutralization
 - Surface wipe-disinfection with commercially available surfactants or surface disinfectants

5.3 RF BIPOLAR PROBES

- Should be provided with a 90-degree probe with round tip – 2 Qty
- Should be provided with a 90-degree probe with oval tip(size more than round tip) – 2 Qty
- Should be provided with a 90-degree hook probe – 2 Qty
- Should be provided with a 50-degree probe – 2 Qty

Electro Surgical Bipolar and Monopolar with Vessel sealing machine –

Patient Plate Contact Quality Monitoring System.

HF leakage monitoring & controlling system.

Multiple Microcontroller supervision for RF power accuracy.

Realtime tissue Impedance monitor for Power control

Power up Selftest to ensure, the unit healthiness.

Handswitch and footswitch short detection during Selftest.

+Reliability

No need of Voltage Stabilizer, can work in lower voltage.

* Convection Cooling System, offers better Reliability.

Built-in line filter protects from voltage surges and bad line Conditions. Hence no need to use of spike buster.

Works on Generator, Inverter & UPS.

ALAN's proven track record for more than 10 years.

General Features

- ❖ Feather touch membrane keyboard for Power, Mode, Program and Footswitch selection etc. for easy operation of Machine.
- ❖ User programmable 99 memory locations.
- ❖ Footswitch selection etc. for easy operation of Machine.
- ❖ Can Seal up to 7mm Vessels.
- ❖ 5 Different ligation levels for different Vessel Thickness.
- ❖ 2 Different Fast Ligation Levels for Faster Sealing Cycle.
- ❖ Faster Sealing Cycle with Less Thermal spread.
- ❖ Works with all sealing instruments, 5mm, 10mm etc...
- ❖ Isolated Monopolar & Bipolar outputs.
- ❖ Simultaneous Coagulation for 2 surgeons in Monopolar mode.
- ❖ Monopolar outputs can be activated via Handswitch and Footswitch.
- ❖ Special EndoCut mode for Polypectomy & Papillotomy.
- ❖ 9 levels are given in Endocut to achieve varying speed, depth and sharpness of the cut.
- ❖ Auto-Stop in Bipolar & Monopolar for optimum coagulation effect.
- ❖ Digital volume control and audio-visual indications for all outputs.
- ❖ Restoration of previous activated power settings.
- ❖ Reduced R.F distortion due to noiseless performance.
- ❖ User Settable Auto start delays in Bipolar.
- ❖ User settable maximum RF activation Timeout limit.
- ❖ Multiple Microcontrollers supervision Automatic Diagnosis enables Instant power response against tissue density & impedance variation and Adjust power.
- ❖ PPCM monitors Split/Non-Split type patient plates and deactivates output power with audio-visual alarm during improper contact between patient and patient plate to eliminate the risk of site burns.
- ❖ Using Alan's 3 pedal footswitch Monopolar and Bipolar can be operated without changing any settings in the machine.
- ❖ 3 Pedal Footswitch is explosion proof and water proof.
- ❖ Compatible with Wireless Footswitch.
- ❖ Well, suited for Underwater (TURP), Micro, Major, Gynaec, General and all other Surgeries
Upgradable to Argon beam coagulator"
- ❖ Maximum output of 400 Watts.

Optional Feature

- ❖ Specifications are subject to change due to continual Development & upgradation.
- ❖ ESU is Also Popularly Known as E. S. Diathermy & E.S. Cautery.

Clinical Benefits

MONOPOLAR :-

Pure : Monopolar Cut mode for underwater (TURP) and general surgeries.

Low Cut : Mode specifically tailored for Laparoscopy.

Blend : Cutting with coagulation effect.

Endocut : : Special mode for Polypectomy & Papillotomy

Spray : Impulse modulated sinuous waveform for non- contact coagulation and (TURP) underwater procedures.

Fulgurate/Force : A low spray waveform suitable for non-contact coagulation on oozing surfaces and (TURP) underwater coagulation

Desiccate : Standard coagulation mode.

Soft : Low Voltage coagulation mode for Delicate tissues.

A-D: Monopolar Desiccate Mode With Auto Stop

A-S: Monopolar Soft Mode With Auto Stop

BIPOLAR :-

Cut/Standard : Best coagulation mode when used with graspers. Specially designed mode for bipolar scissors.

Force/Macro : Faster Bipolar coagulation

Micro/Precise : Pinpoint coagulation for delicate tissues with less thermal spread

AUT: Bipolar Micro Mode With Auto Stop

SAS: Bipolar Micro Mode With Auto Start And Auto Stop

LIGATE :-

Ligate : 5 Different Ligation levels for standard seal mode

F-Ligate : 2 Different fast Ligation modes for Faster Sealing Cycle.

Input Supply

Input Supply : 230VAC +20% 50 Hz

Power Consumption : 750VA Max.

Loading Duty Factor : 10Sec (Active)/
30Sec (Pause)

Input Fuse : 5 AT

Output Control : Digital Display, Push buttons in all Modes.

Safety Standards

Basic Construction : Accordance with

IEC 60601 -1,
IEC 60601 -1 – 2 &,
IEC 60601 -2 - 2

Protection Class : 1

Unit Type : CF

All Outputs : Floating Outputs

Electrical Potential : Connecting pin

Balancing : Indicated by symbols

Max Weight : 6 kg

Size (in mm) : 340 (W) X 170 (H) X 420 (D)

Accessories

- ❖ Bipolar cable -1
- ❖ Bipolar forceps -1
- ❖ Monopolar handswitch pencil -1 & (2 extra)
- ❖ Monopolar footswitch pencil -1
- ❖ Power cable -1
- ❖ 3 pedal footswitch -1

SPECIAL LUBRICANT FOR STOPCOCKS:

- ❖ INSTRUMENT OIL, 50 ML, SILICONE-FREE:
- ❖ WADDING SILVER POLISH "DURAGLIT":
- ❖ CLEANING BRUSH, ROUND, RIGID, OUTER DIAMETER 16MM FOR WORKING CHANNEL DIAMETER 4 – 14 MM, LENGTH 55 CM:
- ❖ CLEANING BRUSH, ROUND, RIGID, OUTER DIAMETER 1MM FOR WORKING CHANNEL DIAMETER 3-9 MM, LENGTH 35 CM:
- ❖ CLEANING BRUSH, ROUND, RIGID, OUTER DIAMETER 7 MM, FOR WORKING CHANNEL DIAMETER 2.5-5 MM, LENGTH 35 CM:
- ❖ CLEANING BRUSH, ROUND, RIGID, OUTER DIAMETER 2.5 MM, FOR WORKING CHANNEL DIAMETER 2-2.4 MM, LENGTH 35 CM:
- ❖ BRUSH FLAT FOR CLEANING JAWS:
- ❖ **NOTE:-** ALL INSTRUMENTS AND ACCESSORIES SHOULD BE QUOTED FROM SAME MANUFACTURER FOR BETTER COMPATIBILITY AND AFTER SALE SERVICE.

Head
Department of Orthopaedics
Vt. Medical College & Hospital,
Chandrapur

Assistant Professor
Department of Orthopaedics
Vt. Medical College & Hospital,
Chandrapur

Associate Professor
Department of Orthopaedics
Vt. Medical College & Hospital,
Chandrapur

Department of Orthopaedics

Technical Specification

Knee Instrument Set

- 1) All instruments should be USFDA and CE approved
- 2) All the instruments should be supplied by one manufacturer
- 3) All instruments should exactly match the specification provided.

SL NO	GENERAL SPECIFICATIONS
1	Universal handle with simple wheel locking mechanism for one handed adjustment of marking hook at desired position should accommodate multiple drill sleeves for retrograde reaming and antegrade reaming with feature of side release mechanism to disengage easily from the drill sleeve in open/arthroscopic ligament reconstruction.
2	Femoral foot print ACL marking hook for Retro construction drill guide to be used from lateral portal for making anatomic tunnel having 7-8mm round tip to visualize socket before drilling and has both options as right and left.
3	Tibial ACL marking hook for Retro construction drill guide with 8-10mm wide tip with 7-8mm pin exist from cross hair laser mark.
4	3.5mm stepped drill sleeve for creating sockets The drill sleeve optionally can act as a depth stop for retrograde drilling
5	A Ratcheting Drill sleeve for Retro construction drill guide, 2.4mm for entry point in bony footprint and calibrated in order to measure intraosseous tunnel lengths during arthroscopic ligament reconstructions.
6	Tibial PCL marking hook for Retro construction drill guide with 10-11mm dia tip with calibrations with guide pin stopper at the centre to visualize PCL footprint & protect posterior structures from entering drill pin.
7	An outside in Femoral PCL marking hook for Retro construction drill guide with 8-10mm dia tip to allow visualization of PCL femoral tunnel before drilling.
8	The reusable reamers with "flower tip" design specifically designed for femoral tunnel drilling and cutting edges ensures smooth reaming without damaging the condyle through medial portal in arthroscopic or open ligament reconstruction. The diameter size available from 5mm-12mm with 0.5 increments.
9	The reusable reamers with graduated depth marks designed for ligament reconstruction specially designed for tibial tunnel drilling. The diameter size should be available from 4-12mm with 0.5 increments .
10	Transportal femoral offset Guide designed specifically for anteromedial portal approach and allow easy femoral socket placement, maintaining appropriate backwall thickness, should be available in 4mm through 8mm.
11	Hamstring tendon stripper has calibrated markings on the shaft for graft length determination during harvesting with closed and open end options and should be available as 5 or 7mm size.
12	Tunnel Notcher designed to create an appropriately sized "key hole" in the anterior wall of femoral tunnel to facilitate guide pin entry in ligament reconstruction
13	Metal Graft sizing block 6-10mm diameter holes in 0.5mm increments for determining the graft diameter with smooth edges on atraumatic entry of the graft and should have scale on the edge to determine the length of the graft
14	A cup shaped PCL proximal end Curved Curette Close end to protect posterior structures during PCL reconstruction
15	A Meniscal root repair jig with hooked end for posterior locking and 3 horizontal marks on 5,7.5,10 mm for anatomical footprint entry point with curved end perfectly fitting under condyle.
16	A meniscal root repair jig fitting the hook with angle calibration and external push button mechanism depth adjuster i.e. 5,7.5,10 mm for anatomical footprint entry and compatible with meniscal marking hook for perfect assembly

17	ACL Cruciate Toolbox Instrument case reusable and fully autoclavable instrument case to facilitate easy placement of above instruments in a pre-determined slot for longer durability of instruments
18	A reusable with 40° designed proximal tip to perforate the base of osteochondral defects faster and safer. The tip hardened with titanium nitride provide visual 3mm depth control during defect perforation. Delrin endcaps allows use of a mallet to assist in perforation
19	Graft master Preparation Board Long lightweight board with Nonslip feet, with attached graft preparation base, calibrated and sliding posts to accommodate different graft preparation attachments. The board should have small slot for BTB graft measurement and preparation.
20	Graftlink preparation attachment with press fit locking on the base to sliding post and slot for titanium button locking.
21	Tissue clamp with press fit locking mechanism on the sliding posts on the board.
22	Graftlink preparation attachment with tensioner with press fit locking on to sliding post of the graft board, a slot for titanium button locking and also has adjustable tensioner mechanism for optimum graft tensioning.
23	A reusable small angled proximal shaft ball tip with abraded surface for using it to increase the blood flow in arthroscopic meniscal repair/ reconstruction procedures.
24	A Sterile trocar tip 2.4mm guide wire for arthroscopic ligament reconstruction procedure with length of 435mm and suture eye on distal end.
25	A Sterile nitinol guide wire for ease of entry for interference screw during open/ arthroscopic ligament reconstruction-

Optional Instruments

1	A universal reusable hexalobe interference screw driver for ligament reconstruction. The tip of the screw driver should reach till the tip of the screw for better torque while fixation.:-
2	A reusable with almost 90 degree curved proximal shaft with abraded tip for bone preparation during PCL reconstruction surgeries:-
3	A reusable pin tip tibial marking hook with calibrated shaft during arthroscopic ACL reconstruction tibial tunnel preparation

Head
Department of Orthopaedics
Govt. Medical College & Hospital,
Chandrapur

Assistant Professor
Department of Orthopaedics
Govt. Medical College & Hospital,
Chandrapur

Associate Professor
Department of Orthopaedics
Govt. Medical College & Hospital,
Chandrapur

Department of Orthopaedics

Technical Specification

Shoulder Instrument Set

SL NO	GENERAL SPECIFICATIONS
1	Probe hook with 150mm shaft length with 3.4 mm wide tip alongwith 5mm markings for calibration
2	A Knot pusher closed end with modified blue handle in order provide ergonomic feel and distal edges should be smooth In order to avoid suture cutting in rotator cuff repair.
3	A tissue grasper of 4.2mm diameter shaft with self releasing locking mechanism an serrated tip for better hold of tissue during arthroscopic repair procedures.
4	A reusable suture cutter open ended with 4.2mm diameter left opening and total length of 13cm compatible with #2 UHMWPE :-
5	A Reusable, Straight, tissue penetrating suture capturing device with small diameter & very sharp tip with downward jaw opening and it should have 3.4mm shaft diameter to resist bending. It should be self releasing locking mechanism handle.
6	A Reusable, right curved , tissue penetrating suture capturing device with small diameter & very sharp tip with downward jaw opening and it should have 3.4mm shaft to resist bending. It should be self releasing locking mechanism handle
7	A Reusable, Left curved , tissue penetrating suture capturing device with small diameter & very sharp tip with downward jaw opening and it should have 3.4mm shaft to resist bending. It should be self releasing locking mechanism
8	A Reusable, 45 degree up jaw tissue penetrating suture capturing device with 2.75 diameter sharp tip with upward jaw opening .It should be self releasing locking mechanism handle
9	A Reusable, 22 degree up jaw tissue penetrating suture capturing device with 2.75 diameter sharp tip with upward jaw opening .It should be self releasing locking mechanism handle
10	A reusable suture cutter flat with 3.4 mm diameter designed specifically for cutting of UHMWPE tapes and total length of 13cm.:-
11	A reusable bone punch with two black markings on the shaft distal end for creation of pilot hole in order to facilitate easy insertion of both PEEK and Biocomposite medial row and lateral row 4.75/5.5 mm anchors in RC repair
12	A reusable sharp distal end obturator for facilitation of easy entry of 6.25 mm diameter cannula in arthroscopic portals with similar color coded handle as that of 6.25 cannula color in order for easy identification.
13	A reusable sharp distal end obturator for facilitation of easy entry of 8.25 mm diameter cannula in arthroscopic portals with similar color coded handle as that of 8.25 cannula color in order for easy identification.
14	A reusable stainless steel stick of 4mm diameter and 16 inch length with blunt pointed end to avoid damage of delicate structures .

15	A reusable both side cutting sharp edges 5.4mm diameter ring curette with 15cm in length in order to easy removal soft tissue on the bone while doing RC /instability repair and create a bleeding bone surface.
16	A reusable and fully autoclavable instrument case in order to facilitate easy placement of above instruments in a pre determined slot for longer durability of instruments.
17	A reusable 15 degree downward curved rectangular tip tissue elevator with approx. 15cm of shaft in order to release the labrum off the glenoid neck for easy mobilisation and fixation of labrum onto the glenoid :-
18	A 3.4mm diameter shaft reusable, Straight suture capturing device with small diameter & blunt tip to avoid suture damage.

Optional Instruments

1	The reusable proximal hook tip instrument to retrieve suture loop in tight spaces.
2	A reusable UHMWPE tape suture retriever with 3.4 shaft diameter and proximal tip upper jaw having small roller pin for ease of sliding while pulling the tape as well as its serrated to grab a suture during shoulder arthroscopy procedures. The handle should be of self ratechting mechanism AR-139745R

 Head
 Department of Orthopaedic
 Govt. Medical College & Hospital, Chandrapur

 Associate Professor
 Department of Orthopaedic
 Govt. Medical College & Hospital, Chandrapur

 Assistant Professor
 Department of Orthopaedic
 Govt. Medical College & Hospital, Chandrapur

Department of Orthopaedics

Technical Specification

Special Arthroscopic Special Instrumentation (Scorpions)

SL NO	GENERAL SPECIFICATIONS
1	The single portal, reusable, low profile rotator cuff suture passer with 4.5mm diameter and 17 cm length side loading design in order to avoid slippage and avoid damage of the suture and should fit inside 6mm cannula. Jaw design should grasp upto 16mm of thick tissue. The device to be used with disposable needle and should be able to pass and retrieve suture in one step. The suture passer should engage # 2 UHMWPE suture or 1.3mm UHMWPE tapes
2	The single portal, reusable meniscus suture passer with low profile 5 degree up curve tip and 3.2 mm narrow and 4.6mm width shaft and 13 cm shaft length, it must be a reusable and autoclavable device to be used with disposable needle and should be able to pass and retrieve suture in one step. The suture passer should have ability to pass 0 or 2-0 UHMWPE suture or 0.9 mm UHMWPE tapes.-
3	The single portal, reusable Labral suture passer with low profile tip design and designed to grab up to 15mm of tissue. The lower jaw should be contoured to fit between glenoid and labrum and easily maneuvers in glenohumeral space in arthroscopic/ mini open glenohumeral soft tissue. It must be used with disposable needle and should be able to pass and retrieve suture in one step. The suture passer should fit in 6mm cannula and must allow engagement of #2 UHMWPE sutures or 1.3mm UHMWPE tapes-

Head
Department of Orthopaedics
Govt. Medical College & Hospital,
Chandrapur

Assistant Professor
Department of Orthopaedics
Govt. Medical College & Hospital,
Chandrapur

Associate Professor
Department of Orthopaedics
Govt. Medical College & Hospital,
Chandrapur