

**TENDER SPECIFICATION OF ARTHROSCOPY INSTRUMENT SET (KNEE+SHOULDER)  
WITH ALL ACCESSORIES - BNS PATENGA**

1. **Name of Equipment.** ARTHROSCOPY INSTRUMENT SET (KNEE+SHOULDER) WITH ALL ACCESSORIES.
2. **Purpose.** To be used in Orthopedic Department.
3. **Quantity.** 01 (one) complete sets.
4. **Make /Model.** To be mentioned.
5. **Brand:** To be mentioned.
6. **Name of Manufacturer.** Name and full address of manufacturer is to be mentioned.
7. **Country of Origin:** USA/ Canada/ UK/ EU/ Japan/ Australia/ South Korea.
8. **Manufacture of Country:** USA/ Canada/ UK/ EU/ Japan/ Australia/ South Korea.
9. **Port of shipment:** Shipment to be made from the manufacturing Country.
10. **Qualification of Bidders:** Bidders must be enlisted in NSSD Dhaka.
11. **Year of Manufacture.** 2022 or later.
12. **Source of Supply:** Bidders/Suppliers are to be mentioned the name, address and contact details of original source from where goods would be imported. Any software required for installation or proper operation of the equipment is to be provided with original CD.
13. **Price without import duties:** Quoted price is to excluded all import duties as those will be consigned against BN.
14. **Ambient Condition.** The **Arthroscopy Instrument Set (Knee+Shoulder) with all Accessories** will be operated and maintained in the following ambient conditions:

a	Ambient air temperature	5°C - 45°C
b	Relative humidity	Up to 95%

15. **Scope of Supply:** 01 (one) complete sets of **Arthroscopy Instrument Set (Knee+Shoulder) with all Accessories** will have to be supplied with all attachments, accessories etc and complete in all respect for immediate operation.

16. **Technical features /facilities**

a.	4K (3840X2160P) 3-Chip CMOS camera technology combined with a LED 32" monitor, autoclavable camera head, electronic light guide (ELG) integrated with LED light source, HD image management (HD video recording & still capture) system with printer and video trolley system.
b.	Arthroscopy autoclavable shaver and drill system
c.	Knee arthroscopy instruments with all standard accessories(Three Telescope: 0°, 30°, 70°)
d.	Shoulder arthroscopy instruments with all standard accessories
e.	Small joint (ankle & wrist) arthroscopy instruments with all standard accessories
f.	Hip arthroscopy instruments and standarad accessories
g.	Arthroscopy irrigation pump system
h.	Bi-polar and monopolar arthroscopic radio frequency energy system
j.	Assistarm limb (knee, shoulder and ankle) positioner
k.	Mosaic plasty – set with all standard accessories
l.	Foor suction system with all accessories
m.	Meniscus repair set with all standard accessories



**Technical Specification**

a. 4K (3840X2160P) 3-Chip CMOS camera technology combined with a LED 32" monitor, autoclavable camera head, electronic light guide (ELG) integrated with LED light source, HD image management (HD video recording & still capture) system with printer and video trolley system consist of:

b. **Looking glass camera head - 4K 3MOS eyecup, Qty: 01**

**Feature and Specification:** 4K Camera Head Design, w/5 buttons, Auto clavable:

- (1). **Crisp 4K Technology 4K:** delivers precise, detailed imaging for multi-specialty visualization.
- (2). **Innovative 3-CMOS Color Imaging:** 3-CMOS offers a dedicated chip for each color spectrum (red, green, blue), while a single CMOS chip works to blend all colors.
- (3). **Customizable 5-Button Design:** Unique 5-button design allows you to customize the system to your preferences so you can easily make adjustments from the OR sterile field.
- (4). **Autoclavable to Keep Costs Down:** Autoclavable camera heads eliminate the need for expensive sterilization methods. This improves efficiency while maintaining maximum performance.
- (5) The Looking Glass System was designed for the most demanding ORs. In addition to image clarity and picture, this reliable system has been engineered to withstand mishaps in the OR – with features intended to reduce set up time and repair costs to fiber optic cables and camera heads:
  - (a) Shock Flex™ Prism mounting on camera heads protect against drops up to nearly 4 feet.
  - (b) Gorilla® Glass 1 on monitor provides high resistance to accidental scratches from pointed edges on gas columns, OR lights or entry doors.
  - (c) Gorilla® Glass mitigates the need for protective plexi glass screen covers that could potentially affect the colors of the image

**New body design** Allows Surgeon to comfortably hold Camera Head in various positions

- (6) **Low profile coupler** Noloocking (rabbitears) screws required to hold copein coupler Allows Surgeon asierind exing with finger operation than with IM8120. Scope(POSTING) & Allows Surgeon asierind exing with finger.
- (7) **Tactiles copecoupler** User can feel when the Scope is correctly seated and locked in to the coupler and can then adjust friction to prevent unwanted scope rotation.
- (8) **Multi-function Camera buttons** Customizable button functionality Surgeon press "I" button for CH button configuration, graphical image on monitor, intuitive interface Surgeon access to menu settings program Individual surgeon settings, 8 potential commands **ix .3-4K Chip Sensor, CMOS 3Chip Sensor, CMOS improve dimageq uality and color accuracy**

c. **Looking glass cable connector interface, Qty:01**

**Feature and Specification:**

- (1) Looking Glass Cable Connector Interface (CCI): Designed for flexibility and convenience during both installation and clinical use, the CCI replaces traditional bulky camera boxes with a compact console where the Looking Glass™ camera head and light cables connect.
- (2) **Easy Connection** - Easily connect and disconnect camera heads and light cables.
- (3) **Integration** - Integrated USB port connects to Looking Glass image capture to simplify transferring images and video to external memory devices.
- (4) **LED Indicator Lights** - LED indicators show when the CCI is powered (green) and when the camera head and light cables are plugged in and initialized (blue).



d. Looking glass 4k integrated visualization system, Qty:01

Feature and Specification:

- (1) Looking Glass™ 4K Integrated Visualization System: Has a new look and feel compared to traditional monitors. Remember this is not just a monitor, it's an integrated system housing the camera controller and power source for ELG.
- (2) Classification:Class1,TypeCFAppliedParts(AV41CHE,AV41LG)
- (3) Mainspower:100-240VAC,50-60Hz,0.8Amp
- (4) ImageSensor:3CMOSSensors1/3inch
- (5) DisplayResolution:4K(17:9)(forimageresolutionof4096x2160)
- (6) Video Outputs: UHD3840x2160p,16x9,50Hzor60Hz
- (7) Weight (console): 32.3lbs.(12.1kg)

e. Cover for 32" 4k monitor, Qty:01

f. Electronic Light Guide (ELG) with Adapter

g. eLuma Electronic Light Guide (ELG) Qty:01

Feature & Benefits: A Bright Future with the eLuma™ Electronic Light Guide (ELG) Say goodbye to fragile fiber optic cables that degrade with handling over time. To help optimize your visualization, the eLuma™ ELG puts the light source directly where you need it - at the scope. The eLuma™ ELG is a reliable, lightweight cable delivering natural lighting for a realistic color reproduction by achieving consistent and reliable light output throughout their lifetime. eLuma™ELG combines a traditional light source and light cable into one integrated design. This product not only saves valuable space in the OR, it's designed to reduce cost of ownership when compared to traditional light sources and fiber optic light guides.

- (1) eLuma™ Conmed Threaded Adapter, Qty:01
- (2) Scope Threaded Adapter, Qty:01.

h. Touch glass standard image capture, Qty: 01

Feature & Benefits: The Touch Glass™ Standard Image Capture and Content Management System are the next generation of high definition image capture system that are designed to improve how hospitals manage surgical footage both in and out of the OR. Featuring an all-in-one integrated design and easy-to-use touch screen interface, this system puts state-of-the-art image capture at your fingertips.

- (1) Dual High Definition Video Inputs: Dual-HDMI video inputs capture surgical footage with crisp, clear image quality which can be later upscaled to 2560 x 1440 resolution.
- (2) Easy-To-Use Touch Screen Interface: 12.5" touch screen provides a familiar smartphone-like user interface. An optional keyboard and mouse are available as well.
- (3) Wireless Connectivity and Automatic Archiving: System can connect to hospital ASC networks to share files and automatically archive copies of media files to network drives using the Med X Stream/Equivalent App.
- (4) Convenient Access from Outside the Sterile Field: System can be attached to the Secondary articulating arm of the Looking Glass™ Video Cart located away from the Sterile field – allowing easy access for nurses.
- (5) Additional Feature: Capture still images from playback• Ability to live stream video and audio for educational applications.

Technical Specifications:

- (1) Still Capture: Up to 1920x1080
- (2) Hard Drive Capacity: 1TB
- (3) Operating System: Windows 10 Enterprise (LTSC) "Long Term Service Branch
- (4) Power Input: 12 VDC
- (5) Overall Dimensions: 415mm (W) x 266mm (H) x 87mm (D) (Approximately)
- (6) Weight: 3.63 kg (8 lbs.)

ms



**(j) ULTRA HD 4 MM -****(i) 30 Deg - 157 MM WL, Qty:01****(ii) 0 Deg - 157 MM WL, Qty:01****(iii) 70 Deg - 157 MM WL, Qty:01****Features:**

- a. The UHD 4 mm scope is intended for customers, such as orthopedic surgeons, who could benefit from a shorter working length and better clarity, such as arthroscopic knee & shoulder procedures.
- b. Shorter working length of 157 mm helps; this helps compete with other competitors who also have a similar working length.
- c. Increase of the optical quality, to increase the clarity and view.
- d. Noticeable improvements in light transmission and vignetting for better clarity and brightness.
- e. New sheath system allows for lavaging, which is key for many arthroscopic cases post operatively to flush out loose debridement.
- f. The UHD scopes are compatible with all standard DI eyecup camera heads, i.e., IM8120, 81-10-2100, 81-10-4100.
- g. Improved resolution and depth of field bring attention to critical details and provide a realistic perception of the working cavity.

**k. 5.9 mm, dual stopcock arthroscopy sheath with obdurate system ,Qty:01****Features:**

- (1) The updated Quick Latch TM Bridge design increases durability and provides excellent distal tip protection. Tangent position of the scope and proprietary stopcock design provide excellent flow rates in both the 5.5 mm and 5.9 mm sizes.
- (2) The Quick Latch Bridge for 4 mm scopes are available in both single and double stopcock versions. Two-Connect adapter allows for "bridging" with Con Med's pressure sensing pumps (4.6 mm Cannulas are not compatible).
- (3) As with our previous scopes, we offer a standard and retaining bridge cannula; in multiple sizes for multiple requirements. Cannulated obturators are compatible with 3.175 mm switching sticks and partial rods.

**l. Video Tray Single Level,Qty:01**

- (1) Camera heads, Scopes, Sheaths, Cannula's and Bridge Systems Scopes, Sheaths, Cannulas and Bridge Systems with internal diameters no less than 2.3mm, outer diameter not less than 2.3mm or greater than 10mm, and with lengths no greater than 404mm may be sterilized in this tray.

**m. Full Page Digital Color Printer,Qty:01**

HD image capture systems which should prints in letter or A4 format and is medical grade. It will ideal for all applications where outstanding image quality and accurate color reproduction are essential. This fast and reliable dye sublimation printer is compact enough for video cart integration.

**Features**

- (1) Premium, photo-realistic prints
- (2) High-speed printing
- (3) Compact size and stylish design
- (4) Fits well on surgical video carts
- (5) USB 2.0 connection
- (6) Self-laminating roll media
- (7) Easy to operate
- (8) Letter or A4 Paper Size/50 sheet capacity.



**Specifications**

- (1) Power Requirements: 100 – 240 VAC, 50/60 Hz, 3.4 A to 1.4 A
- (2) Controller: 12.5" h x 8.13" w x 16.75" l (31.7 cm w x 20.7cm h x 42.5cm d)
- (3) Weight: 25.3 lbs. (11.5 kg)

n. Color Print Pack, A4 Size, 100 Sheets, Qty: 01

**p. Endoscopic video trolley/cart, Qty: 01****Specification:**

- (1) AV8501 HAS BEEN UPGRADED WITH NEW ARTICULATING ARM AND NEW STABILIZER AND IRRIGATION STAND. VIDEO CART 230 V (MADE IN USA).
- (2) Same Company Brand as Quoted/ Offered Arthroscopy Equipment. Power Out Let Quantity minimum 10 (ten), Wheels 4.5" Twin Casters.
- (3) Five adjustable 14" shelves
- (4) Stainless Steel arms
- (5) Built in isolation transformer and cord reel Lockable rear doors  
H: 79.3 / 201.4 W: 22.5 / 57.2 D: 22.5 / 57.2
- Note: Dimensions listed are only for the cart; additional equipment or accessories may increase the overall dimensions. Wheels: Quantity 4, 5" twin casters (2 with locks) Power outlets: Quantity 10
- (6) Articulating Arm that supports a upto 32" Monitor
- (7) Articulating Arm for Secondary Monitor Folded up Key Board Tray
- (8) Adjustable Pump Mount.
- (9) Power Cord: 15 ft. with North American Hospital Grade Plug.
- (10) Electrical Ratings 100-240 VAC, 60Hz, 10.6 Amps.

q. Primary articulating arm, Qty: 01

r. Secondary arm with keyboard tray, Qty: 01

s. 10k pump holder, Qty: 01

**t. Arthroscopy auto cleavable shaver and drill system consisting of:****u. ERGO 2-button shaver handpieces, Qty: 01****Specification:**

- (1) Ergo 2-Button Shaver Handpiece Shaver Handpiece Is The Ultimate Device For
- (2) Arthroscopic Powered Resection.
- (3) Best-In-Class Torque
- (4) 12,000 Rpm For Aggressive Bone Removal
- (5) Ergonomic Design
- (6) Bi-Directional Blade Insertion
- (7) Forward & Reverse Speed 500 - 12000 Rpm
- (8) Oscillated Speed 500 - 2500 Cpm
- (9) Single And Multi Turn Oscillation
- (10) ULTRAFRR™ STEALTH™, dia: 4.2mm, working length 13 cm, Qty: 01
- (11) 4.5mm sterl vortex hooded high spd , Qty: 24
- (12) 4.2mm full redious resector, Qty: 24
- (13) 4.2mm great white, Qty: 24

**v. Console drive system w/ irrigation 230v, Qty: 01****Specification:**

(Touch-Screen Electric Console For Shaver And Drill/Saw) The Powered Instrument Console Drives Powered Instruments And Accessories Used In The Cutting Of Soft Tissue And Bone. The Consoles Provide Two Handpiece Drive Ports That Are Used With A Variety Of Handpieces. Handpiece Functionality Can Be Controlled Directly By Surgeon/Doctor to The Handpiece, And/Or By A Corded Footswitch Or Wireless Footswitch or OT staff.



**w. Power pro single trigger electric modular with saw drill HP , Qty:01****Specification:**

- (1) Small And Light Weight
- (2) Powerful Enough To Perform Total Joint / Arthroscopy
- (3) High Speed For Small Bone And Trauma Applications
- (4) Variable Speed Control Trigger For Maximum Control
- (5) Constant Unlimited Power Supply
- (6) Single Handed Operation Of Forward/Reverse Mode Switch
- (7) Drill/Ream Mode With Drill Attachment
- (8) Speed Range (Forward & Reverse) : 0~1275 Rpm
- (9) Torque : 25 In Lbs
- (10) H: 5.6 in, L: 3.8 in, W: 590 g.
- (11) POWERPRO 1/4 jacobs chuck
- (12) Pin driver, single trigger, 1.8-4mm

**x. Small joint saw & acl saw attachment system consisting of:**

- (1) Powerpro sagittal saw attachment, Qty:01
- (2) 9.40 x 41.0 x 0.38 mm acl blade, fine, Qty:05
- (3) 9.5 x 25.5 x 0.4mm acl blade, fine, Qty:05
- (4) 8.5x 38 x 0.4mm, micro choice acl blade, Qty:05

**y. KNEE ARTHROSCOPY INSTRUMENTS WITH ACCESSORIES CONSISTING OF:**

- (1) Infinity™ acl tibial footprint guide, Qty:02
- (2) Infinity™ acl tibial elbow guide, Qty:01
- (3) Infinity™ pcl tibial guide, Qty:01
- (4) nfinity™ guide sleeve straight, 2.4mm, Qty:02
- (5) Infinity™ guide body, Qty:01
- (6) 2.4 x 229mm (3/32in x 9in) guide pin for tibia calibrated, Qty:05
- (7) Xactpin graft passing guide pin, 2.4nn x 43cm, Qty:02
- (8) 3.5mm dia. Tip, Arthroscopic probe, straight, blue handle, Qty:02
- (9) Extended length depth probe / gauge, Qty:02
- (10) Grafix tunnel notcher , Qty:02

**z. Infinity anteromedial guides:**

- (1) Infinity™ anteromedial guide left, 7/8mm, qty:01
- (2) Infinity™ anteromedial guide right, 7/8mm, qty:01

**aa. Constant diameter spiral reamer:**

- (1) Xo button cannulated bit 5mm, qty:01
- (2) Constant diameter spiral reamer 5.5mmx 178.0mm, qty:01
- (3) Constant diameter spiral reamer -6.0mm x178.0mm, qty:01
- (4) Constant diameter spiral reamer 6.5mmx 178.0mm , qty:01
- (5) Constant diameter spiral reamer - 7.0mm x 178.0mm , qty:02
- (6) Constant diameter spiral reamer - 7.5mm x 178.0mm, qty:02
- (7) Constant diameter spiral reamer - 8.0mm x 178.0mm, qty:02
- (8) Constant diameter spiral reamer - 8.5mm x 178.0mm, qty:02
- (9) Constant diameter spiral reamer - 9.0mm x 178.0mm, qty:02
- (10) Constant diameter spiral reamer- 9.5mm x 178.0mm, qty:01
- (11) Constant diameter spiral reamer - 10.0mm x 178.0mm, qty:01

**ab. Mono fluted drill for femoral tunnel :**

- (1) 5.5mm sentinel drill bit 4 per box , qty:04
- (2) 6.0mm sentinel drill bit 4 per box , qty:04
- (3) 6.5mm sentineal drill bit 4 per box, qty:04
- (4) 7.0mm sentinel drill bit 4 per box, qty:04
- (5) 7.5mm sentinel drill bit 4 per box, qty:04
- (6) 8.0mm sentinel drill bit 4 per box, qty:04
- (7) 8.5mm sentinel drill bit 4 per box, qty:04
- (8) 9.0mm sentinel drill bit 4 per box, qty:04
- (9) 9.5mm sentinel drill bit 4 per box, qty:04
- (10) 10 mm sentinel drill bit 4 per box, qty:04

**ac. Tendon stripper:**

- (1) Concept grafix tendon stripper, 7.0mm closed, qty:02
- (2) Open loop tendon stripper 6.6 mm opening, qty:02

**ad. Curette:**

- (1) 3.0mm open curette ,qty:01
- (2) 4.0mm cupped curette, qty:01
- (3) 4mm pcl curved curette (closed), qty:01

**ae. RASP:**

- (1) 4.0mm straight rasp, qty:01
- (2) Meniscal rasp, 90 degree bottom and top serrations, qty:01
- (3) Pcl curved rasp, qty:01

**af. Micro fracturing awl:**

- (1) Microfracture awl, 0 degree, light, qty:01
- (2) Awl 30 degree, qty:01
- (3) Microfracture awl, 90 degree light , qty:01

**ag. Graft preparation table system:**

(1) This fully modular system plays a key role during ACL and PCL reconstructive surgeries to prepare soft tissue and bone-tendon-bone autografts or allografts. The system allows the surgeon to interchange the various components to clean, whipstitch, measure, pre-tension, or add a fixation device.

(2) The sizing block, sold separately, can accommodate grafts from 3.0mm to 13mm, in 0.5 mm increments.

(3) The universal slide locks allow for any of the graft preparation table components to be changed intraoperatively, easily and quickly. The slide locks are also fully adjustable via the spring loaded locking button, for one handed adjustments.

(4) The Tension Clamp is etched in both Pounds (30 lbs. max) and Newtons (120 N max) for quick referencing during pre-tensioning of the graft for those surgeons who feel it is necessary for satisfactory post-op results.

(5) The Graft Clamps are designed to act as an extra set of hands and incorporate atraumatic teeth to prevent damage to the graft:

- (a) Grafix graft preparation table, qty:01
- (b) Grafix prep table slide lock, qty:02
- (c) Grafix prep table graft clamp, qty:01
- (d) Grafix prep table suture holder, qty:01
- (e) Grafix prep table tension clamp, qty:01

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- (f) Grafix prep table scraping board, qty:01
- (g) Grafix sizing block grafix, qty:01
- (h) Xo button holder, qty: 01.

**ah. Zone specific ii meniscal repair system**

This complete system specifically designed for inside-out meniscal repair procedures features cannulas, needles and rasps. Six pre-bent cannulas provide optimum access to all zones of the meniscus with funnel ends that make the loading of needles safe and easy, and fluid venting ports direct fluid away from the surgeon. Double-arm meniscal repair needles are made of stainless steel, and are ultrathin and strong, yet flexible for easy passage. They have #2/0 high strength suture conveniently pre-attached. Meniscal repair needles are made of flexible nitinol, and have a large eyelet at one end to permit easy threading of suture material:

- (1) Zone ii right anterior cannula, qty:01
- (2) Zone ii right middle cannula, qty:01
- (3) Zone ii right posterior cannula, qty:01
- (4) Zone ii left posterior cannula, qty:01
- (5) Zone ii left middle cannula, qty:01
- (6) Double-arm meniscal repair needles with hi-fi suture, qty:30

**aj. Arthroscopy Manual/hand instruments :**

- (1) Linear wide bite punch 3.3mm dia., 130mm straight, qty:01
- (2) Linear wide bite punch 3.3mm dia., 130mm 15° up, qty:01
- (3) Linear wide bite oblique punch 3.3mm dia., 130mm 25° left, qty:01
- (4) Linear wide bite oblique punch 3.3mm dia., 130mm 25° right, qty:01
- (5) Concept linear 1.3mm straight punch, qty:01
- (6) Concept rotary 90 degree left punch, qty:01
- (7) Concept rotary 90 degree right punch, qty:01
- (8) Concept retro punch left 2.4mm, qty:01
- (9) Concept rero punch right 2.4mm, qty:01
- (10) Concept linear alligator grasper, qty:01
- (11) Concept linear narrow straight punch, qty:01
- (12) Mini tip 2.75mm left curve 30d, qty:01
- (13) Mini tip 2.75 right curve 30d, qty:01
- (14) Standard scissor 3.4 straight, qty:01
- (15) Micro scissor 2.75 straight, qty:01
- (16) Instrument tray 9"w x 10"l x 5.2"h (15 pcs hand ins capacity) , qty:01

**ak. Instrument organization and sterilization system:**

- (1) Sterilization container 3/4 size, 8 inch height, qty:02
- (2) Acl femoral instruments insert tray , qty:02
- (3) Acl/pcl accessories instrument insert tray, qty:02
- (4) Kps infinity insert sterilization tray, qty:02

**al. Shoulder arthroscopy instruments with accessories Consisting of:**

- (1) Ultra hd 4 mm, 70° scope, 157 mm wl, qty:01
- (2) Spectrum® ii soft tissue repair system
- (3) Designed for arthroscopic or open suturing of shoulder soft tissue
- (4) Large roller wheels increase traction with Shuttle Relay™ and suture material
- (5) Disposable and Limited Reuse interchangeable suture hooks allow precise suture
- (6) placement in otherwise hard-to-reach areas
- (7) Ergonomic handle design provides ease of maneuverability and handling



- (8) Unique key-lock insertion method allows for simple and reliable suture hook attachment
- (9) For use with #2/0 to #1 monofilament suture, Shuttle Relay or with Super Shuttle Suture Passer.
- (10) Suture hook handle spectrum ii, qty:01
- (11) Suture hook 60 deg right limited reuse, qty:01
- (12) Suture hook 60 deg left limited reuse, qty:01
- (13) Suture hook corkscrew rt limited reuse, qty:01
- (14) Suture hook corkscrew left limited reuse, qty:01
- (15) Suture hook straight limited reuse, qty:01
- (16) Super shuttle suture passer, qty:24

**am. Seahawk suture passer :**

- (1) The Seahawk Suture Passers are available in four tip configurations – two for labral repair and two for rotator cuff.
- (2) Designed for arthroscopic or open suturing of soft tissue
- (3) Unique "Single-pass" instrument
- (4) Pass and retrieve with one device
- (5) Designed to work with #2 sutures
- (6) Seahawk passer labrum left up, qty:01
- (7) Seahawk passer labrum right up, qty:01
- (8) Seahawk passer rc left up, qty:01
- (9) Seahawk passer rc right up, qty:01

**an. Autopass suture passer:**

- (1) Consistent performance in thick tissue
- (2) Two suture passers in one
- (3) All-inside suture passing eliminates a step
- (4) 18mm bite, Fits down 5.5mm cannula
- (5) Updated needle with optimized piercing tip, strong PEEK tab, and polymer coating for smooth actuation
- (6) Stiff shaft for durability
- (7) Anatomic depth markings on jaw in 5mm increments
- (8) Spectrum autopass suture passer, qty:01
- (9) Spectrum autopass disposable needle, qty:20

**ap. Necessary instruments and accessories:**

- (1) Looped handled knot pusher, qty:01
- (2) Revo crochet hook, qty:01
- (3) Suture snare straight, 3.5 dia., 138mm, qty:01
- (4) Grasping fcps std 3.4 str, qty:01
- (5) Suture retrieval forceps, 3.4mm dia, qty:01
- (6) Katana high strength suture cutter, qty:01
- (7) Rasp liberator knife ii, qty:01
- (8) Arthro. Switching sticks 2 ea, qty:02
- (9) Reusable cann obtur 8x75mm, red handle, qty:01
- (10) Biocuff c tissue grasper (optional pie) , qty:01
- (11) Dry-doc cannula, 7.0mm x 95mm, translucent blue w/ black cap, packaged sterile, with a disposable obturator, qty:12
- (12) Cannulated obturator (7.0mm x 95mm), black for use with blue-black dry-doc (c7369) , qty:01



- (13) Dry-doc cannula, 8.0mm x 85mm, translucent yellow, packaged sterile, with a disposable obturator, , qty:06
- (14) 8.0mm x 85mm hex flex cannula, translucent yellow packaged sterile, with disposable obturator, , qty:06
- (15) Cannulated obturator (8.0mm x 85mm), yellow for use with yellow dry-doc (c7368) and yellow hex flex (c7480) , qty:01
- (16) 5.0mm x 85mm hex flex cannula, translucent green packaged sterile, with disposable obturator, qty:06
- (17) Obturator cannulated ss fits 6x90mm, qty:01
- (18) Obturator. Cannulated. Ss. Fits 8.4x75mm, qty:01.

**aq. Sterilization tray :** SRS Instrument Tray Shoulder Restoration System – Instrument Tray.

**ar. Shoulder Holder :**

**Feature:**

Designed for upper extremity joint distraction during arthroscopic procedures» Adjustable to 0°, 30° and 45° angles to insure proper limb positioning» Attaches securely to most hospital beds» Designed for use in shoulder, elbow and wrist arthroscopy» Includes a vinyl-covered stainless steel cable for strength.

**as. Small joint (ankle & wrist) arthroscopy instruments with accessories consisting of:**

- (1) 2.9mm, 30 degree envision autoclavable eyecup scope (for, ankle) , qty:01
- (2) 4.0mm small joint double stopcock sheath (for, ankle) , qty:01
- (3) 1.9mm 30° autoclavable arthroscope » working length 60mm (for, wrist) , qty:01
- (4) 2.8mm sheath system for 1.9mm arthroscope (for, wrist) , qty:01
- (5) Blunt obturator (for, wrist) , qty:01
- (6) Standard grasper 2.75 x 90, qty:01
- (7) Sst tip forcep 2.75 x 90mm blunt, qty:01
- (8) 45° forceps 2mm dia., 90mm blunt tip, right, qty:01
- (9) 45° forceps 2mm dia., 90mm blunt tip, left, qty:01
- (10) 2.0mmfull radius micro shaver blade, qty:06
- (11) 2.0mm gator micro joint shaver blades, qty:06
- (12) 2.9mm spherical burr micro shaver bur, qty:06
- (13) 2.4mm smillie knife 65mm , qty:04
- (14) Small joint probe 90mm 30d tip, qty:01
- (15) Small joint open curette 90mm, qty:01
- (16) Small joint instrument case dimensions: 9.25"w x 5.25"h x 9"d, qty:01

**at. Arthroscopy irrigation pump system Consisting of:**

- (1) Irrigation console, qty:01

**Specification:**

- (1) Features & Benefits:
- (2) Intuitive One-Step/ One-Hand Cassette Loading
- (3) Flow Maximum: 2000ml/Min
- (4) Set Pressure: 150mmhg
- (5) Set Pressure: Maximum 150 mmHg
- (7) Arthroscopy in/out flow tube set, qty:10

2



**au. Bi-polar arthroscopic radio frequency energy system.****Feature:**

The Edge™ RF System is designed for performance, simplicity and safety. In addition to having all the features surgeons want in an arthroscopic RF system, like an intuitive touch-screen interface, the ergonomic hand-piece and choice of hand or foot controls make Edge the most user-friendly RF system available. To improve patient safety, the system provides real-time measurement of the joint fluid temperature and will automatically shut off if a probe comes into close contact with any metal instruments. The single piece electrode design promotes probe integrity throughout the entire procedure:

- (1) Arthroscopy energy generator, qty:01
- (2) Edge bipolar rf probe 50 degrees with suction, qty:10
- (3) Edge bipolar rf probe 90 degrees with suction, qty:10

**av. Assist arm limb (knee, shoulder and ankle) positioner Consisting of:****Specification:**

Orthopedic procedures:

Assist Arm – The unique approach to limb positioning for a wide range of orthopedic procedures

**Powered Kinetically**

- (1) A simple push on the foot pedal unlocks the AssistArm™ for easy maneuvering.
- (2) No external power dependencies, resulting in low maintenance costs and minimal downtime.
- (3) No pressurized-air conduits to maneuver.

**Unparalleled Ease of Use**

- (1) Universal clamp attaches easily and securely to the rail of all types of surgical tables
- (2) Lightweight carbon fiber construction for easy handling
- (3) Easy installation ensures rapid OR set-up and dismantle
- (4) Customized disposable sterile kits accelerate OR prep and clean-up

**Limb Stability**

- (1) Limb is positioned by hand for greater tactile feel
- (2) Reach clinically-relevant limb positions without compromising sterile zone
- (2) Improved site exposure for better assessment of joint condition

**Knee – Ensures precise positioning for full site exposure**

AssistArm can be used in knee arthroscopy (ACL, meniscus, trauma), unicondylar knee replacement, and total knee replacement. The ambidextrous knee attachment gives surgical teams the single-handed ability to:

- (1) Easily maintain desired distraction to access operative compartment
- (2) Achieve hyperflexion, full extension and figure-4 positioning without requiring assistance to manipulate and hold the limb in position

**Shoulder – Beach chair and lateral decubitus**

Tactile feel during arm movement is essential to assess ligament and muscle tension, as well as validate range of motion. The AssistArm™ delivers unparalleled precision for beach chair and lateral decubitus shoulder procedures.

- (1) Using traction unit in lateral decubitus, the surgeon is able to apply precise traction and rotation when and where needed
- (2) Surgical assist team does not need to hold limb and can focus on other critical tasks
- (3) Used in shoulder arthroscopic & open shoulder surgeries, upper-limb trauma, and total shoulder arthroplasty.

**Ankle – single-handed precision positioning and traction** Ankle procedures often require



extensive traction to fully access the operating site. The ankle attachment and traction unit gives surgical teams single-handed precision positioning and traction control to streamline efforts and allow surgical staff to focus on core skills:

- (1) Assistarm® surgical positioner, qty:01
- (2) Assistarm arm support for shoulder (beach chair) , qty:01
- (3) Assistarm connector, qty:01
- (4) Assistarm traction unit, qty:01
- (5) Assistarm arm support for lateral decubitus, qty:01
- (6) Assistarm knee attachment, qty:01
- (7) Assistarm ankle attachment, qty:01
- (8) Assistarm sterile kit for shoulder and knee, qty:10
- (9) Assistarm sterile kit for ankle, qty:10

**Mosaicplasty set with all accessories**

- (1) Mosaic tubular chisel 3.5mm, qty:01
- (2) Mosaic tubular chisel 4.5mm, qty:01
- (3) Mosaic 6.5mm tubular chisel, qty:01
- (4) Mosaic 3.5mm harvesting tamp, qty:01
- (5) Mosaic 4.5mm harvesting tamp, qty:01
- (6) Mosaic 6.5mm harvesting tamp, qty:01
- (7) Mosaic 3.5mm chisel guard, qty:01
- (8) Mosaic 4.5mm chisel guard, qty:01
- (9) Mosaic 6.5mm chisel guard, qty:01
- (10) Mosaicplasty 3.5mm drill guide, qty:01
- (11) Mosaicplasty 4.5mm drill guide, qty:01
- (12) Mosaicplasty 6.5mm drill guide, qty:01
- (13) Mosaic 3.5mm delivery tamp, qty:01
- (14) Mosaic 4.5mm delivery tamp, qty:01
- (15) Mosaic 6.5mm delivery tamp, qty:01
- (16) Mosaic 3.5mm dilator, qty:01
- (17) Mosaic 4.5mm dilator, qty:01
- (18) Mosaic 6.5mm dilator, qty:01
- (19) Mosaic trephine 3.5mm, qty:01
- (20) Mosaic trephine 4.5mm, qty:01
- (21) Mosaicplasty trephine 6.5mm, qty:01
- (22) Mosaicplasty precision system, qty:01

17. **Standard Accessories.** Must be included: all items and accessories which are essential to operate the **Arthroscopy Instrument Set (Knee+Solder) with all Accessories** whether those are mentioned in the specification or not. A list of such items/accessories (if any) should be mentioned and price must be quoted separately:

18. **Local Training.** The supplier will arrange following training at BNS PATENGA free of cost:

- a. Operational Training: 02 x Operator for 01 week.
- b. Repair/Maintenance Training: 02 x EM Tech (01x Navy & 01x Civ) for 01 week.



19. **Publication.** Following brochure/catalogue in English language showing detailed particulars of the quoted items should be supplied along with the offer:
- Operation manual – 03 copies (1 x Original & 2 x Photocopies).
  - Repair/maintenance/service manual including detail circuit/schematic diagram-03 copies (1x Original & 2 Photocopies).
  - Parts Catalogue/Master Parts list – 03 copies (1x Original & 2 Photocopies).
20. **Spare Parts.** Adequate number of fast moving spare parts and other recommended spare parts required for 5 years operation are to be quoted indicating item wise price from which buyer will select as per requirement. The supplier should provide guarantee for supplying spare parts for a minimum period of 10 years.
21. **After Sales Service:** The supplier should have requisite after sales service facilities at home to render necessary services as and when required by BN. Necessary agreement will be signed if required. Details of workshop facilities of the supplier should be mentioned.
22. **Test, Trial and Acceptance:** The supplier will carry out free of cost installation, test and trial of the supplied machine in presence of the buyer's representative. The acceptance of the supplied items will be carried out by the buyer at BNS PATENGA where the supplier's representative may be present if they feel so. After the satisfactory test/trial, the acceptance certificate will be given by the CINS.
23. **Warranty/Guarantee:**
- The supplier must ensure that all items are new and unused. The supplier must provide warranty at least for 02 (two) years from the date of acceptance of the item(s) after satisfactory inspection, test, trial etc as applicable. If any defect/discrepancy of any item arises within the period of warranty, the specific period from the date of notification of the defect/ discrepancy to the supplier upto the date of rectification of defect/resolve of discrepancy will have to be deducted from the warranty period for that particular item(s).
  - If any defect/discrepancy arises, within warranty period, then the respective item(s) is/are to be replaced free of cost including freight within 03 (three) months from the date of notification of the same to the supplier. In this regard, the supplier must furnish an undertaking with the offer by stating, "I do hereby assure that we take the liability to replace all spare parts/item(s) free of cost including freight within three months from the date of notification about the defect/discrepancy of the spare parts/item(s) by the buyer, if it occurs within the period of warranty".
24. **Delivery:** The supplied items are to be delivered within 03 (three) months from the date of signing contract to the Commanding Officer, NSD, Chittagong.
25. **Validity of Offer:** Up to 30 Jun 2023.
26. **Certificate/Document of Authentication:** The local supplier must provide following original certificate(s)/document(s) with the offer/quotation to ascertain the genuinity of source and item(s) in order to establish chain of links from the original source of supply items:
- One certificate/document by the manufacture in favour of the supplier (in case of manufacture as direct source (Original)
  - FDA/CE/JIS must be submitted
27. **Users List:** List of user in Bangladesh along with user's certificate of the quoted machine is to be provided along with the offer.
28. **Terms of Payment:** 100% payment will be made after satisfactory test, trial and acceptance by BN in local currency.
29. **Condition for Acceptance of Quotation:** Quotation has to have supporting documents (booklets, leaflet, catalogue, brochure etc) having detailed particulars of the offered **Arthroscopy Instrument Set (Knee+Solder) with all Accessories** The quotation will not be accepted if detailed



RESTRICTED

information regarding specifications, maker's books and catalogue about the same model of the machine quoted, list of spare parts and accessories, etc are not provided.

30. **Compliance statement.** A compliance statement fulfilling all requirements of the tender is to be submitted for evaluation of the quotations, Stating mere 'Yes' or 'No' will not suffice and detailed description/ information's as required are to be given. An in-compliance statement may attribute to cancellation of the offer. If any clause of this specification does not commensurate with the offered item, the deviation has to be spelt out clearly.

*Balim*  
A H M HABIBUR RAHMAN  
Surg Cdr BN  
DDMS (Navy)  
Dt.

*[Signature]*  
DNT (Rep)  
SAZEEB JAMADDER  
Lt Commander BN  
Staff Officer (Trg-II)  
Naval Headquarters  
Banani, Dhaka-1213

*[Signature]*  
DNO (Rep)  
Member  
MOTAHER HOSSAIN  
Lt Commander BN  
Staff Officer (Ops Plan)  
Naval Headquarters  
Banani, Dhaka-1213

*Min*  
05.09.22  
DNIT (Rep)  
MD HABIBUR RAHMAN  
Lt Commander BN  
SQ (IT-ND) (Information & Technology)  
Naval Headquarters  
Banani, Dhaka-1213

*[Signature]*  
M ABUL KADER  
Captain BN  
Director Technical Stores  
Naval Headquarters  
Banani, Dhaka-1213  
Dt. 05-09-22

*[Signature]*  
AHMED RAFI  
Surgeon  
DMS (Navy)  
Naval Headquarters  
Banani, Dhaka-1213

*[Signature]*  
President  
MD ZOHUR UDDIN  
Commodore BN  
Director of Naval Stores  
Naval Headquarters  
Banani, Dhaka-1213