



## Notice Inviting e-Tender

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Procurement of battery operated drilling, reaming & saw system for the dept. of Orthopedic, R.  
G. Kar Medical College & Hospital  
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-224/2025

Dated-21.03.2025

The following amendment has been made in the tender document,

### Amendment – 1

## REVISED TECHNICAL SPECIFICATION

### Battery Powered power Tool set for Orthopaedic Department

#### Drill and Reamer Hand Piece:

- Selection of Drilling and Reaming with Automatic/ built in Switch option DRILL/REAM in same hand piece
- Selection of the Drilling and reaming with the same/ dedicated attachment
- Should have dual trigger for forward / reverse and oscillation mode
- Maximum speed of 12000 rpm in drilling, and not less than 270 RPM in reaming
- Should have variable speed control on the hand piece.
- Should deliver minimum torque of 155 in/lbs
- Drill torque should be minimum of 30 in/lbs
- Should have DC brush less motor for low maintenance
- No lubrication require for lifetime
- With appropriate adaptors for drilling. Reaming and pin placement and wire placement
- Microprocessor controlled Hand piece Can be calibrate for the consistence performance
- Weight of hand piece with battery should be not more than 3.5 lbs

- Fully Cannulate 4.0mm hand piece
- Tool less 360 degree attachments insertion
- Should be autoclavable
- Dedicated Forward and Reverses switch with safe mode should be there in hand piece
- Can be calibrating for the consistence performance if required
- Should have high water ingress protection rating **minimum of IPX 6 or higher**
- Hand piece weight **(without battery)** should not be **more than 1.3 kgs**

### Sagital saw Hand piece

- Should have two speed/ **variable controls** with standard and fast mode free speed of 10000-12000 cycles per minute
- Should have V-Notch blade mount/ **lock mechanism** for cutting blade for better grip and easy maintenance
- Micro processor controlled hand piece can be calibrate for the consistence performance
- Saw Noise level should not be more than 84 db
- Weight of hand piece with battery should be not more than 3.5 lbs
- Blade mount should be adjustable to different angles the 360 degree rotation
- Should have tool less mounting of accessories
- Should have DC brush less motor for low maintenance
- No lubrication required for lifetime
- Should be autoclavable
- Should have safe mode for safety on hand piece
- Blade arc of excursion should be minimum 5 degree
- Should have high water ingress protection rating **minimum of IPX 6 or higher**
- Hand piece weight **(without battery)** should not be **more than 1.3 kgs**

### Reciprocating/Sternum Saw Hand Piece:

- Should have Safe Mode for safety on hand piece
- Same hand piece can be used for sternum application with appropriate accessories
- Should have minimum **speed of 12500 CPM** and it should be control **from 0-12500** with trigger control
- Micro processor controlled Hand piece can be calibrate for the consistence performance
- Should have DC brush 1000 motor for low maintenance
- No lubrication required for lifetime
- Should have pistol grip Hand piece
- Should have tool less mounting of accessories for all blades or attachments
- Saw noise level should not more than 84db
- Should be autoclavable
- With different blades it should have maximum speed of 13000 CPM
- Should have high water ingress protection rating **minimum of IPX 6 or higher**
- Hand piece weight **(without battery)** should not be **more than 1.3 kgs**

### Drill and reaming Attachments:

- ¼ inch Jacobs Drill Attachment with key
- **Key/Keyless** Chuck with **single/double lock**

- Quick connect attachment for hip reaming
- Hudson Modified Trinkle attachment
- Pin Collet Attachment with range of 2 to 3.2 mm with various control
- K Wire collet attachment with range of 0.8 to 2.0 mm with various control

#### **Battery Charger:**

- 220-240 volts charger and should have the feature to count the charging cycle for a particular battery
- Should have capability to identify the worn out battery
- Should have to charge four batteries at a time without any module or modification need
- Should have an indicator to provide battery status for charging
- Should have reconditioning features for battery for Ni cd battery
- Should be able to charge different batteries with same charger

#### **Battery Kit:**

- Li-ion Cell chemistry and also compatible with Ni Mh & Ni Cd batteries with low internal impedance to deliver higher current than other battery types
- Should be 9.9 or more volts with capacity of 1.5 or more Ah
- Current should be minimum 9.9 or more volts and capacity should be minimum 1500 or more mAh
- Weight should be not more than 0.9 lbs
- Li-ion cell with capacity to produce more torque and non autoclavable with life of 300 approximate & average charging cycles.
- Should have a run time of minimum 15 minutes
- No need of reconditioned with no memory effect
- Should have indicator light to inform user of low battery life
- Should have capability to regulates Voltage Prevents battery energy level from being drained below a safety threshold where cells could potentially be damaged
- Should have capability to safety features like Shuts off current to battery terminals when hand piece is not connected
- Number of batteries 4
- Number of blades 30

#### **Certification:**

- The bidder should submit valid CDSCO Certificate/Registration/License for both the manufacturer(s) and importer(s) as applicable.

#### **Service & Support:**

- The company must having their service center in India and the regional service support
- The company must have repair capability in India
- The company must provide a loaner support in case equipment is under warranty or under CMC
- Company has to provide training & education for equipment handling to all CSSD
- Bio medical & OT staff
- Company must have to do minimum two times preventive maintenance in one year with company trained engineer.