

Technical Specification for Monopolar and Bipolar Generator for Neurosurgery.

- 1.0 Should have QMR high frequency spectrum should be 4-8-12-16Mhz,
- 2.0 Should have 4 Megahertz for all function, including bipolar.
- 3.0 Should have both Mono and Bipolar facility.
- 4.0 Monopolar CUT should have 120W, bipolar blend coagulation should have 130W and Bipolar CUT should have 120W.
- 5.0 Should have European CE and USFDA Certificate.
- 6.0 Should have very low temperature (around 65°C with proven Clinical paper)
- 7.0 Should have reduced lateral heat on surrounding tissues.
- 8.0 Should not have irrigation.
- 9.0 Should not carbonize tissue.
- 10.0 Should have bipolar non stick forceps.
- 11.0 Should have Single shaft transphenoidal probe.
- 12.0 Should have tissue dissection and J-Hook for dura cutting.
- 13.0 Should attach Proprietary certificate if the product is proprietary product.
- 14.0 Should have Monopolar instrument for skin incision.
- 15.0 Should have J-Hook for dura cutting with tissue dissection.
- 16.0 Should have double pneumatic non-skid pedal.
- 17.0 Should be able to perform both for Brain tumor and Spine surgery.

Accessories

- a) Micro Instrument
 - 0.25mm -2 nos (L 165mm, T 0.25 mm)
 - 0.40 mm -- 2 nos (L 165mm, T 0.40 mm)
- b) Regular Instrument
 - 1.0 mm - 3 nos (L 180mm, T-1.00mm)
- c) Disposable Patient Plates – 500 nos

*modified specifications
SM
7/12/15
for the SM unit*

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TENDER SPECIFICATION FOR NEURO DRILL OF NEUROSURGERY

1. Should have the provision to mount the console on Various sizes of IV Poles
2. Should be able to connect multiple hand pieces at a time like Neuro Drills (Up to 75000 RPM)
3. Should have large touch screen monitor
4. Should have inbuilt pump each for irrigation (5cc/min) and cooling
5. Console should recognize the various hand pieces and automatically adjust the settings accordingly.
6. The various parameters should be able to adjust either from touch screen panel or from the multifunction foot switch
7. Should have multifunction ergonomically designed foot control with light emission for easy identification
8. Surgeon should be able to control from the foot control itself the speed /mode, Forward / reverse toggle active hand piece change etc
9. Should have in built user friendly interactive menu and illustrative help guide
10. Cranial,Spine,applications should be possible from a single electrical console

Drill :

- 1.Speed should be variable from 50,000 to 75,000 rpm
2. Should have detachable cable to connect to console.
3. Weight of the drill should not be more then 180 gms and length should be less then 9.02 cm with a diameter exceeding 2.03 cm
4. Should be ergonomically designed electrical Drill system with torque upto 41 mN-m and power upto 138W
- 5.No Lubrication or seal should be required to run the motor.
- 6.Should have quick release and lock system for tools and attachments.
- 7.Should be suitable for cranial,skull base,Neuro otology applications
- 8.Should have multifunction ergonomically designed foot control.
- 9.Should be able to connect multiple hand pieces at time like neuro drills (upto to 75000 RMP)

Attachments and accessories:

- 1.Telescope tube of 12 cm curve should be provided.
- 2.It should have transnasal burs for doing skull base surgery.
- 3.Small attachments of size Attachments of sizes 4cm, 7cm, 10cm and 13cm should be provided.
4. Straight, angled of small and large attachments, telescopic tubes .
5. Craniotome 2 nos attachment should be provided.
6. Should have Diamond Coerce tip design.
- 7 Burr a) Regular -50 Nos
b) Diamond – 20 Nos
- 8.Hole maker - 30 Nos
- 9.Craniotome blade (Cutter)-50 Nos

Modified Specification

[Signature]
7.12.18

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