

**All-India Institute of Medical Sciences**  
**Ansari Nagar, New Delhi-29.**  
**(RESEARCH SECTION)**

Ref. No.22/Stores/NMR/SSK/2014-15/RS

Dated: 27.02.2015

**Subject:** Purchase of TMS coil, an accessory with TMS equipment, for small animal experiments (rat model), for the Department of N.M.R., at AIIMS, New Delhi-29 on proprietary basis- **Inviting comments thereon.**

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The request has been received from Dr. S. Senthil Kumaran, Deptt. of NMR, AIIMS to purchase the subject item from M/s Magstim, Company Ltd. U.K. on proprietary basis. The proposal submitted by M/s Hospimedica International ltd. and PAC certifications are attached.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within issue of 15 days giving reference **No. 22/Stores/NMR/SSK/2014-15/RS**. The comments should be received by office of Stores Officer (RS), Research Section at AIIMS on or before **16/03/2015 upto 12:30 p.m.**, failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

**STORES OFFICER (RS)**

**Encl: Related documents enclosed.**

- 1. PAC Certificate enclosed.**
- 2. Specification of equipment.**

**Computer facility: with request for uploading the same in AIIMS websites for the period of 15 days.**

**[Contentprovider.aiims@gmail.com](mailto:Contentprovider.aiims@gmail.com)**

**Specifications for the procurement of TMS coil TMS coil, an accessory with TMS equipment, for small animal experiments (rat model)**

**Transcranial Magnetic Stimulation coil (one quantity) along with coil adapter for use with existing TMS equipment with following specifications:**

1. Dimensions should be Small Double 25mm Coil with 25mm diameter for use with rats.
2. Should be compatible with existing Human TMS Magstim equipment (Rapid<sup>2</sup> plus Model No P/N 03- EN/01, The Magstim Company Ltd, SA34 0HR, UK) in Department of Neurology, AIIMS.
3. Should have Average inductance of 10.11 $\mu$ H (approximately).
4. Should be compatible with stimulation pulse frequency 1Hz to 100Hz.
5. Should have a maximum magnetic field strength of 4.0 T.
6. Should be able to achieve 40 stimulations at 100% power at an ambient temperature of 20°C, without exceeding the permitted operating temperature of the coil.
7. Should withstand Volts/Div = 50 $\mu$ V to 30mV.
8. Withstand Power levels of 1% till 100% (of the stimulator mentioned above) without cooling.
9. Compatible with the following settings in Magstim human instrument
  - a. Power 0 - 100% at a resolution of 1%.
  - b. Frequency 1 - 100 Hz at a resolution of 1Hz.
  - c. Single pulse (MEP), repetitive mode and session mode
  - d. Duration 0.1 - 10.0 seconds at a resolution of 0.1 seconds.
  - e. Number of pulses 1 – 1000 at a resolution of 1.
  - f. Wait time 1.0 – 60.0 seconds at a resolution of 0.1 seconds.
  - g. User defined stimulus intensity (100% motor threshold, MT), should also withstand 110% MT (Enhanced MT)
  - h. Compatible with number of pulses 1 to 1000
  - i. Compatible with pulse trains between 1 and 250 runs in steps of 1 run
  - j. Compatible with filter settings 2Hz to 10 kHz
  - k. Compatible with number of bursts 1 and 500 in increments of 1
  - l. Number of stimulations at 100% power = 40 bursts
10. Coil should be of light weight (less than 1.5 kg).
11. **Coil should be supplied with cable (minimum 2 m), Coil Adapter**, necessary interface and software for making the coil compatible with TMS Magstim stimulator (model as above in item 2).
12. The vendor should integrate the coil with the existing simulator system (as mentioned above) and demonstrate the coil.

**magstim**

PIONEERS IN NERVE STIMULATION AND MONITORING

Spring Gardens • Whitland  
Carmarthenshire • Wales • UK  
SA34 0HR

Dated : 26<sup>th</sup> February, 2015

**PROPRIETARY ARTICLE CERTIFICATE**

**TO WHOM IT MAY CONCERN**

This is to certify that the **Repetitive Rate Transcranial Magnetic Stimulator Model Magstim Super Rapid<sup>2</sup> Plus 1, Accessories & Consumables** is a proprietary Product of **M/s Magstim Company Ltd., UK,**

No other manufacturer till date can supply similar product specification for your requirement

For and on behalf of **M/s Magstim Company Limited, UK**



**Robin Davies**  
**Managing Director**  
**The Magstim Company Ltd. UK**  
Spring Gardens, Whitland, Carmarthenshire. SA34 0HR  
Wales. United Kingdom



**Registered Office:**  
Spring Gardens, Whitland, Carmarthenshire, SA34 0HR, U.K.  
Tel: +44 1994 240798, Fax: +44 1994 240061

**Registered in Cardiff**  
No. 2308367