

**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY****MATERIALS MANAGEMENT DIVISION****Powai, Mumbai 400076.**

Ref No.(PR No.) 1000052965

Rfx No. 6100002960

**Technical Specifications : Spinner Magnetometer (Qty : 01 )**

<b>Sr. No</b>	<b>Item Description</b>	<b>Detailed Technical Specification</b>	<b>Technical Compliance (Yes / No)</b>	<b>Additional Information ( if any )</b>
1	Spinner Magnetometer	<p><b>Spinner Magnetometer (Qty : 01)</b></p> <p>The spinner magnetometer should be able to measure the remanent magnetization of rock specimens in a wide dynamic range. System should consist of the following sub assemblies/components to provide quick, sensitive, low-noise measurements on 10-cm<sup>3</sup> specimens.</p> <ul style="list-style-type: none"><li>• A <math>\mu</math>-metal shield housing sample and fluxgate sensor</li><li>• A lock-in amplifier</li><li>• A solid stand containing a vibration-reduced motor suspension and electronics</li><li>• A sample holder for standard 1-inch diameter cylindrical rock specimens</li><li>• A graphical software package for Windows OS along with a compatible PC</li></ul> <p><b>Specifications:</b></p> <ul style="list-style-type: none"><li>• Sensitivity: approx. <math>10^{-9}</math> Am<sup>2</sup> (0.1 mA/m for a 10-cm<sup>3</sup> sample)</li><li>• Dynamic Range: up to 100,000 A/m</li><li>• Spin Frequency: 10 Hz</li><li>• Measuring time: 32, 64, 128 or 256 spins</li><li>• Total weight: &lt; 10 kg</li></ul>		
2	Warranty of the system	1 year		