



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

MATERIALS MANAGEMENT DIVISION

Powai, Mumbai 400076.

Ref No.(PR No.) 1000040974

(Rfx No. 6100001909)

**Technical Specifications : In Shoe Plantar Pressure Measurement System (Qty : 1 )**

Sr. No	Item Description	Technical Compliance (Yes / No)	Additional Information (If any)
1	<p><b>In shoe plantar pressure measurement system ( Qty – 1 Nos )</b></p> <p>The Software should comprehensive, user friendly and include the following :</p> <ol style="list-style-type: none"><li>1. Pressure and Force Data display</li><li>2. Centre of Force display</li><li>3. Timing Parameters – Cadence, Step Time, Stride Time, Stance time, Swing Time</li><li>4. Automatic 3-Box segmentation of foot in software with Peak Pressure Reports</li><li>5. Automatic Report generated in Microsoft Word</li><li>6. Multiple reporting formats including ASCII, graphs and Charts with relevant analysis information</li><li>7. Ability to Export data to ASCII</li><li>8. Ability to import /Export Movie files</li><li>9. Foot segmentation, Force versus Time curves, Pressure versus Time curves, Peak Pressure versus Time curves, Center of Force (CoF) Trajectory</li><li>10. Side by side comparison for pre and post recordings.</li><li>11. Patient Database with ability to store and retrieve patient data with easy search options</li></ol>		

	12. Should be compatible with Windows 10 and 64-bit Operating System		
2	<p><b>SENSORS</b></p> <ol style="list-style-type: none"> <li>1. The sensors that are inserted into the shoes should be ultra-thin not more than 0.3 mm in thickness (0.229 mm or 0.009 in.). This ensures that there is no reduction in the volume of space for the subjects foot and hence no discomfort.</li> <li>2. There should be a minimum of 64 sensels in each reusable sensor to measure real time pressure distributions.</li> <li>3. The Pressure range should be upto 125 psi (862 kPa)</li> <li>4. Scanning speeds should be between 100 Hz and 150 Hz</li> <li>5. Bluetooth connectivity range should be upto 10m (30 ft)</li> <li>6. The system should be completely cord free to ensure natural Gait</li> <li>7. The sensors should be Pre-sized with sizes ranging from the smallest 5.5 Women's size to 12.5 Men's size</li> <li>8. The sensors should be reusable for reasonable number of times based on the usage.</li> <li>9. Sensors should be easily available for replacement of worn sensors.</li> </ol> <p>The entire set up should be plug and play requiring not more than 3 minutes to begin data</p> <p><b>-10 pairs of foll size:</b>  3020-125 sensor -2 pairs  3022-125 sensor -2 pairs  3024-125 sensor -2 pairs  3026-125 sensor -2 pairs  3028-125 sensor -2 pairs</p>		
3	Warranty of the system - 1 Year		