**NIT for purchase of Thermal conductivity meter**

Quotations under sealed cover are invited by the undersigned for supply and installation of Thermal conductivity meter with accessorieswith the following technical specifications under the DBT Biotech hub programme:

* Instationary heat wire resistance measurement in accordance with ASTM D7896.
* Thermal conductivity - 10 to 2.000 mW/mK.
* Accuracy - +/- 2 %
* Reproducibility +/- 1%
* Repeatability +/- 0.5%
* Temperature range -30°C to 400oC
* Temperature sensor PT100 +/- 0.1oC
* Specific heat (computed) 0.1 to 1 cal/goC
* Measuring time approx. 30s
* Digital interface: RS232
* Analog interface: 4...20mA (thermal conductivity)
* 4...20mA (temperature)
* Controller interface : 0----1 volt(→ heating unit)
* Appropriate Interface cable and PC with appropriate analytical software for operating the system and data analysis

Sensor Unit: SS, with PT heat wire element, having upto dimensions of **(**32x 70 mm) designed to be screwed into measuring chamber, Temperature sensor PT100 +/- 0.1o C with range from -30°C to 400oC and Viscosity range: 0.1 to 100,000 mPas, 10-30 ml sample volume with appropriate sensor cable,

Measuring chamber: SS, 36mm x 70 mm (L1)x105 mm (L2) with temperature range from -30°C to 170oC and pressure range from 0 to 35 bar

The quotations should reach the office of the undersigned within 15 days from the date of issue of the NIT.

April 6, 2018 Prof. N. K. Chrungoo

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