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

PR NO.1000044161 **RFx No.6100002473**

Technical Specifications for Isothermal Calorimeter

Sr. No.	Tender Specifications	Compliance (Yes/No)	Additional Information
1.	**I-Cal Ultra isothermal calorimeter for 20 ml samples** a) The calorimeter must be an isothermal conduction calorimeter b) The temperature must be computer controlled from the software c) The Operating Temperature range must be 3 °C to 90 °C or better d) The temperature stability must be +/- 0.005 °C or better in a research laboratory setting e) The calorimeter must be comprised of a thermostat and separate calorimeter cells, with each cell having its own heat sink in order to minimize cross-talk. f) The thermostat must allow for the following calorimeter cell configurations:o between 1 to 8 individual and autonomous calorimeter cells (defined by user) for 20 ml sample vials, for simultaneous measurements in the same experiment g) The user should have the ability to extract a single cell for maintenance without affecting the rest of the calorimeter, so that the calorimeter can continue to be used with all other cells. h) The precision in normal laboratory conditions with 20 ml vials must be at least +/- 2 µW i) The baseline drift over 24 hours with 20 ml vials must be less than 5 µW, with a deviation of less than 1 µW j) 20 ml calorimeters must be compatible with an internal mixing device that imparts a rotatory **and** vibratory movement to the sample to be mixed k) Admixture ampoule / internal mixer must apply a vibratory movement to the sample during mixing		
2.	Warranty: 1-year on-site warranty from the date of installation and acceptance		