

INDIAN INSTITUTE OF TECHNOLOGY JODHPUR

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Corrigendum

Date: September 24, 2014

Tender for Supply & Installation of the Isothermal Titration Calorimetry
NIT No.: IITJ/SPS/BISS/1/1(I)/2014-15/41

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ANNEXURE – I

Item: Isothermal Titration Calorimetry: Qty.: 01 No.

SPECIFICATIONS:

Low Volume sample

The system with the calorimeter insert assembly, electronics chassis, plus data acquisition and interface hardware,

Must include a high- end computer with CD-ROM drives at at least Core i7 processor,

All necessary operating and analysis software should be included,

Fixed-in-place sample and reference cells (sample volume within 150-200 μ L).

The standard operating temperature is 4 to 80 °C.

A complete operating accessory kit, Injection syringe, cleaning tool with at least 1L side arm vacuum flask.

Complete Degassing Station (220-240V):

Two set of spare Titration Syringe with Needle for low volume ITC.

Appropriate UPS unit compatible with the ITC instrument.

Now read as:

Specifications

1. Operating range of the instrument should be between 2 to 80 °C with highly efficient thermal conducting and chemically inert cell material.
2. Peltier controlled or solid-state thermoelectric system for rapid and precise temperature equilibration.
3. Sample and Reference cells should be enclosed in a semi adiabatic chamber
4. Minimum detectable heat should be 0.1 μ J or less.

6. Lower active sample cell volume (between 150-250 micro liter) is preferred because of the smallest sample volume requirement. The response time of the instrument should be less than 20 seconds.
7. Stir speed should be user selectable and should be optimized for the sample cell. Any stirring rate can be selected for each titration and should be capable of at least 300 rpm.
8. Accessory should include for the degassing samples and should be configured to facilitate sample cell cleaning.
9. The ITC instrument should have a good and low baseline stability.
10. Titration syringe should be capable of delivering 40-50 μL and with as low as 0.10 μl injection volumes.
11. Easy to operate software and should include experiment design wizards.
12. System should be offered with degassing assembly.
13. System should be offered with standard test kits.
14. System installation and two days training is compulsory for the instruments
15. Instrument should have 4 years warranty.

OPTIONAL ACCESSARIES

- 1- All necessary operating and analysis software should be included.
- 2- Additional set of Injection syringe.
- 3- Addition supply of injection pipette assembly
- 4- Complete Degassing Station (220-240V)
- 5- Additional set of spare Titration Syringe and burette
- 6- UPS unit compatible with the ITC instrument.
- 7- High-end computer preferably a laptop compatible with the instrument.

Other Terms & Conditions will remain same.
