

## Corrigendum

With reference to Bid Reference No. e-Proc/DEANRES\_05122018/ TGDSC\_IEST/236 dated 5<sup>th</sup> December 2018; the following corrections are included in the tender specification of **True Simultaneous TG-DSC Analyser with Curie Temperature Measurement Setup**.

### Modifications / Corrections in Technical Specifications:

Specification as stated in original bid document		Changed or modified new specification
Furnace	<p>Temperature Range: From Room temperature to 1000°C or higher with Furnace Temperature precision: 0.5 °C or better.</p> <p>Temperature resolution 0.001 °C or better</p> <p>Metal furnace with motorized furnace hoist, air cooled, and provision to have cooling facility through liquid nitrogen is preferable.</p>	<p>Temperature Range: From Room temperature to <b>1500°C</b> or higher with Furnace Temperature precision: <b>1 °C</b> or better.</p> <p>Temperature resolution 0.001 °C or better</p> <p><b>Metal/ ceramic</b> furnace with motorized furnace hoist, <b>with automatic furnace lifting facilities</b>, air/chiller cooled.</p>
Temperature scanning rate (for both heating and cooling)	0.01 to 50 °C/min for complete temperature range.	<b>0.1</b> to 50 °C/min for complete temperature range.
DSC Features	<p>DSC sensor, Temperature accuracy : 0.2 °C or better</p> <p>DSC measuring range: ± 500mW</p> <p>DSC resolution: 0.25 µW</p> <p>DSC sensitivity : 5 µV/mW with Indium melting</p> <p>Time constant : 20 sec or less</p> <p>Enthalpy accuracy : 1 to 3 %</p> <p>Enthalpy precision : +/- 0.5%</p>	<p>DSC sensor, Temperature accuracy : 0.2 °C or better</p> <p>DSC resolution: 0.25 µW</p> <p>DSC sensitivity : 5 µV/mW with Indium melting</p> <p>Time constant : 20 sec or less</p> <p>Enthalpy accuracy : 1 to 3 %</p> <p>Enthalpy precision : +/- 0.5%</p>
Crucibles for TG DSC	<p>Platinum crucible – 10 Nos, with lids</p> <p>Alumina crucible – 20 nos, with lids</p>	<p>Platinum crucible – 8 Nos, <b>with 4 Nos. lids</b></p> <p>Alumina crucible – 20 nos, <b>with 10 Nos. lids</b></p>
Other items	<p>Printed User's instructions manual in English.</p> <p>The system should include all other essential accessories for operation. For example, compatible PC for operating the equipment: not below Intel core i3 7th Gen processor; 1TB HDD SATA; 4GB RAM DDR4; Optical Drive; USB key board mouse bundle; 19.5" monitor or better ; Color LaserJet Printer.</p> <p>6 kVA online UPS, Nitrogen or Argon gas filled cylinders with Two stage SS regulator should be quoted/included if needed to run the system.</p> <p><b>Quoted model should have provision for future up-gradation possibilities.</b></p>	<p>Printed User's instructions manual in English.</p> <p>The system should include all other essential accessories for operation. For example, compatible PC for operating the equipment: not below Intel core i3 7th Gen processor; 1TB HDD SATA; 4GB RAM DDR4; Optical Drive; USB key board mouse bundle; 19.5" monitor or better ; Color LaserJet Printer.</p> <p>6 kVA online UPS with <b>atleast 30 min backup</b>, UHP Nitrogen or Argon gas filled cylinders with Two stage SS regulator should be quoted/included if needed to run the system <b>and anti-vibration table for the system.</b></p> <p><b>Quoted model should have provision for future up-gradation possibilities.</b></p>
Warranty	1 year standard warranty by manufacturer with additional 2 year warranty should be also quoted separately.	<b>1 year standard warranty by manufacturer.</b>

**NB: The custom duty exemption certificate (DSIR) applicable for academic institution will be provide by the Institute for foreign purchase.**

 10/12/18

Dr. Amitava Basu Mallick  
 PI of the Project, Professor, Metallurgy and Materials Engineering Department  
 IEST, Shibpur