

Corrigendum 1

Tender Ref. No: GT9/ABHI/2023/10/CRYOSTATMET

Tender Name: Cryostat Magneto-Electrical Transport

Reason for Corrigendum: Amendment in Technical Specification

This corrigendum document should be read with the main tender document annexure 1. The points mentioned below in this document replace the corresponding points in the annexure 1.

S.NO	Technical Specifications	Complied / Not Complied	Reference Page No
2.2	(iii) should be read as: The VTI should be fitted with 40-pin or higher chip carrier sample holder with ESD protection.		
	(viii) should be read as: The cool down time of the sample probe from 300 to 5 K (or lower) should be 120 min or better in the absence of magnetic field.		
	(xiii) should be read as: The control electronics for temperature, needle valve position, etc., should have the options for USB or TCP/IP and GPIB 4888 interface		
2.3	Top loading variable temperature insert with sample rotation (VTI-SR).		
	(i) should be read as: The VTI-SR should have a LCC40 or higher chip carrier. It should allow rotation of the sample about a horizontal axis over the angular range of 0 to 180° or 0 to 360° such that the sample is always under the uniform magnetic field.		
2.4	³He Variable temperature sorption insert (3H-VTSI)		
	(vi) should be read as: The 3H-VTSI should allow rotation of the sample about a horizontal axis over the angular range of 0 to 90° or higher such that the sample is always under the uniform magnetic field. Sample rotation should be done using stepper motor and associated controller. Angular resolution should be 0.5 degree or better. It must have the necessary protection mechanism from being rotated beyond the specified angular ranges.		
	(vii) should be read as: A 40 pin or higher chip carrier with ESD protection should be provided for operation from 300 mK to 300 K and under magnetic fields ± 14 T.		
	(viii) should be read as: One 24 pin Fischer connectors should be provided to couple the electrical leads outside the 3H-VTSI. Additionally a separate suitable Fischer connector(s) should be provided for taking the electrical leads for heater and temperature sensor. All Fischer connectors must be hermetically sealed type. A minimum of 22 twisted pairs of resistive wiring should be provided with one end wired to the chip carrier sample holder and the other end soldered at the 24-pin Fisher connector.		
	(xi) new point in 2.4 System should be supplied with at least 12 or higher number of suitable LCCs compatible to work with 1.6K and 300mK normal and rotational probes.		
2.5	Magnet and magnet power supply		

	<p>(ii) should be read as: The magnet power supply should be capable of 4-quadrant operation. It should have 20-bit resolution and the field stability in constant current mode should be less than 20 ppm/K.</p>		
	<p>(iii) should be read as: The magnet power supply should be capable of continuous field sweep from 0 to ± 14 T and also field sweep in the form of loop like -14 T to +14 T and back to -14 T. It should also have the option to produce ultra-low fields (20 - 30 mT) with a resolution of 10 μT.</p>		
	<p>(iv) should be read as: Magnet power supply should have minimum and maximum sweep rates as 0.5Oe/sec. and 110 Oe/sec. respectively. Magnet power supply should have the option to ramp the current in the manual and remote (software control) mode.</p>		
2.11	<p>(iv) should be read as: Additional Heater wires and calibrated cernox temperature sensors, and twisted resistive wires (20 meter or long) suitable for the temperature and magnetic field ranges mentioned in this tender document should be provided.</p>		