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Notification for Inviting proprietary purchase Dated: 31.08.2026

NII is planning the procurement of the following item through proprietary mode.

Name of the item: Cryoplatform for the Avance NEO 700 MHz NMR Spectrometer

Make: - Bruker

Model: - Cryoplatform (CU5)

Any other firm with item meeting the below mentioned specification may contact to equipment@nii.ac.in latest by 15-09-2026 at 10 A.M or send the quotation in two bid system

(technical and price separately)

Specifications for a Cryoplatform for the Avance NEO 700 MHz NMR Spectrometer

1. Scope of Supply

The bidder shall supply, install, test, and commission a complete CryoPlatform system designed for operation with an installed 700 MHz NMR spectrometer equipped with a NEO Console. The offered system shall be fully compatible with the existing Triple Channel Helium CryoProbe and shall provide continuous cryogenic cooling without requiring replacement of the currently installed probe.

2. System Compatibility Requirements

The proposed CryoPlatform shall:

a. Be compatible with an existing 700 MHz NMR spectrometer.
b. Be fully compatible with the installed Bruker NEO Console.
c. Support the operation of the existing Triple Channel Helium CryoProbe.
d. Provide closed-loop helium recondensing and cooling for the CryoProbe.
e. Integrate seamlessly with the existing NMR infrastructure without affecting spectrometer performance specifications.
f. Include all interface hardware, cabling, mounting accessories, and software components required for complete functionality.

3. Base System Configuration – CryoPlatform (Air-Cooled)

3.1 Core Components

The system shall comprise a CU-based Helium CryoPlatform including:

a. Latest Genration of Cryo Cooling Unit
b. Air-cooled indoor Helium compressor.
c. 6-meter indoor Helium flexline set with acoustic/sound insulation.
d. Transfer line support system for absorption and minimization of mechanical vibrations.
e. Probe mounting and support system compatible with the existing Triple Channel CryoProbe.
f. Helium gas bottle adapter with 10-meter flexible connection hose.
g. All necessary fittings, connectors, support brackets, and interconnecting hardware.

3.2 Functional Requirements

The CryoPlatform shall:

a. Maintain cryogenic operating temperatures required by the installed Triple Channel CryoProbe.
b. Ensure stable long-term operation suitable for high-resolution NMR applications.
c. Minimize vibration transfer to the magnet and probe assembly.
d. Provide automatic monitoring and protection of cooling parameters.
e. Be suitable for indoor installation and continuous operation.

4. Installation, Commissioning and Acceptance

The supplier shall provide:

a. Delivery, installation and commissioning of the complete system.
b. Mechanical, electrical and cryogenic integration with the existing 700 MHz NMR spectrometer.
c. System performance check after commissioning.

5. Warranty and Service Support

Minimum 12 months comprehensive warranty from successful commissioning.

6. Compliance Statement

The offered CryoPlatform shall be:

a. A factory-tested, commercially proven system.
b. Fully compatible with the installed 700 MHz NMR spectrometer with NEO Console.
c. Fully compatible with the existing Triple Channel Helium CryoProbe.
d. The installation will be considered complete only after the existing cryoprobes have been tested on the cryoplatform.

Optional

Please provide the AMC and CMC costs for the cryo-platform for the next 3 years after the warranty expiry.