



Requisition Form

Requisition Number: 7038/25/0083

Last Date for Submission: 09/03/2026

S.N.	SQU Product Code	Description	Qty	UOM	Remarks
1	EQUMEACAL0002	DIFFERENTIAL SCANNING CALORIMETER	1	Nos	<p>Differential Scanning Calorimeter (DSC)</p> <p>Scope</p> <ul style="list-style-type: none"> Supply, installation, commissioning, and on-site training of one (1) Differential Scanning Calorimeter (DSC). System intended for polyethylene (PE) and petroleum product thermal analysis. <p>Target Applications</p> <ul style="list-style-type: none"> Determination of melting and crystallization temperatures and enthalpies of PE. Oxidative stability testing (OIT/OOT) of polymers and petroleum products. Thermal transitions of waxes and petroleum fractions. General thermal characterization of polymeric and hydrocarbon materials. <p>Technical Requirements</p> <ul style="list-style-type: none"> Temperature range: -120 °C to +550 °C (minimum acceptable lower limit: -90 °C). Temperature accuracy and repeatability: ± 0.1 °C or better. Programmable heating and controlled cooling rates. Integrated refrigerated cooling system. Compatible with liquid nitrogen cooling (upgradeable to -180 °C). Operation under inert gas atmosphere (e.g., nitrogen/argon) with gas control. Upgradeable to include: <ul style="list-style-type: none"> Autosampler. Enhanced cooling system. Provision for potential GC-MS coupling (if applicable). <p>Others</p> <ul style="list-style-type: none"> Delivery, installation, calibration, and commissioning included. On-site training for at least 3 users.

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					<ul style="list-style-type: none">• Operation, method development, data analysis, and routine maintenance included.