



**UNIVERSITY SCIENCE INSTRUMENTATION CENTRE**  
**BHARATHIDASAN UNIVERSITY**  
TIRUCHIRAPALLI- 620 024

**LASER FLASH ANALYSER -THERMAL DIFFUSIVITY & THERMAL  
CONDUCTIVITY MEASUREMENT- REQUISITION FORM**

**Date:**

<b>Name</b>	
<b>Designation</b>	
<b>Address for communication</b>	
<b>Mobile Number</b>	
<b>E-Mail</b>	
<b>Nature of applicant</b>	<input type="checkbox"/> Internal (BDU) <input type="checkbox"/> BDU- Affiliated <input type="checkbox"/> External Academic <input type="checkbox"/> Industry
<b>Number of samples</b>	
<b>Nature of samples</b>	
<b>Sample property</b>	<input type="checkbox"/> Conductive <input type="checkbox"/> Non-conductive <input type="checkbox"/> Polymer <input type="checkbox"/> Semiconductor    Others: _____
<b>Measurement Temperature Range</b>	From: _____ °C    To: _____ °C
<b>Diameter/ Size</b>	
<b>Thickness of samples</b>	
<b>Density at reference temperature</b>	
<b>Specific heat of samples</b>	
<b>Decomposition and Melting point of the samples</b>	

Payment Details			
Draft/URN No.	Name of the Bank	Date	Amount ₹ (Incl.-18% GST)
Declaration: <ul style="list-style-type: none"> <li>I hereby agreed to terms and conditions of the institution for analyzing my samples and the results obtained here will be properly acknowledged for this instrument &amp; facility without fail.</li> </ul>			
Signature of the applicant			

Forwarded by,

Signature of Research Supervisor  
(with seal)

**Note:** Submit a fresh CD/DVD along with this application form for data collection.

**Office use only**

Serial No.	: _____	Date of receipt of Sample	: _____
No. of Samples	: _____	Date of analysis (Tentative)	: _____
Date of completion	: _____		
			Technical Asst. Initial
Type of User	<input type="checkbox"/> Internal- BDU <input type="checkbox"/> BDU- Affiliated <input type="checkbox"/> External Academic <input type="checkbox"/> Industry		
Payment verification	: _____	Assistant Initial	
<b>Remarks:</b>  			

Recommended,

Signature of the Coordinator - USIC  
(Dr. B. KADALMANI)

## Instruction for users

### LASER FLASH ANALYSER -THERMAL DIFFUSIVITY & CONDUCTIVITY MEASUREMENT

- ☛ Duly filled Requisition form signed by their Research Supervisor and forwarded through Head of the Department/ Head of the Institution. The form should be submitted to the USIC Coordinator along with the samples.

#### ☛ **Sample requirements:**

1. Solids/ Thin films : 10 mm<sup>2</sup> in size for square & 10 mm diameter for round samples, with 1.5- 2.5 mm thickness.
2. Powders : Tightly packed pellets of 10 mm diameter with 1.5-2.5 mm thickness.
3. Liquid samples : ~ 2 ml

- ☛ Well-dried, clean solid samples will be accepted for the measurements.
- ☛ Explosive, poisonous samples and samples giving rise to toxic / obnoxious gases / fumes on heating **cannot be undertaken** for Analysis.
- ☛ Please provide the decomposition and melting point of the samples.
- ☛ Submit a fresh CD/DVD along with the application form for data collection.
- ☛ **No pen drive shall be entertained.**



Users are requested to acknowledge [USIC-BDU & DST-PURSE, Bharathidasan University](#) for the publication of the work. Acknowledged papers should be sent to this office by e-mail ([usic@bdu.ac.in](mailto:usic@bdu.ac.in)).

#### Note:

1. Submit a fresh CD/DVD along with the application form for data collection.
2. Payment details should be furnished.