

Inter University Instrumentation Centre Mahatma Gandhi University



GANDHIUM
विद्यया अमृतम३नुते

Name of the Applicant :							
Designation and institutional address :							
Phone No. & E-mail	:						
Description of Sample	:						
Nature of the compound	:	organic [inor	ganic	composite		
Presence of halogen	:	YES	NO)			
Sl Sample Name*	Sample Code (will be used as file name)*	TG A/DTA*	Temp. range*	Decomposition temp.*	Expected decomposition products (specify nitrates, oxides etc if any)*		
1					onices etc ii uny)		
2							
3							
4							
5							
*all fields are mandatory Title of Research work / project : Billing Address :							
 Terms and Conditions: The samples of thermal analysis should not contain any kinds of corrosive (halides, nitrates etc.) and explosive materials. If any damage occurs to the equipment, it will be the responsibility of the user to suitably compensate IUIC for the same. Potentially hazardous sample may not be accepted for analysis (<i>Tariff and instructions overleaf</i>) 							
I/We agree to the above terms and conditions.							
Date: Name/Signature of the applicant			Na	me/Signature	of the Supervisor		
For office Use							
Signature of Analyst : Due Date:			Per	mitted by:			

Tariff for Analytical Work

Sl	Thermal Analysis	Charges* (Rs)		
No.		MG University Campus users	For researchers outside the campus from educational institution	For Industries
1	TGA-DTA up to 700°C	400	1200	2500
2	TGA-DTA above 700°C	850	2400	4800
3	DSC RT to 1300°C	950	2500	4000

Instructions

- 1. *Charges applicable for heating rate 10-20 deg/min. Extra charges will be levied for slower rates.
- 2. About 25 mg of sample is required for analysis.
- 3. The samples may not be stored more than two weeks. Customers are requested to collect the samples in time. Any transit/handling charges should be borne by the user. We will not be responsible for any damage during transit.

Payment Details

- 1. The payment is accepted through Demand Draft.
- 2. For the analysis, Payments are to be made only money transfer to

Bank: State Bank of India

Branch: M. G. University Campus Branch

Account Name: Equipment Maintenance Fund (EMF-IUIC)

Account No: 67212747998 IFSC Code: SBIN0070669

Instrument Specifications (SDT Q600, TA instruments)#

System Design	Horizontal Balance & Furnace
Balance Design	Dual Beam (growth compensated)
Sample Capacity	200 mg (350 mg including sample holder)
Balance Sensitivity	0.1 µg
Furnace Type	Bifilar Wound
Temperature Range	Ambient to 1 500°C
Heating Rate - Ambient to 1 000°C	0.1 to 100°C/min
Heating Rate - Ambient to 1 500°C	0.1 to 25°C/min
Furnace Cooling	Forced Air (1 500 to 50°C in < 30 min,
	1 000°C in 50°C in < 20 min)
Thermocouples	Platinum/Platinum-Rhodium (Type R)
Temperature Calibration	Curie Point or Metal Standards (1 to 5 Points)
DTA Sensitivity	0.001°C
Calorimetric Accuracy/Precision	± 2% (based on metal standards)
Mass Flow Controller with Automatic Gas Switching	Included
Vacuum	to 7 Pa (0.05 torr)
Reactive Gas Capability	Included - separate gas tube
Dual Sample TGA	Included
Auto-Stepwise TGA	Included
Sample Pans	Platinum: 40 µL, 110 µL
	Alumina: 40 µL, 90 µL

#source: http://www.tainstruments.com/q600/