	Inte	er Un	iversity Instrumentation Centre Mahatma Gandhi University					
Ch Land	VAAuen weensoon		THERMAL A	NALYSIS F	REQUESITION		विद्यया अमृतम३नुते	
Name	of the Applicant		:					
Design	nation and institut	tional ad	ldress :					
Phone	No. & E-mail		:					
Descri	ption of Sample		:					
Natu	re of the compou	Ind	:	organic	inorg	anic	composite	
Prese	Presence of halogen		:	YES	NC	)		
Sl	Sample Name <sup>*</sup>	¢	Sample Code (will be used as file name)*	TGA/DTA/ DSC*	Temp. range*	Decompo- sition temp.*	Expected decompo- sition products (specify nitrates, oxides etc if any)*	
1								
2								
3								
4								
	elds are mandatory							
1. Ti ar 2. Pe (7	and Conditions: the samples of thermal by damage occurs to the otentially hazardous sa <i>Fariff and instructions</i> agree to the above	ne equipme ample may overleaf)	ent, it will be the r y not be accepted f	esponsibility of				
Date : Name/Signature of the applicant Name/Signature of the Superv						of the Supervisor		
	For office Use							
Signatu Due Da	re of Analyst : ite:				Per	rmitted 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,
	1000°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/