TENSIOMETER

Photo of Instrument:							
Instrument Name	TENSIOMETER						
Instrument Model & Serial No.							
Instrument Make	Surface Tenser Analyser- SEO, Korea						
Category of Instrument	Analytical instruments						
Description of Instrument	Scientific instrument used to measure the surface tension of liquids. Surface tension is a property of the surface of a liquid that allows it to resist an external force. It is responsible for phenomena like capillary action, where liquids can flow against gravity in narrow tubes						
Instrument Technical Description and	1) Measurement Method: Du-nouy						
Major Specifications(This Specifications	 2) Measurement Range: 1~1000 mN/m 2) Tomporture 10, 100 %C 						
Limited to Major 5)	 4) Accuracy and Precision: ±0.01 mN/m 						
Application of Instrument (Limited to	1) Pharmaceuticals 2) Food and Payaraga Industry						
Major 4 or 5)	 2) Food and Beverage Industry 3) Adhesives and Coatings 4) Environmental Studies 						
Type of Sample Required for	Liquid sample: Tensiometers are primarily						
Analysis/Testing (Quantity, Pre-	designed for analyzing liquid samples. These						
Preparation, State etc.)	aconginea for anaryzing inquite samples. These						
Guidelines for Sample Submission –	can include water-based solutions, organic						
User Instructions	solvents, oils, emulsions, and other liquid						

	formulations.			
Types of Analysis/Testing	Wilhelmy Plate Method: Using a solid plate			
	(usually a trun surp) to measure the force required to detach the plate from the liquid			
	surface. This method is often used for static			
	surface tension measurements.			
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Location of Instrument	Instrumentation Lab			
Other Details				

User Charges

S.NO.	Type of Analysis/Testin g	Internal - within Departmen t of NITC	Internal - Other Department s NITC	External Academic Educational Institutes	National Labs	Industry
1	Wilhelmy Plate Method		100	200	200	400

Slot Booking and Payment Work Flow:

- Discuss the slot availability with the technical staff in the instrumentation lab of chemical engineering department.
- Collect the request form.
- Payment should be at the accounts section of the institute.
- Get the request form signed from the faculty in charge.
- Submit the request form and samples in the instrumentation lab.