

RESEARCH LABORATORY

## THIN FILM COATER

**Make and Model :** HINDHIVAC model [PVD method]

**Added Features :** Thickness Monitor, Substrate heater and Substrate rotator

**Specific Application:**

- Nano films
- Thin films for solar cells
- Thickness controlled thin films
- Annealing temperature can be controlled
- Uniform coating is possible

**Charges:**

Academia : Rs. 150 / sample

Industry : Rs. 300 / sample

DD should be drawn in the favour of "The Registrar, SCSVMV UNIVERSITY, ENATHUR, KANCHIPURAM - 631561.

**Information required:**

- Nature of the sample
- Thickness to be coated
- Melting point of the sample
- The sample should not be hazardous
- Density and Acoustical impedance of the sample should be known.

**Contact person:**

Ms. J.Suganthi, Asst. Prof. of Physics, Department of Physics, SCSVMV University, Enathur, Kanchipuram – 631561.

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## BROOKEFIELD VISCOMETER

**Make and Model :** BROOKEFIELD , USA

**Added Features :** Temperature controlled viscosity studies can be done

**Specific Application:**

- Viscosity of liquids can be measured from upto 10cP
- At different temperatures, viscosity studies can be done
- Digital data output can be obtained.

**Charges:**

Academia : Rs. 100 / sample

Industry : Rs. 200 / sample

DD should be drawn in the favour of "The Registrar, SCSVMV UNIVERSITY, ENATHUR, KANCHIPURAM - 631561.

**Information required:**

- Nature of the sample
- The sample should not be hazardous

**Contact person:**

Mr. R.Padmanabhan, Department of Physics, SCSVMV University, Enathur, Kanchipuram – 631561.

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# ULTRASONIC INTERFEROMETER – LIQUIDS (ANALOG & DIGITAL)

**Make and Model :** Mittal, NewDelhi & Vi-Microsystem, Chennai

**Added Features :** Temperature controlled studies can be done

**Specific Application:**

- Velocity of liquids can be measured
- At different temperatures, velocity can be measured



**Charges:**

Academia : Rs. 50 / sample

Industry : Rs. 100 / sample

DD should be drawn in the favour of "The Registrar, SCSVMV UNIVERSITY, ENATHUR, KANCHIPURAM - 631561.

**Information required:**

- Nature of the sample
- The sample should not be hazardous

**Contact person:**

Mr. R.Padmanabhan, Department of Physics, SCSVMV University, Enathur, Kanchipuram – 631561.

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# ULTRASONIC INTERFEROMETER – SOLIDS (DIGITAL)

**Make and Model :** Vi microsystem, Chennai (VCT 70)

**Added Features :** Temperature controlled studies can be done

**Specific Application:**

- Shear Velocity & Longitudinal velocity of solids can be measured
- At different temperatures, velocity can be measured
- Elastic constants of the sample can be determined



**Charges:**

Academia : Rs. 100 / sample

Industry : Rs. 300 / sample

DD should be drawn in the favour of "The Registrar, SCSVMV UNIVERSITY, ENATHUR, KANCHIPURAM - 631561.

**Information required:**

- Nature of the sample
- The sample should not be hazardous

**Contact person:**

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# GaUSSIAN 09 Software version D.01

**Added Features :** Molecular structural parameter studies can be done

**Specific Application:**

- Structural Bond Parameters can be calculated
- Assignment of Vibrational frequencies of the molecule
- Generation of IR, Raman and VCD spectrum



- Determination of the electronic excited states of the molecule
- NBO Analysis
- Electrostatic potential analysis and generation of contours
- HOMO-LUMO analysis
- Mulliken population analysis

**Charges:**

Academia : Rs. 500 / sample

Industry : Rs. 750 / sample

DD should be drawn in the favour of "The Registrar, SCSVMV UNIVERSITY, ENATHUR, KANCHIPURAM - 631561.

**Information required:**

- Name of the compound
- 2D and 3D structure of the compound
- Smiles format of the compound

**Contact person:**

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## SIEVE SHAKER

**Make and Model :** Sieve shaker – Bionics make/GSS/112A

**Added Features :** 8 Inch Test Sieves in sizes of 25,45,53,63,90,106,125,  
180 and 250 microns can be done

**Specific Application:**

- Granulometric separation of sediments into different grain sizes

**Charges:**

Academia : Rs. 50 / sample

Industry : Rs. 100 / sample

DD should be drawn in the favour of "The Registrar, SCSVMV UNIVERSITY, ENATHUR, KANCHIPURAM - 631561.

**Information required:**

- Sediment samples (fully dried)

**Contact person:**

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