Usage Request Form – External Users

SEE Material Characterization – GCMS, GC-TCD/FID

Sustainable Energy Engineering, IIT Kanpur

Date:

Name_____	Supervisor's Name:_____
Email:_____	Department:_____
Mobile No: _____	Institute:_____

Analysis ☐ GCMS ☐ GC-TCD/FID			**Parameters**			
S. No.	**Sample Name/ Code**	**Hazardous (Y/N)**	**Solvent & Its B. P.**	**Sample Solvent & Injection Vol. (mL)**	**Flow Rate (mL/min)**	**Expected Mass & Its B.P.**

Required Column

GCMS	**GC-TCD/FID**
☐ **HP-5 MS -** Higher Hydrocarbon	☐ **PoraPLOT U -** Light hydrocarbons, permanent gases, VOCs
☐ **HP-5 MS UI -** Semivolatiles, Halogenated Compounds, Amines	☐ **CP-Molsieve 5A:** O_2, N_2, CO, CH_4, Ar - permanent gas separation
☐ **DB-WAX -** Analyzing compounds with polar functional groups	☐ **MS 5A -** Permanent gases and small molecules
☐ **DB-624 -** Volatile Organic Compounds	☐ **HayeSep Q -** C_1-C_4 hydrocarbons, CO_2, light alcohols, H_2S

Sample Preparation Checklist:

☐ Sample is fully soluble in a suitable organic solvent.
☐ Sample and Calibration Standards filtered through ≤ 0.22 µm filter.
☐ Sample volume is at least 1 mL per injection.
☐ Sample solvent & chemistry compatible with selected column/detector (no strong acids/bases/polymers)
☐ If hazardous, MSDS or safety info provided.

LAB USE	Date		Booking No		**User's Signature**
	Done By		Log Page No		

Payment Details			
No. of Samples	User Charges per Sample		Total Charges (Rs.)
	Academic (Rs. 2000)/ Industry (Rs. 4000) +18% GST		
Bank Name		Branch	
DD No. & Date			

Reference/Transaction No. (For Online Payment)		Txn Date	
User Name		**Signature**	

For Office Use			
Kindly Transfer Rs._____to Account No. LDA/IITK/SEE/2025265 against DD No/Online Transaction number _____ in favour of "The Registrar, IIT Kanpur" payable at Kanpur; Dated			
SEE Staff Name		**Signature**	