

**NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI – 620 015**

**Department of Energy and Environment (DEE)**

**Testing and Consultancy Charges**

14-11-2014

Sr.No	Instrument Name	Analysis details	No. of Sample	Charges (Rs).		
				Educational Institution	R&D/National Lab	Industry
1.	Thermo Gravimetric Analyzer (TGA)	Material Characterization by thermal analysis (Solid sample)	Up to 10 S above 10 S	500 PHr 300 PHr	1000 PHr 600 PHr	2000 PHr 1200 PHr
2.	Differential Scanning Calorimeter (DSC)	Material Characterization by thermal analysis (Solid sample)	Up to 10 S above 10 S	450 PHr 250 PHr	900 PHr 500 PHr	1600 PHr 1000 PHr
3.	CHNS/O Analyzer	Elemental characterization (Quantification) for solid samples	Up to 5 S CHN Mode Oxygen Mode above 5 S CHN Mode Oxygen Mode	750 PS 1000 PS 500 PS 600 PS	1400 PS 1600 PS 1000 PS 1200 PS	2200 PS 2200 PS 1500 PS 1500 PS
4.	TOC Analyzer	Quantification of total organic, inorganic carbon for solid & liquid sample	TC/ TIC - Liquid TOC – Liquid TC/TIC – Solid TOC – Solid Up to 4 S  5 S and above TC/ TIC - Liquid TOC – Liquid TC/TIC – Solid TOC – Solid	400 PS 400 PS 600 PS 600 PS 250 PS 300 PS 350 PS 400 PS	600 PS 600 PS 800 PS 800 PS 500 PS 500 PS 700 PS 700 PS	900 PS 1100 PS 1300 PS 1300 PS 900 PS 1000 PS 1100 PS 1200 PS
5.	UV/Visible/ NIR Spectrophoto	Absorbance/Transmission (liquid sample)	-	250 PS	400 PS	700 PS

	meter	Reflectance (Solid sample)		350 PS	600 PS	1000 PS
6.	FTIR Spectroscopy	Spectral analysis for liquid and solid samples using Fourier Transform IR principle	-	75 PS	150 PS	250 PS
7.	UV visible spectrophoto meter	Light transmission studies	-	25 PS	50 PS	100 PS
8.	Bomb Calorimeter	Calorific value measurement by thermal analysis	-	300 PS	600 PS	1000 PS
9.	Moisture Analyzer	Measurement of moisture from ppm to percentage for liquid & solid samples	-	500 PS	1000 PS	2000 PS

**\* S- Sample, PS- Per Sample, PHr- Per Hour**

**Note:**

1. All analysis is made in normal specification ranges. Special request can be executed only if it is mentioned in the special instruction column of application form of the instrument.
2. TGA, DSC instruments are operated on hour basis. Extra charges Rs.100/-, 200/- 300/- for Educational Institute, National Laboratory, Industry will be applicable respectively.
3. Service tax @12.36% is applicable extra and it is 5% for Educational Institution.
4. Samples will be analyzed once in a week and it depends on accumulation of sample at DEE.
5. Student/Employee is requested to see the make, model, specification and working condition of the instruments before apply.
6. Student/Employee is requested to submit the nature of the sample preparation along with application form.
7. Student/Employee is requested to bring clean sample of minimum quantity with proper order and labeling.
8. Application form should be submitted offline along with DD in favor of The Director, NIT Trichy payable at Tiruchirappalli to Head DEE. The sample will be processed subject to submission & approval of payment by concerned.
9. Complaints regarding the measurements can be given to Head, DEE.
10. Any special help other than routine measurements will be treated only as consultancy service. Servicing and training for both operation and maintenance of analytical instruments will also be undertaken on specific requirements on request.
11. For further details please contact Head, DEE, NITT.