

## TG-MS Request Form for Internal User

**Instrument Name:** TGMS-Themo Mass Photo (Rigaku)

**Analysis Temperature Range:** Ambient to 1100°C

**Mass Range:** 2 - 410 amu (Resolution: 1 amu)

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### **Instructions:**

1. **Sample Form:** Powder (~25 mg).
  2. **Temperature Range & Heating Rate:** The analysis cannot be carried out if these parameters are not specified.
  3. **Prohibited Samples:** Explosive, poisonous samples, or those releasing toxic/obnoxious gases/fumes upon heating cannot be analysed.
  4. **Materials:** The sample holders are made of Ceramic.
  5. **Decomposition Products:** You must specify the decomposition products associated with the heating cycle along with mass number. Any functional groups that may explode or foam are strictly not allowed (e.g., Azide, Perchlorate, poly-nitro, nitrogen-rich compounds).
  6. **Repeat Analysis:** A new form must be filled out for each repeat analysis, and the sample will be analysed as per the queue.
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### **Personal Information**

1. **Name of the User:** \_\_\_\_\_
2. **Roll No:** \_\_\_\_\_
3. **User Email ID:** \_\_\_\_\_
4. **Mobile Number:** \_\_\_\_\_
5. **Department / Institution:** \_\_\_\_\_
6. **Name of Guide:** \_\_\_\_\_
7. **Guide Email ID:** \_\_\_\_\_
8. **Lab Intercom No:** \_\_\_\_\_

### **Work Request Information**

[1] PhD [2] Dual Degree [3] BTech [4] MTech [5] Consultancy  
[6] Sponsored Project [7] Other:

9. **Number of Samples (Max. 3 at a time):** \_\_\_\_\_
10. **Sample Code:** \_\_\_\_\_

11. For TG-MS please specify decomposition Product and its expected mass number for each sample

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12. Material Details (Elements/Functional Groups Present):

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**Experimental Parameters**

13. Heating Rate: 10 °C/min

14. Maximum Temperature (°C): \_\_\_\_\_

14. Measurement Atmosphere: Helium

15. Additional Information (If any):

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**Note: Final data will be shared in ASCII format to your email.**