

Tender Specifications for TG-DTA

Temperature range : RT to 1100 degC

Heating Rate : 0.001 to 100 degC/min

Temperature precision(Repeatability) : 0.3 deg C

Temperature Resolution : 0.001 deg C

The System should perform simultaneous TG-DTA measurement

Temperature accuracy: ± 1 deg C

System should be of vertical , top loading design and differential balance

The balance must have a weighing range of minimum of 1 - 5 mg.

The precise balance must have a resolution of 0.03 μ g.

The balance system must have a stability of less than 1.15 μ g/h at 500°C under isothermal and optimum environmental conditions.

The DTA reproducibility must 1.3 μ V or better

The baseline drift must be less than 2 μ V

For control of the gas flow the system must be delivered with 3 internal mass flow controllers (MFCs)

Crucibles made from Al, Al₂O₃, Pt/Rh and fused silica

The crucibles should have a volume between 25 μ l and 400 μ l

The measurement Atmosphere can be Air, Nitrogen, Argon and Oxygen

The cooling system must be air cooled

Gas cylinders for Air, Nitrogen, Argon and Oxygen to be provided along with regulators

Vibration free table must be provided

Instrument provide with software at free of cost

Provide 5 KVA UPS for instrument safety

Desk top computer with latest compatible operating System (OS)

List of users must be provided