Central Glass & Ceramic Research Institute KOLKATA (WEST BENGAL) INDIA

CORRIGENDUM

REFERENCE NO.:- P/NC/123/AA (NARODA)/DB/GTE/21-22

DATE: 28/02/2022

NAME OF EQUIPMENT: SIMULTANEOUS TG-DTA (AMBIENT TO 1500° C ALONGWITH STANDARD ACCESSORIES

CONSEQUENT TO THE PRE-BID MEETING HELD ON 18.02.2022, THE REVISED SPECIFICATION OF "SIMULTANEOUS TG-DTA (AMBIENT TO 1500° C ALONGWITH STANDARD ACCESSORIES" IS GIVEN OVERLEAF:

With reference to the tender enquiry P/NC/123/AA (Naroda)/DB/GTE/21-22, following clauses may be read as follows instead as mentioned in the tender document.

Page No. 8 under TERMS AND CONDITIONS of our Tender Document

Para: Firm must submit:

Point No. IV may be read as follows:

Existing Clause	New Clause	
The bidders will have to provide the	The bidders will have to provide the	
details of Indian Customers with	details of Indian Customers with	
whom the quoted model or	whom the quoted model or	
substantially equivalent models have	substantially equivalent models	
been supplied mentioning the	meeting to tender specifications (at	
customers contact, address, phone, e-	least 5 systems) have been supplied	
mail etc.	in last 5 years mentioning the	
	customers contact, address, phone, e-	
	mail etc.	

Revised technical specifications of "SIMULTANEOUS TG-DTA (AMBIENT TO 1500° C ALONGWITH STANDARD ACCESSORIES" after Pre-bid meeting held on 18/02/2022.

a.	Temperature	Ambient to 1500°C	1each
	measuring range	Ambient to 1300 C	Teacii
b	Type of Furnace	Suitable furnace design with Pt-Rh heating elements. The furnace movement, opening and closing shall be controlled through software or push button or manual	
:	Temperature accuracy	± 1°C or better	
d	Heating rate	0.1 to 50°C /min or more up to max. Temperature.	
е	Balance resolution	0.2 μg or better	10 10 20.
f	TG Balance drift/balance stability	<40 μg	
g	TGA Balance Accuracy	≤± 1% or better.	In subject
h	Measurable range TG	± 200 mg or better	9 - 4.10
i	Measurable range DTA	±1000micro V or better	Similar.
j	Atmosphere-	Air, oxygen and inert gases Should be able to perform measurements under Air, oxygen and inert gases in Dynamic or Static.	
k	Flow controller	The system should have the facility to purge inert gases for protecting balance as well as to purge 2 gases to sample chamber during analysis if we have to do part of the experiment in inert gas and other in air/oxygen with automatic gas purging and sweeping during sample runs with necessary built in Mass Flow controller (Software controlled) to control the flow rates. Provision for control gases (inert gas and air/oxygen) through software for gas flow setting and auto switch over at set time or temperature. Flow rate- 0.1 – 100 ml/min.	
1	Software for measurement, data collection and analysis	Measurement – All the parameters like TGA, DTG, DTA could be measured and displayed on the screen. The software should have the flexibility to measure data with respect to temp and/or time. Measuring condition input, temperature programming (20 steps or more) Measurement start, hold, end, option for Stepwise isothermal analysis, Dynamic rate	1 each

	control method, Constant rate control method.	
	Analysis- Various calculations like mass change	
	(mg/%), derivative calculations, peak area, on	
	set point, on set temp, endpoint, peak point,	
	base line correction, add, subtract, display of	e Decention
	more curves on the screen, smoothening of	
	data, slope adjustment, overlay of curves should	
	be built in. Option for export data in excel or	
	other suitable format. The system shall have	
	provision for calculated DSC in software and	
	additional features if any.	
Sco	ppe of supply & incidental services: As per above tech specification and	
ter	ns mentioned below.	
a.	Standard accessories: At least 3 Calibration standards for temperature	1 set
	calibrations from RT to maximum temperature and one calibration standard	
	for mass loss calibration (Calcium oxalate/Calcium carbonate) along with	
	standard alumina required.	
b.	Platinum or Pt-Rh cylindrical Sample pans suitable for clay, ceramic, glaze	10 nos
	or frit.	
c.	Consumables- Cylindrical alumina sample pans	20 nos.
	Installation, commissioning, demonstration and training to 2 to 3 persons	
	(For 3-5 days) should be performed at CSIR-CGCRI, Naroda Centre,	
	Ahmedabad by factory trained Engineer.	
e.	Complete operational and service manual in English for main instrument	
	and accessories.	
f	Following items also required to be supplied by the firm along with the	
•		
:\	main equipment	1 No.
'/	Computer: Window 10 based computer compatible with all applications	
	using supplied TG-DTA (Min. Configuration of i5 or above, Screen Size, 19	
	inch, 1 TB, 8GB RAM, USB ports min.2 nos. or more, Additional drive	
CD/DVD for software installation, Video card as per the requirement)		
II)	Colour Laser jet Printer	1No.
iii)	5 KVA UPS with at least 30 minutes back up.	1No.
iv)	iv. Necessary Gas cylinders (Air & N ₂ - suitable Grade for indented	1 each
	application), suitable regulators, pressure gauges, tubing's (for Conducting	
	experiments in air & N ₂).	

The above amendments shall amount to amendments of the relevant terms of our Bid Document for CGCRI Tender No. P/NC/123/AA (NARODA)/DB/GTE/21-22.

All the other Tender terms remain unchanged.

(Anjani Kr. Pandey) Stores & Purchase Officer

अंजनी कुमार पाण्डेय/Anjani Kumar Pandey भण्डार एवं क्रय अधिकारी/Stores & Purchase Officer सीएसआईआर - केन्द्रीय कोच एवं सिरामिक अनुसंघान संस्थान CSIR - CENTRAL GLASS & CERAMIC RESEARCH INSTITUTE 196, राजा एस. सी. मल्लिक रोड / 196, Raja S. C. Mullick Roed कोलकाता / Kolkata- 700 032