



Government eProcurement System

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Published Corrigendum Details

Date : 24-Jul-2025 05:45 PM

Print

Organisation Chain :	Council of Scientific and Industrial Research CSMCRI-Bhavnagar - CSIR Purchase-CSMCRI - CSIR
Tender ID :	2025_CSIR_240132_1
Tender Ref No :	10-53(1470)/24-25/PB/T-17
Tender Title :	procurement of THERMAL GRAVIMETRIC ANALYZER(TGA) AND DIFFERENTIAL SCANNING CALORIMETER
Corrigendum Type :	Other

Corrigendum Document Details

Corr.No.	Corrigendum Title	Corrigendum Description	Published Date	Document Name	Doc Size(in KB)
1	revised specification	after Pre-bid meeting revised specification	24-Jul-2025 05:44 PM	1470.pdf	1531.64

**सीएसआईआर- केन्द्रीय नमक व समुद्री रसायन अनुसंधान
संस्थान, भावनगर**

Tender No. : 10-53(1470)/24-25/PB/T-17

Date: 24.07.2025

Ref. No: - 1) Tender No. : 10-53(1470)/24-25/PB/T-17 Dated 03.07.2025

2) E-tender ID: 2025_CSIR_240132_1 Dated: 03.07.2025

NOTE

Pre-bid meeting for the Procurement of **Thermal Gravimetric Analyzer(Tga) And Differential Scanning Calorimeter** was held on 17.07.2025 at 10:30 AM in Hybrid Mode.

After the discussion in the meeting, the technical committee recommends the final and frozen technical specifications as attached. All the bidders/suppliers kindly submit their offer as per final and frozen technical specifications.

Last date of submission of bids: 11.08.2025 (6:00 Pm IST)

Date of opening of Technical bid: 13.08.2025 (11:00 AM IST)

All the bidders please take note of the same prior to submission of their bid.

All other terms and conditions will remain unchanged.


Stores and Purchase Officer

Specifications of Differential Scanning Calorimeter (DSC)

Instrument Type: Differential Scanning Calorimeter (DSC)

Purpose: Measurement of heat flow, phase transitions (melting, crystallization, glass transition), oxidation stability.

Measurement method : Heat flux

Temperature range : -150°C to 700°C (with liquid nitrogen cooling) or better

Temperature accuracy : $\pm 0.1^{\circ}\text{C}$ or better

Temperature precision : $\pm 0.02^{\circ}\text{C}$ or better

Heating rate : $0.02^{\circ}\text{C}/\text{min}$ to $100^{\circ}\text{C}/\text{min}$ (adjustable) or better

Cooling rate : $1^{\circ}\text{C}/\text{min}$ to $50^{\circ}\text{C}/\text{min}$ (adjustable) or better

DSC measuring range : $\pm 350 \text{ mW}$ or better

Baseline flatness : $< 10 \mu\text{W}$ or better

Baseline repeatability : $< 20 \mu\text{W}$ or better

Enthalpy precision : 0.1% or better

Enthalpy repeatability : $\pm 0.3 \%$ or better

Gas Inlets : 2 independent experiment gas channels with Mass Flow Controller (e.g. Air, N_2 , O_2 , Ar, etc.) in addition to protective gas with Mass Flow Controller.

Corrosion Resistance: Inert materials for reactive gas analysis

Sample crucibles : Aluminum -1000 nos.

Autosampler : 30 samples or higher

Calibration & Validation : for temperature and heat flow, Supplier must provide factory certificate.

Calibration standards : Must include Indium, Zinc, and Sapphire for validation.

Safety : over-temperature protection, gas leak detection

Software:

Compatibility : Windows 10/11

User-friendly, real-time data acquisition, display & analysis

Data Export Formats : CSV, ASCII, PDF

Analysis Features : Peak integration, Glass transition analysis, Specific heat capacity (C_p) measurement, Modulated DSC (MDSC) for separating reversible/irreversible transitions and other standard features.

Specifications of Thermogravimetric Analyzer (TGA)

Instrument Type: Thermogravimetric Analyzer (TGA)

Purpose: Measurement of mass changes as a function of temperature/time in controlled atmospheres.

Temperature range : Ambient to 1000°C or better

Temperature accuracy : $\pm 1^{\circ}\text{C}$ or better

Heating rate : Programmable from $0.1^{\circ}\text{C}/\text{min}$ to $100^{\circ}\text{C}/\text{min}$ or better

Cooling rate : Rapid cooling capability

Weighing capacity : $\geq 1\text{g}$ or better
Weighing precision : $\pm 0.01\%$ or better
Weight baseline drift : $< 30\text{ }\mu\text{g}$ or better

Gas Inlets : 2 independent experiment gas channels with Mass Flow Controller (e.g. Air, N_2 , O_2 , Ar, CO_2 etc.) in addition to protective gas with Mass Flow Controller.
Corrosion-Resistant Furnace : For corrosive gas analysis

Sample crucibles : Alumina – 10 nos.
Autosampler: 25 samples or higher

Software:
Compatibility: Windows 10/11
User-friendly, real-time data acquisition, display & analysis
Data Export Formats : CSV, ASCII, PDF
Analysis Features: Derivative TGA (DTG) curves, Automatic peak detection and integration and other standard features.
Safety : over-temperature protection, gas leak detection

Warranty for DSC and TGA : Minimum 3 years (parts & labor)

Non-comprehensive annual maintenance contract for DSC and TGA : 5 years post warranty period - 2 Preventive visits + 1 breakdown visit annually, separately for DSC and TGA.

2 nos . Computer with monitor: i5 processor 3 MHz or higher, 16GB, 2x500GB SSD, ports (ethernet, USB), serial (if required), license Windows 10/11, monitor 23 inches or higher, keyboard and mouse

One computer for DSC and TGA control and data acquisition software and the other for data processing and transmission.

Gas purification station – 1 no. : suitable for N_2 , CO_2 , O_2 with independent valves and regulators for each gas, SS tubing 25 – 30 m length each for N_2 , CO_2 , O_2 .

Installation and Commissioning : The supplier shall perform on-site installation, commissioning, and start-up of all system components including gas purification station in order to provide a fully functional system.

Testing : The installed system shall be tested for its performance at CSIR-CSMCRI premises in accordance with the specifications mentioned in the Purchase Order. Tests shall demonstrate the proper operation of the instrument and all components.

Training : On-site operation, maintenance and application training for CSIR-CSMCRI staff minimum 2 days each on DSC and TGA.

Please provide details of operational installations each for the quoted DSC and TGA models in India including CSIR labs, with performance reports from users (name, organization, contact details, and commissioning dates) for verification. At least, three are required.

Spares & Service Support : shall be available for the next 10 years from the date of installation.

Operation and maintenance manual, standard tool kit shall be supplied along with the instrument.

Please furnish original catalogues from the manufacturer of the instrument with technical specifications and application notes demonstrating instrument performance capabilities.

Please furnish details of the nearest service setup to CSIR-CSMCRI, Bhavnagar along with address, telephone numbers.

Please confirm that the bid includes all required components to deliver a fully functional system, complete with installation, calibration, testing, training, and warranty documentation.

Bidders shall submit the response sheet for all above tender specifications/details as per the following specimen :

CSMCRI specifications	Bidder specifications	Remarks

Failure to provide all the above-mentioned information may result in the bid being rejected. Bids that are unclear or leave room for interpretation will be considered unresponsive and will not be evaluated.



Basic Details

Organisation Chain	Council of Scientific and Industrial Research CSMCRI-Bhavnagar - CSIR Purchase-CSMCRI - CSIR		
Tender Reference Number	10-53(1470)/24-25/PB/T-17		
Tender ID	2025_CSIR_240132_1	Withdrawal Allowed	Yes
Tender Type	Open Tender	Form of contract	Supply
Tender Category	Goods	No. of Covers	2
General Technical Evaluation Allowed	No	ItemWise Technical Evaluation Allowed	No
Payment Mode	Not Applicable	Is Multi Currency Allowed For BOQ	No
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	Yes

Cover Details, No. Of Covers - 2

Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical	.pdf	Bidder Information Form as per annexure
		.pdf	Manufacturers Authorization Form
		.pdf	Bid Securing Declaration as per annexure
		.pdf	Performance Statement Form as per annexure
		.pdf	Deviation Statement Form as per annexure
		.pdf	Service Support Detail Form as per annexure
		.pdf	code of integrity and conflict of interest
		.pdf	Organizational Chart with Technical Qualification Power of Attorney of Tenderer as per annexure
		.pdf	Financial Statement of the Tenderer as per annexure
		.pdf	Format for Affidavit of Self Certification regarding Class of Local Supplier, Local Content and Dome
		.pdf	Declaration of Eligibility Bidders as per annexure
		.pdf	Price Schedule Form in Indian Currency as per annexure
		.pdf	Checklist as per annexure
		.pdf	Compliance Statement Form as per annexure
		.pdf	land border certificate
		.pdf	TECHNICAL LITERATURE
		.pdf	SCHEDULE OF REQUIREMENT as per chapter 3
		.pdf	Purchase Order copies of identical or similar type of equipment during the last 3 years along with d
		.pdf	Documentary evidence about the status of the bidder i.e. whether MSE or

			not, owned by SC/ST or not a
		.pdf	COPY of RTGS/Bank details as per annexure 13
		.pdf	Copy of PAN card and GST in the name of firm/proprietor
2	Finance	.pdf	Bid Form as per annexure
		.pdf	PRICE BID as per BOQ
		.pdf	OTHER IMPORTANT DOCUMENT IF ANY
		.xls	BOQ

Tender Fee Details, [Total Fee in ₹ * - 0.00]				EMD Fee Details			
Tender Fee in ₹	0.00			EMD Amount in ₹	0.00	EMD Exemption Allowed	No
Fee Payable To	Nil	Fee Payable At	Nil	EMD Fee Type	fixed	EMD Percentage	NA
Tender Fee Exemption Allowed	No			EMD Payable To	Nil	EMD Payable At	Nil

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Work / Item(s)					
Title	procurement of THERMAL GRAVIMETRIC ANALYZER(TGA) AND DIFFERENTIAL SCANNING CALORIMETER				
Work Description	procurement of THERMAL GRAVIMETRIC ANALYZER(TGA) AND DIFFERENTIAL SCANNING CALORIMETER				
Pre Qualification Details	procurement of THERMAL GRAVIMETRIC ANALYZER(TGA) AND DIFFERENTIAL SCANNING CALORIMETER				
Independent External Monitor/Remarks	NA				
Show Tender Value in Public Domain	No				
Tender Value in ₹	0.00	Product Category	Miscellaneous Goods	Sub category	NA
Contract Type	Tender	Bid Validity(Days)	180	Period Of Work(Days)	180
Location	CSIR-CSMCRI, BHAVNAGAR	Pincode	364002	Pre Bid Meeting Place	Hybrid Mode as mentioned in tender
Pre Bid Meeting Address	CSIR-CSMCRI, BHAVNAGAR	Pre Bid Meeting Date	17-Jul-2025 10:30 AM	Bid Opening Place	CSIR-CSMCRI, BHAVNAGAR
Should Allow NDA Tender	No	Allow Preferential Bidder	Yes		

Preferential Bidder Category		
S.No	Preference Category	Tolerance Percentage
1.	Make in India	20.00
2.	MSME	15.00

Critical Dates			
Publish Date	03-Jul-2025 06:00 PM	Bid Opening Date	13-Aug-2025 11:00 AM
Document Download / Sale Start Date	03-Jul-2025 06:00 PM	Document Download / Sale End Date	11-Aug-2025 06:00 PM
Clarification Start Date	NA	Clarification End Date	NA
Bid Submission Start Date	25-Jul-2025 06:00 PM	Bid Submission End Date	11-Aug-2025 06:00 PM

Tender Documents					
NIT Document	S.No	Document Name	Description	Document Size (in KB)	
	1	Tendernotice_1.pdf	NIT	778.69	
Work Item Documents	S.No	Document Type	Document Name	Description	Document Size (in KB)
	1	Tender Documents	TES.pdf	TES	3070.06
	2	BOQ	BOQ_273299.xls	boq	421.00

Auto Extension Corrigendum Properties for Tender

Iteration	No. of bids required for bid opening a tender	Tender gets extended to No. of days
1.	2	7

Bid Openers List

S.No	Bid Opener Login Id	Bid Opener Name	Certificate Name
1.	sdchauahan.eproc@csir.res.in	Sanjay Chauhan	SANJAY DINESHBHAI CHAUHAN
2.	rkhp.eproc@csir.res.in	Ravi Kumar Patel	RAVIKUMAR HASMUKHRAI PATEL
3.	kajald.eproc@csir.res.in	Kajal Dhameliya	KAJALBEN MOHANBHAI DHAMELIYA

GeMARPTS Details

GeMARPTS ID	BBRRMIWZL8W6
Description	THERMAL GRAVIMETRIC ANALYZER(TGA) AND DIFFERENTIAL SCANNING CALORIMETER
Report Initiated On	03-Jul-2025
Valid Until	02-Aug-2025

Tender Properties

Auto Tendering Process allowed	No	Show Technical bid status	Yes
Show Finance bid status	Yes	Stage to disclose Bid Details in Public Domain	Technical Bid Opening
BoQ Comparative Chart model	Normal	BoQ Compartive chart decimal places	2
BoQ Comparative Chart Rank Type	L	Form Based BoQ	No

TIA Undertaking

S.No	Undertaking to Order	Tender complying with Order	Reason for non compliance of Order
1	TIA UNDERTAKING GEM	Agree	
2	PPP-MII Order 2017	Agree	
3	MSEs Order 2012	Agree	

Tender Inviting Authority

Name	DIRECTOR,CSIR-CSMCRI, BHAVNAGAR
Address	CSIR-CSMCRI, BHAVNAGAR

Tender Creator Details

Created By	Kaushal Kumar Jha
Designation	JSA
Created Date	03-Jul-2025 12:32 PM