



भारतीय प्रौद्योगिकी संस्थान भिलाई
जी.ई.सी. कैम्पस, सेजबहार, रायपुर - ४९२०१५
छत्तीसगढ़, भारत

Indian Institute of Technology Bhilai
G.E.C. Campus, Sejbahar, Raipur - 492015
Chhattisgarh, India

Date: 02-12-2022

CORRIGENDUM-2

This is in reference to the tender no. IITBh/Goods/Chem/202-23/101 Dated: 14/11/2022 for **“Supply and Installation of Inductively Coupled Plasma - Optical Emission Spectrometer (ICPOES) at IIT Bhilai”**

The following changes are made in technical specifications in the tender document:

Page No./ Section (Features Clause)	Existing Specification	Modification/corrections
Page No. 13 Section-V (A-3)	The power output stability within 1000 - 1500 Watts or better in 1 watt increments in both for Radial, Axial, and dual view analysis with auto tuning. System should be capable of doing Radial, Axial and dual view mode analysis in single run. The power efficiency of an RF generator should be greater than 79% with <0.1% variation in output power stability. System should analyse all the elements in a sample simultaneously	The power output stability within 1000 - 1500 Watts or better in suitable increments in both for Radial, Axial, and dual view analysis with auto tuning. System should be capable of doing Radial, Axial and dual view mode analysis in a single run. System should analyse all the elements in a sample simultaneously.
Page No. 13 Section-V (A-6)	Shear gas or similar approach using either air or Nitrogen for removal of cool Tail Plasma.	Shear gas using either air or Nitrogen or Argon for removal of cool Tail Plasma or similar approach for removing cool tail plasma
Page No. 13 Section-V (A-8)	Nebulizer shall be as cross flow design with Ryton Spray Chamber for corrosion resistance for aqueous applications	Nebulizer shall be as cross flow design with Ryton Spray Chamber or suitable chamber for corrosion resistance for aqueous applications



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Page No. 13 Section-V (B-1)	There should be three independent gas flow control for Plasma, Auxillary, and Nebulizer using system software. The plasma flow gas consumption to operate ICP-OES instrument should be 8L/min or less for aqueous sample.	There should be three independent gas flow controls for Plasma, Auxiliary, and Nebulizer using system software. The plasma flow gas consumption to operate an ICP-OES instrument should be 16 L/min or less for aqueous sample.
Page No. 13 Section-V (B-2)	Nebulizer argon gas flow should be variable between 0 and 2.0 L/min in 0.01 L/min increments using a built in Mass Flow Controller.	Nebulizer argon gas flow should be variable between 0 and 1.5 L/min or better in 0.01 L/min increments using a built in Mass Flow Controller.
Page No. 14 Section-V (C-1)	The system shall be high speed, high light through put based on dual monochromator/polychromator based Spectrometer with Echelle Grating and Optical Resolution of minimum 0.009 nm or better at 200 nm	The system shall be high speed, high light throughput based on polychromator based Spectrometer with Echelle Grating and Optical Resolution of minimum 0.009 nm or better at 200 nm
Page No. 14 Section-V (C-2)	The Echelle Grating should be with ruling density should be more than 76 lines/mm	removed
Page No. 14 Section-V (C-3)	The UV-sensitive, dual back side illuminated Charge-Coupled Device (CCD) array detector having cooling facility using a single-stage integrated Peltier cooler operated at approximately -8 °C	The UV-sensitive, dual back side illuminated Charge-Coupled Device (CCD) array detector having cooling facility using a single-stage integrated Peltier cooler operated at approximately -8 °C or other superior detector technology
Page No. 14	Wavelength Range - 165 - 900 nm or better	Wavelength Range - 165 - 785 nm or better

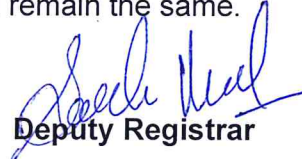


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Section-V (C-4)		
Page No. 14	The instrument shall get stabilized in	The instrument shall get stabilized in less than 10 minutes from cold start (from main power off position) and ready for analysis or standby mode
Section-V (C-5)	less than 10 minutes from cold start (from main power off position) and ready for analysis	
Optional item: Microwave digester	Price should be quoted in the 4 th row in the price bid format uploaded in the eprocurement portal.	Microwave digester: 1. Vessels: minimum 50 mL 2. Pressure: 35-40 bar 3. Temperature: 200-220 degree C on operating condition; automatic cooling system. 4. HF registered 5. Output power : 1200 watt or better peak output power 6. Application: Acid digestion for close vessels, organic metals etc. for further analysis with ICP equipment. 7. USB connectivity 8. Consumables: To be supplied with required consumables. 9. Complete set of vessels. 10 calibration certificates for equipment along with safety compliance certified from safety authority.

All other terms and conditions of the tender document will remain the same.


Deputy Registrar
(Stores & Purchase)