

University College of Engineering and Technology, Bikaner (Constituent College of Bikaner Technical University, Bikaner) (Established by the Govt. Act No. 29 of 2017)

<u>TEQIP-III</u>

CORRIGENDUM

IFB No. :- TEQIP-III/RJ/gceb/63

Package Name:- XRF Refractometer

Date : 19/06/2019

Please note following for participation in IFB No. TEQIP-III/RJ/gceb/63 for XRF Refractometer.

- 1. Last date for Sale of Bidding Document: Date: 01-July-2019 Time:10:00 hrs.
- 2. Last date and time for Receipt of Bids: Date: 01-July-2019 Time: 11:00 hrs.
- 3. Time and Date of Opening of Bids: Date: 01-July-2019 Time: 12:00 hrs.
- 4. Section VI starting at page no. 53 of SBD is replaced with Annex 1.
- 5. Price schedule in Bid Form (Section VII) are to be submitted in sealed envelope separately with bid form.

Nodal Officer, Procurement (TEQIP-III)

UCET, Bikaner



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Annex 1

SECTION VI: TECHNICAL SPECIFICATIONS

Specification for Energy Dispersive XRF (EDXRF) system

Energy Dispersive table top X-ray Fluorescence Spectrometer (Computer Controlled, microprocessor based direct excitation) for qualitative & Quantitative multielement analysis.

General:

Elemental range	Na to U
Concentration range	ppm to 100%
Excitation type	Direct

Sample Handling & Presentation:

Sample types	Should be possible to handle solids, pressed pellets , fused beads, Liquid & powder samples
Medium for analysis	Should be vacuum/helium for pressed pellet, solid & fused beads.
Dust reservoir	Should have a built-in dust reservoir to collect sample spillages.
Sample diameter	40mm

Generator :

Power output	10Watt or more
Maximum Voltage	50KV or more
Maximum Current	2mA or more

X-Ray Tube :

Power output	10Watt or more
Maximum Voltage	50KV or more
Maximum Current	2mA or more
Tube Anode	Pd/Ag

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Address: University College of Engineering & Technology Campus, RIICO Karni Industrial Area, Pugal Road, Bikaner -334004
Phone: 0151-2250940, 50 Email: principal@cet-gov.ac.in Web Site: http://www.cet-gov.ac.in



Optics:

Primary Beam filter	Automatic & software driven.
No. of filters	Minimum 6 filters.

Detector :

Detector type	High resolution Silicon Drift Detector
Detector cooling	Peltier cooling, without any need for liquid Nitrogen or external water.
Detector resolution	less than 145ev @5.9Kev at 200.000 cps.

Software :

Instrument handling software	Operational & Calibration software to be offered. Standard softwares for performing chemical analysis of Cement(PPC&OPC-43 grade) and Reinforcement Steel(Fe-500, Fe-550, Fe-500D). Standard software for performing chemical analysis of other elements.
Diagnostic software	The XRF system must have built-in diagnostic software.

Computer& Printer:

- Suitable external computer to be offered.
- Printer should be offered.

UPS:

• UPS: suitable online UPS with at least 30 minutes backup for smooth running of the offered ED-XRF system in case of power failure.

Sample Preparation Equipment:

1. Pellet Press: Minimum 25 Ton capacity. The quotation must include suitable die for making 40 mm sample, Boric acid/ Cellulose/ Wax binder and minimum1000 nos. aluminum cups for making pellet.



2. Automatic Pulveriser with Cr Steel Bowl, Feed size 5 mm, Output size 200 mesh-To be quoted as option.

Pre dispatch demo:

• Pre dispatch demo to be provided on your expenses.

Training:

• On-site training to be provided on your expenses.

Installation & Commissioning:

• Installation commissioning to be done by the factory trained engineers.

MISC REQUIREMENTS

- Sample tray.
- 10 positions sample tray.
- Sample spinner.
- 100 P1 cups, 500 pre-cut poly propylene foil.
- Standardless soft software.