



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

TEQIP-III

CORRIGENDUM

IFB No. :- TEQIP-III/RJ/gceb/106 Package Name:- Bench-top X-Ray Diffractometer

Date: 19/06/2019

Please note following for participation in IFB No. TEQIP-III/RJ/gceb/106 for X-ray Diffractometer.

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. 51 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

1.	X-ray tube	Standard Cu target with Ni-filter
2.	X-ray power unit	-Generator compatible to power the X-ray tube to its full capacity 450W or better with ability to vary voltage and current in suitable steps. -Quote the step size and the minimum values of voltage and current. -HT Stability better than +/-0.01% for Mains stability +/- 10 %. -Necessary software and hardware for diagnostics capable of checking the equipment parameters/calibration etc.
3.	Optics	Fixed Slits as per powder applications requirements.
4.	Goniometer	Radius: 140 mm or more Scanning range: -3 to +140° (2è) Measurement range: Please specify the minimum two-theta range. Preference will be given of measuring two-theta from 1°. Scanning speed: 0.01 to 100°/minute (2è) Minimum step width: 0.005° (2è) or smaller Accuracy: ± 0.02° or better
5.	Detector	1D Detector
6.	Software	Software should have a provision for the following: <ul style="list-style-type: none">• All active operations should be controllable through the software• Simultaneous data collection and data processing facility• Facilities for peak search, peak match, and pattern treatment such as data smoothing, background subtraction, 2è correction, 3D multiple pattern display, Ká2 calculation and removal, integrated intensity calculation, relative intensity ratio (RIR) quantitative analysis and crystallite size.
7.	Computer systems	Latest PC, printer, necessary software for operation and data acquisition, analysis
8.	Installation and commissioning	The instrument to be installed tested and commissioned by representative of supplier at our premises to the satisfaction of user without any cost
9.	Training	The supplier should provide the training on site free of cost.
10.	Safety	The system should be housed in a high safety standard radiation enclosure as per international norms.
11.	Chiller Unit	Compact indoor chiller unit
12.	Calibration Standard	The vendor must provide standard NIST samples and data quality guarantee on the angular position and intensity ratio carried out on such standard NIST sample



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13.	Power Requirement	Power: 220V AC, 50Hz
14.	Warranty	3 years warranty from the date of installation and extended warranty for another 2 years
15.	Notes	- List of essential spares supplied free of cost with the instrument should be given The complete set of documentations, manuals and software manuals should be provided both in softcopy and hard copy
16.	Sample Stage	Rotating Sample Stage with spinner (variable speed option) with suitable sample holders for powder samples.
17.		Complete in all respect to perform and analysis of X ray Diffraction experiment.
18.	Compliance statement:	Point wise according to our document
19.		Model should have ARB Certification for the specification