

FATA UNIVERSITY FR KOHAT,
KHYBER PAKHTUNKHWA



**ACQUISITION AND IMPLEMENTATION
OF CAMPUS MANAGEMENT SYSTEM
(CMS) AND ENTERPRISE RESOURCE
PLANNING (ERP)**

Invitation for Request for Proposal (RFP)

Procurement Ref: No	FATA UNIVERSITY/2022/ERP-001
Date of Opening	JANUARY , 2023
Venue	Committee Room, FATA University, District Kohat

FATA University FR Kohat
Invitation to bid

FATA UNIVERSITY/2022/ERP-001
Acquisition and Implementation of Campus Management System (CMS) and
Enterprise Resource Planning (ERP)

FATA University invites sealed bids on prescribed Tender Forms from well reputed firms registered with Income Tax and Sales Tax Departments, Government of Pakistan, who are on Active Taxpayers List (ATL) of Federal Board of Revenue (FBR) and Khyber Pakhtunkhwa Revenue Authority (KPRA) for the Acquisition and Implementation of Campus Management System (CMS) and Enterprise Resource Planning (ERP) under HEC's Higher Education Development in Pakistan (HEDP) Project, "Use of Special Funds for Improving Universities Financial Autonomy and Governance using Latest Technology".

Activity	Date and Time
Pre-Bid Meeting and Site Survey	January 09, 2023 at 12:00PM
Last date for submission of Bid Documents (Separately Sealed Technical and Financial Proposals)	January 18, 2023 at 12:00PM
Opening of Technical Proposals	January 18, 2023 at 12:30PM

1. The bidding documents including Contract Terms & Conditions and Specifications can be obtained from the Office of the Treasurer FATA University, District Kohat during office hours (8:00 AM to 4:00 PM) on any working day (Monday- Friday) against a fee of Rs.2000/-.
2. Selection would be made under 'Single Stage – Two Envelope Procedure'.
3. The bidders shall clearly and boldly mark the Tender description and date/time of opening on the face of sealed bid/envelope.
4. The Sealed bids, complete in all respects, must reach the Office of the Treasurer, FATA University, District Kohat as per schedule above.
5. The Financial Proposal shall invariably be accompanied with Bid Security @ 2% of the bid cost (Refundable) in the form of bank draft/CDR drawn in the name of the Treasurer, FATA University, District Kohat.
6. Bids submitted without prescribed Bid Security shall be liable for rejection at the time of bid opening.
7. Pre-bid meeting and Technical Proposal opening will be held in the Committee Room of FATA University in the presence of the bidders and University Purchase Committee (UPC), as per schedule above.
8. FATA University reserves the right to reject any or all the bids in accordance with rules in vogue.

TREASURER
FATA UNIVERSITY, FR KOHAT
Email: treasurer@fu.edu.pk; Phone No. 091 5885502

Data Sheet

Bid Selection Method	The method of selection is: Quality and Cost Based Selection (QCBS). RFP can be downloaded from: https://www.fu.edu.pk/
Bid Security	2% bid security of the total quoted price
Deliverables	<ul style="list-style-type: none">▪ Project Charter, Project Schedule, Work Breakdown Structure (WBS)▪ Fortnightly Progress Reports▪ Inception Report▪ Gap Analysis Report, Data Migration Plan▪ Installation of CMS at FATA University▪ Installation of ERP at FATA University▪ Training material▪ Training and User Acceptance Testing (UAT) at FATA University▪ Data migration and customization (if any) and development of Management Information System (MIS) reports▪ 2-months parallel run at FATA University and other campuses and sites▪ Source code & related training and technical documentation
Contact Person	For queries/ clarifications, if any please contact: Mr. Sadiq Shah Incharge IT
Language	Proposals should be submitted in English language
Currency	All prices should be quoted in Pak Rupees
Estimated Time	The estimated number of months for the assignment will be twelve (12) months.
Taxes	The price should include all applicable taxes.

Proposal Validity	Proposals must remain valid for 120 days after the submission date
Bidder must submit	Two (02) copies of technical (One Original technical and one Photocopy) and 01 copy of financial proposal.
	Technical and financial proposals should be submitted in separate envelopes and should be clearly marked as “ Acquisition And Implementation of CMS and ERP ”.
Proposal Submission Address	Treasurer FATA University, Dara Adam Khel, District Kohat, Khyber Pakhtunkhwa
Submission Date & Time	Both Technical proposal & Financial bid must be submitted in two different sealed envelopes on or before January 18, 2023 at 12:00 P.M.

1 Project Overview

The FATA University FR Kohat soliciting proposals from PROPOSER to acquire integrated Campus Management System (CMS) and Enterprise Resource Planning (ERP) solution based on any platform for the automation of student academic life cycle (from Admission till alumni) and business processes of FATA University as per high level scope of work. However, requirements/scope of work may be enhanced during the requirement analysis/gathering phase of the project.

2 Project Objectives and Background

2.1 Assignment Objectives

The objective of this assignment is to identify and select a software development/ IT vendor firm with proven experience in developing and implementing CMS and ERP based on any platform. The PROPOSER will provide off-the-shelf solution which can be deployed and implemented in a shortest span of time. The PROPOSER will perform an analysis of the FATA University's current environment, business processes and organizational strategy prior to the deployment of the software.

The high-level objectives of acquiring a new CMS and ERP solution are as follows:

- Achieving paper less working environment;
- Improve service level and coordination among departments, sections etc.;
- Reduction of approval time through automation of work flow, case management and approval cycle;
- Empowering faculty members, students and other staff to accomplish work at their own;
- Integration with the banks to streamline accounting process;
- A self-sustainable and cost-effective solution;
- Meeting FATA University needs for the next 10 years;
- Efficient student life cycle management;
- Automation of manual processes;
- Strong IT infrastructure to support new solution.

2.2 Assignment Background

FATA University currently has been using the traditional software. Both business and technology needs have changed dramatically over the period of time. Therefore, the University desires to acquire a robust, state of the art and preferable open source solution to automate its student life cycle.

3 Terms of Reference (TOR)

The FATA University intends to have off-the-shelf, web based and scalable Campus Management System (CMS) and ERP based on any platform for its Main Campus. Users of Main Campus will access these centralized web based services through intranet platform, however; remote side users of sub campuses will access these services through Pakistan Education and Research Network (PERN) which is a high speed network of Higher Education Commission (HEC) of Pakistan and is being used for inter-site connectivity.

The main components and deliverables of the assignment are as follows:

- Conduct Gap Analysis for system/ modules
- Develop software as per the FATA University requirements
- Installation and deployment of software
- Training and UAT of the software
- Implementation and live run of software

3.1 In Scope Locations

Following is the list of in-scope locations:

1. All Campuses
2. Affiliated colleges if any
3. Private candidates/Distance learning candidates

3.2 In-Scope Modules

This section describes the implementation of the systems and modules covered in this assignment.

Sr. No.	System Name	Criticality Level (High/ Medium/Low)
1.	Campus Management System (CMS)	High
2.	User Management System	High
3.	Hostel Management System	High
4.	Workflow & Data Archiving System	High
5.	Financial Management System	High
6.	Human Resource Management System	High
7.	Payroll System	High
8.	Procurement System	High
9.	Inventory System	High
10.	Business Intelligence (Bi) System	Medium
11.	Examination and Degree Section	High

The functional and other requirements are the integral part of this TOR and discussed in detail in Section 4.

4 Functional & Other Requirements

4.1 Campus Management System (CMS)

4.1.1 Campuses, Affiliated Colleges & Faculty Master File Data

The salient features of the module should include but not limited to the following:

- Facility to maintain multiple campuses and affiliated colleges, addresses, contact information, higher management profile, etc.
- Facility to define student information such as name, contact number, email address, mailing address, academic records and other details.
- Facility to define different fee structures.
- Facility to define quota rules.
- Facility to define academic rules for admission, enrollment, exams, double degree, semester freeze and un-freeze, semester repeat, attendance, grading system and other rules and scenarios defined in the prospectus and university directives.
- Facility to define scholarship programs, donors and criteria for awarding scholarships.
- Facility to setup faculties, their departments and affiliated colleges.
- Facility to define affiliated colleges and their departments
- Facility to maintain bank accounts for fee collection.
- Facility to maintain Semester and Annual Academic Programs and their details
- Any other setup required for the processing of CMS related transactions.

4.1.2 Admission Module

The salient features of the module should include but not limited to the following:

- The module starts at the stage when a student applies for the admission and ends when the student is selected in a program.
- Facility to allow students to apply for online admission. In case of receiving manual application, the concerned admission staff can enter the credentials of students such as particulars of students registered for different programs.
- Facility to verify applicants' data based on criteria defined in the system.
- Facility to define merit including quota for gender, district, provinces, marks of previously attained qualifications such as Matric, Secondary, Bachelor and other qualifications possessed by the candidate.
- Facility to publish merit list and send alert to successful candidates for interview and pay admission fee and submit their credentials online.
- Facility to tag the students who qualifies the interview and document verification process.
- Facility to generate notification to the successful candidates to deposit fee as per the schedule.
- Provision to apply for other facilities offered by the university such as transport, hostel, etc.
- Facility to cancel, suspend student admission based on the rule defined in the system such as low GPA, misconduct, non-payment of dues etc.
- Facility to conduct and maintain Hafiz-e-Quran/Disable test/interview records.

4.1.3 Enrollment Module

- The module starts at the stage when a student gets admission in a program and ends when the student is enrolled in a program.
- Facility for the student to select courses offered in a semester through the system upon new admission.
- Facility to select courses for new semester by the students.
- Facility to define and implement course selection rules as defined in the prospectus such as number of credit hours, eligibility of re-selection of repeat courses, etc.
- Facility to review enrollment list/ course selection chose by the students.
- Facility to assign CMS Registration number for record tracking.
- Facility to maintain study schemes in which students have been enrolled.
- The system should have the facility to allocate courses from multiple study schemes to students where a student can select a course from new scheme though he/she has been enrolled to old study scheme.
- Facility to freeze semester or course and generation of alerts to all the concerned departments.
- Facility to setup batch/ session to be attached with each student.
- Facility to close enrollment of student at the completion of study programs.

4.1.4 Timetable, Class Scheduler Module & Work load

- Facility to define parameter such as number of students per discipline, number of students per course in each discipline, number of labs per course, number of classes per week, teachers' maximum load, section per course, etc.
- Facility to define number of rooms and their usage (class rooms, labs, etc.)
- Facility to assign faculty members to the subject/ course
- Facility to define calendar such as shifts (morning, afternoon, night etc.), working days (Monday, Tuesday, etc.) and class duration (1 hour, 2 hours, etc.)
- Facility to define common subject combination into a single class.
- Facility to define lecturer day preference (Monday, Tuesday, etc.), lecturer time preference (Morning, afternoon, night etc.)
- Facility to support cancelation, replacement and relocation of classes.

Based on the above parameters, the system should auto generate timetable with clash checking for classrooms, faculty members and students.

- Facility to generate various reports based on timetable.
- Facility to assign workload to faculty
- Facility to assign additional workload
- Facility to generate actual work load and extra workload

4.1.5 Academic/ Event Calendar Module

The salient features of the module should include but not limited to the following:

- Facility to create semester creation with semester start date and end date.
- Facility to enter course/ semester add/ drop deadline date.
- Facility to enter tentative examination (mid-term & final-term) date sheets.
- Facility to enter result submission date.
- Facility to enter tentative result declaration date.
- Facility to enter convocation dates.
- Facility to enter dates of other non-academic events such as sports event, job

fairs, drama & debate competitions, naat & qirat competitions, or any other external event.

- Facility to define and generate alerts of the upcoming events.

4.1.6 Meetings Module

- Facility to define list of meeting venues
- Facility to create meetings with date and time
- Facility to send email/alerts to members of the meeting
- Facility to schedule meeting by voting like doodle
- Facility to assign venue to meeting
- Facility to generate real-time report of the on-going meetings

4.1.7 Student Financial Module

- Facility to generate online fee challans for the following cases:
 - Entry test fee
 - Admission of new program
 - Semester fee challan
 - Course fee, diploma, certificate fee, etc.
 - Other fee such as transcript fee, degree fee, semester fee, etc.
- Each challan will have multiple head of accounts i.e. security fee, admission fee, course fee, Student cards fee etc.
- Facility to handle the following scenarios:
 - Part payments and instalments
 - Adjustment of advances
 - Scholarship
 - Waivers
 - Penalties on late payment
 - Refund of fee
- Facility to upload bank scroll in machine readable format based on challan ID of a student or electronic data interchange service giving challan wise collection of fees deposited by the students in the bank.
- Facility to record bank/ cash receipt
- Provision to enter adjustments to rectify errors
- Provision to create bank reconciliations
- Facility to handle final settlement of students through the system
- Facility to generate projected fee estimates of any program enrolled with reference to any particular student.
- Facility to generate challan based on different category such as batch, individual student, semester wise, program wise, etc.
- Facility to maintain history of semester wise fee charged to the student.
- Integration with General Ledger (a module of ERP software) to post financial effects of different receipts in the form of journal voucher.

4.1.8 Student Discipline and Conduct Module

- Facility to maintain record of student conduct and discipline.
- Facility to issue show cause notices to students.
- Facility to send SMS/Email for personal hearing before the discipline committee.

- Facility to inform Parents/ Guardian regarding student misconduct if needed.
- Facility to maintain record of show cause notices/penalties.
- Facility for student to appeal against the decision of disciplinary committee to the appellate committee.
- Facility to communicate decision of disciplinary/ appellate committee to the student concerned.

4.1.9 Examination Module

- Facility to propose tentative semester wise date sheet by Controller of Examinations.
- Facility to publish final date sheet on university website as well as on student portal after getting approvals.
- Facility to schedule exam and resources such as seating capacity, supervisory staff, etc.
- Facility for the faculty/ Exam section to setup scoring scheme for each course such as weightage of mid-term exam, final-term exam, assignments, quizzes, class participation, etc. to compute GPA.
- Provision to adjust score based on absolute marking.
- Facility for the faculty to upload scores of mid-term, final-term, quizzes, assignments, etc.
- Facility to verify and approve award list at different levels (HOD, etc.) compiled by different faculties. The award list contains the results of mid and final terms exam and score of assignment obtained by the students.
- Online hosting of final results and transcript so that the student can view or print result from student web portal.
- Facility to constitute committee of external examiner, supervisor and other member to examine the thesis submitted by students and to conduct viva.
- Facility to attach each batch of students with the committee, supervisors, etc.
- Provide an online access to supervisor/ exam section to record result of thesis and viva to prepare award list (results).
- Facility to handle students migrated to and from other institutes.
- Facility to handle course equivalency of migrated students.
- Support/Flexibility for change in university semester by laws.
- Registration, Enrollment, roll number and result support for private and affiliated colleges students.

4.1.10 Outcome Based Education:

Outcome-Based Education (OBE) is an educational evaluation system that bases each part of an educational system around goals (outcomes). By the end of the educational experience, each student should have achieved the goals/ outcomes.

The proposed system should support the following functions and features:

- Facility to define Program Educational Objectives (PEOs), Program Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs) for numerous batches of programs.
- Facility to append and update PEOs, PLOs and CLOs for single and collective courses within threshold limits.
- Facility to submit the OBE results for single and multiple courses.
- Facility to define KPIs for batches

- Facility in Grade-book to show CLO and PLO Scores
- Facility to generate numerous reports as per FATA UNIVERSITY, HEC and relevant accreditation councils' requirement.

4.1.11 Curriculum Module

The salient features of the module should include but not limited to the following:

- Facility to add department wise course code and name with number of credit hours and course type (regular, non-credit, etc.)
- Facility to configure batch scheme of study with course code, course credit hour, passing marks, course type (regular, non-credit, etc.), optional or core course.
- Facility to attach teachers with courses offered in the semester of the specific batch.
- Facility to enter course syllabus/ outlines along with recommended books.
- Facility to enter course composition such as theory, lab, project, assignments, quizzes, etc.

4.1.12 Degree/ Transcript Module

The salient features of the module should include but not limited to the following:

- Maintain student application status for issuance of required certificate or degree
- Maintain stock and movement of blank copies of transcripts, provisional certificates, degrees and distinction certificates
- Maintain issued Transcript, Provisional Certificate, Degree and Distinction Certificate along their numbers records of a student
- Integration with Student Financial Module to ensure that students' outstanding dues have been cleared and fee for degree/ transcript has been paid.
- Facility to maintain history of issuance of certificate to the student i.e. original, duplicate, etc.

4.1.13 Attendance Module

The salient features of the module should include but not limited to the following:

- Attendance module should be integrated with the electronic machine such as biometric or Radio-Frequency Identification (RFID) machine.
- System should maintain the attendance of students and faculty members of each class.
- Facility to rectify data fetched by the attendance machine by the authorized personnel.
- Facility to integrate with the Timetable & Class Scheduler module to record class-wise attendance of teachers and students.
- Facility to record the check-in and check-out times of teachers, students, employees, etc. at entry and exit points of the university through swipe cards and electronic barrier gates (i.e. tripod, flap, etc.).

4.1.14 Teachers' Portal / Learning Management System (LMS)

The salient features of the module should include but not limited to the following:

- The Teacher's Portal should be integrated with other core module of CMS to perform the teacher's specific tasks.

- Facility to record attendance entry by classes.
- Facility to enter marks of each exam.
- Facility to auto lock of lecturer exam screen once the marks entry has been posted.
- Facility to view complete student profile.
- Facility to create e-learning courses.
- Facility to develop e-learning subject, quiz and online exam.
- Facility to upload multimedia e-learning contents.
- Facility to upload e-learning content assignment by the students.
- Facility to monitor student upload of homework and assignment, track by time.
- Facility to send messages and chat with student and University administration.
- Facility to raise expense claims, demands, etc. and monitor its status.

4.1.15 Students' Portal / Learning Management System (LMS)

The salient features of the module should include but not limited to the following:

- Students should access the portal using their own login id and password.
- Facility to view and update the following information
 - Email/ contact number/ mailing address
 - View academic calendar
 - Register in a program
 - Register for an exam
- View program/ subjects registered
- View exam results
- View attendance
- View event calendar
- Access online library
- Print fees challan
- Print grade report/ transcripts
- View payment information such as invoice
- Provision to generate various request such as request for transfer of program, request for hostel transfer, etc. and monitor its status.
- Facility to conduct online quizzes and exams.
- Facility to download homework and assignments, lectures and e-learning contents.
- Facility to submit homework and assignments to lecturer.
- Facility to send messages and email to instructors.
- Facility to distribute class-related content through forums and message boards
- Facility of chat rooms so that students can discuss with each other or teachers can quickly review information.
- Facility to participate in a survey conducted by the university.
- Facility to access portal through mobile application of the university.

4.1.16 Research and Final Year Project (FYP) Module

The salient features of the module should include but not limited to the following:

- Facility to enroll students for final year projects and thesis.
- Facility to approve proposals and thesis by evaluation committee.
- Facility to define schedule for proposal, presentation and final reports
- Facility to record FYP, thesis, research project and publications by faculty members
- Facility to record grade for completed projects and thesis
- Facility to record feedback for proposal/thesis, presentation and reports

- Facility to record and archival of proposal and thesis for undergrad and postgrad students
- Integration with central repository/ achieving system for storing project related material
- Facility to record payments of both local & external examiners Payable system
- Facility to generate alerts and reports for enrolled students and users
- Facility to attach images/ MS Office files along with submission of proposal and other requirements

4.1.17 Feedback/ Survey Module

The salient features of the module should include but not limited to the following:

- Facility to define custom surveys such as teacher's evaluation, course evaluation, etc. as required by the HEC or any other bodies.
- Facility to define rating scales, score and weightage of questions.
- Facility to host survey online and invite audience to participate through email / SMS.
- Facility to produce analysis of survey data through Business Intelligence (BI) tools.
- Facility to specify time for collecting feedback and subsequent reminders.
- Facility to export data of the collected feedback in CSV/Excel/ or any other format.
- Facility to generate status of pending and completed feedback.

4.2 User Management System

The salient features of the system should include but not limited to the following:

- Facility to maintain user profiles.
- Facility to process requests for granting/ revoking access rights.
- Facility to manage access rights at the following levels:
 - Modules
 - Menu
 - Setups
 - Transactions
 - Reports
 - Data
 - Button
- Facility to maintain multi role base access i.e. need to know basis like edit, entry, view, entry & view, edit & view etc.
- Facility to define user groups to define roles and access rights. Once a user is assigned to a particular group all the access rights given to group can be assigned to the particular user.
- Facility to control access by campus wise, faculty wise, department wise, section wise, etc.
- Facility to log users along with their activities with date and time stamp.
- Facility to generate logins in batch mode, where multiple logins can be generated for multiple students at once.
- Facility to allow user to change passwords
- Facility to define policies related to password strength, password change.
- Facility to grant/ revoke/ modify access rights.
- Facility to maintain audit log of all activities performed by a user.

4.3 Enterprise Resource Planning

4.3.1 Hostel Management System

The system will be used by the Provost and will support activities that assist student for seat allotment process specific to all applicants. The salient features of the module should include but not limited to the following:

- Facility to create setups of male/ female hostel blocks, floors, rooms and their description with type, capacity and detail of other item in a room, room charges, details of supervisory staff of hostel and mess such as Warden, Assist. Warden, Head Bearer, Bearer, etc.
- Facility for the students to apply online for hostel and other services.
- Facility to define merit criteria for hostel allotment.
- Facility to generate hostel Merit list
- Facility to configure room allocation rules and automatically allot rooms to students based on room size, type and capacity.
- Facility to maintain the room status whether it is occupied or vacant.
- Facility to manage the reallocation of room to student with semester wise and maintains attachment detail of the same.
- Facility to maintain the details of fee paid by the students.

- Facility to impose penalties and fines on students based on disciplinary issues
- Facility to manage the student clearance with respect to vacant date and submission of other related item of the room.
- Facility to maintain the information of visitors with respect of student and room.
- Facility to manage and control hostel assets efficiently and track hostel consumables and durables by location, value, date and allot codes using RFID or barcode scanners.
- Facility to maintain details of meals and accounts of each student.
- Facility to create week wise menu.
- Facility to automatically calculate mess charges, track mess expenditures and other transactions.
- Facility to monitor monthly expense of mess, kitchen stock, etc.
- Facility to generate monthly mess bill of each student.
- Facility to record attendance through check-in and check-out times of students at entry and exit points of the hostel and mess by swipe cards and electronic barrier gates (i.e. tripod, flap, etc.)
- Facility to track missing students in the hostel and notify parents by email/ messaging.
- Facility to integrate with complaint management module to lodge any complaints.
- Facility to generate reports of hostel for hostel officials such as hostel wise, floorwise occupied and vacant rooms list, students list availing mess services, non-payers list, etc.

4.3.2 Workflow & Data Archiving System

4.3.2.1 File Tracking and Workflow System

The salient features of the system should include but not limited to the following:

- Facility to define organizational structure, campuses, departments, sections, etc.
- Facility to define various roles and designations such as VC, Dean, Director, Chairman, Registrar, etc.
- Facility to assign users with their corresponding designations.
- Facility to define approval hierarchy for different types of transactions.
- Facility to define different stages for different types of transactions.
- Facility to map workflow stages with the transactions recorded in the core systems.
- Facility to define approval limits.
- Facility to define service level (time) for each role for the completion of each task assigned to him.
- Facility to raise demand to initiate process where the user is allowed to enter data like date, file number, concerned person/organization, remarks, noting, processing stages, etc.
- Facility to attach scanned documents with each stage/ process and should be stored in archiving system.
- Facility to send and receive any communication among the users engage in the process with read receipt.
- Facility to store document reference of transactions recorded in the core systems with

- The stages defined for each case/ demand. Alternatively, the user will select the demand reference while creating transaction in the core system.
- Facility to define additional charge in case of the non-availability of primary responsible person.
- Facility to see any action item marked to him for any further action.
- The user is also able to perform the following actions:
 - Add notes
 - Prepare Drafts
 - Recommendations, etc.
- Facility to generate alerts in case the tasks is not completed in the due course of time.
- Auto closure of case/ demand upon completion of last stage.
- Facility to monitor the status of each case/ demand raised by the requesting person.
- Facility to integrate with the mobile application of the university.

4.3.2.2 Document Imaging & Archiving System

Document Imaging and Archiving system will be integrated with the File Tracking and Workflow system to capture and store the documents with reference to various stages of each case/ demand.

- Facility to scan images along with tags such as document case/ demand number, subject, date & time, keyword, etc.
- Facility to attach other documents such as PDF, Word, Excel Sheets, etc.
- Facility of auto-indexing to facilitate search.
- Facility to retrieve documents based on different search tags define in the system.
- Facility to scan documents using Optical Character Recognition (OCR) technology, so that search can be performed on the text.

4.3.3 Financial Management System

The Financial Management System (FMS) should be implemented for the following functional areas:

- All Campuses Accounting
- GP Fund Accounting
- Benevolent Fund Accounting
- Lab Testing Fund Accounting
- Consultancy Fund Accounting
- Pension Fund Accounting
- Any other entities operating independently

4.3.3.1 General Ledger

The General Ledger system (GL) will be fully integrated with all other modules having financial effects such as Payables, Receivables, Human Resources Management System (HRMS), Fixed Assets, etc. The integration will be done to the extent that any financial transaction generated by other modules, will be periodically posted into the

control accounts in the GL. The GL system will have the following salient features:

- The General Ledger should support cash basis/ double entry system.
- Provision to maintain financial accounts of multiple campuses/ entities/ employee funds within a same database thereby helping the user to consolidate the financial information

at Group level.

- Facility of maintaining multiple years of data jointly allowing previous and current year's data to be accessed simultaneously.
- Handling of multi-level chart of accounts with a flexibility of defining user specific structure of the chart of accounts in line with the requirements set-out by Project to improve Financial Reporting and Auditing (PIFRA) by devising new accounting model.
- Providing multi-level cost center structure to record transactions with reference to different segments like department, campuses, etc. to produce segment wise analysis.
- Calendar with user-defined financial periods according to reporting requirement of the FATA University.
- Facility to define standard vouchers with customized printing options.
- Facility of standard transaction narration on single keystroke for each voucher type.
- Full screen-editing facility while entering data.
- Provision to define month end vouchers as 'reversible' at the opening of subsequent financial period.
- Providing options whether to maintain automatic numbering of all documents or user entered document number.
- Powerful password protection for all activities.
- Facility to lock entered data to protect against any changes.
- Provision for standard/ recurring vouchers.
- Flexible user defined on-screen inquiries to analyze the entered vouchers with different logical operator and filters.
- Automatic calculation of excess/ shortage of funds at year-end (temporary or permanent) and update of user defined profit account with corresponding printing of Journal Voucher.
- Period-end and year-end processing and generation of year-end voucher for closing balances of accounts.

General Reporting

- Option to print the voucher as soon as its entry has been completed.
- Printing of transactions list, voucher type wise.
- Printing of trial balance at any level of the chart of accounts with data range selection.
- Printing of general journal, ledger activity and ledger balances.

Financial Reports

- Month-wise income and expense report, with budget comparatives.
- Comparison of data of different periods
- Facility to design user-defined report formats through the report writer including balance sheet, profit/ loss statement, income / expense statement.
- Facility to set up cash flow statement through the report writer
- Cost center definition enabling cost-center wise reporting.

4.3.3.2 Budget Module

The Budget module is designed to allocate the financial budgets at group or detail account code level, in accordance with the FATA University requirements. The system will also maintain track of budget revisions during a financial year. The proposed module will have the following salient features:

- Facility to enter annual budgets for different heads of account and campuses with a budgets as well as recurring budgets.
- Facility to allocate budget figures with reference to business segment i.e. cost center, department, campuses, etc.
- Facility to copy previous year's budgeting values or get new allocation using a factor of previous data to minimize the data input efforts.
- Facility to revise the budget before completion of the year.
- Facility to print report for each head of account comparing the actual amount therein with the budgeted figure and the last year's figure.
- Facility to view consolidated budget covering all the departments and campuses.
- Facility to import budget data from the spreadsheets.
- Facility to compare budgets from periods of different years for a head of account and their actual for different reports including profit and loss statement, balance sheets, cost center-reports and other user-defined reports.

4.3.3.3 Accounts Receivable

The Accounts Receivable module will cover the transactions of parties, employees other than students. The module should be fully integrated with the General Ledger system, where only control accounts will be maintained for trade debtors. At the end of every day/ or every month the control account in the General Ledger will be updated based on the detailed transactions in the accounts receivable. The main features of the module are as follows:

- Facility to enter invoice into the system thereby producing a corresponding accounting voucher into the general ledger system to book the financial effects in customer ledger
- Maintenance of customer account balances
- Facility to knock-off invoices with cash receipts
- Facility to maintain details of outstanding invoices
- Facility to enter credit and debit notes to handle effects of sales returns, bad debts, replacements etc.
- Facility to incorporate adjustment notes

Reports

- Details of outstanding invoices
- Printing of customer ledger/ customer statement/customer balances report
- Ageing analysis of receivables Tax reporting

4.3.3.4 Accounts Payable

The Accounts Payable module should be linked with the inventory system to validate all the purchases. The user will be able to enter supplier's invoices and record payable liabilities. The system should also be integrated with the General Ledger system to book accounting effects, resulting from the entry of supplier invoice, debit/credit notes etc. The system should provide a facility to make payments against the payable liabilities and make necessary deductions. The main features of the system are as follows:

- Facility to enter bill/ invoice containing demand reference, supplier reference, payment and tax deductions.
- Facility to enter supplier invoice along with other costs breakups to account for purchases and accounts payable.

- Facility for the Purchase department to validate and approve invoices on the computer.
- Maintaining track of local and foreign purchases.
- Maintain history of foreign currency rates used for the purchase of imported items.
- Facility to define approval cycles to authorize payments initiating from different authorities such as VC, Chairman, Heads of Departments/Sections, Pre-audit, etc.
- Generating and Printing of Cheques

General Reporting

- Details of outstanding bills/ list of payments to be made during each week
- List of payments due in the next number of days and the related cash outflow requirements
- Aging analysis for a given set of days
- Printing of supplier ledger and balances
- Sales tax and other deductions reports

4.3.3.5 Cash Management Module

The Cash Management module is designed to analyze the future inflow and outflow of cash generated from the accounts receivables, payables, etc. This module also includes preparation of bank reconciliation, maintenance of multi-currencies, computation of forex gain/ loss etc. The proposed module will have the following salient features:

- Facility to setup banks, bank accounts, cash accounts, impress accounts, etc.
- Facility to prepare payment voucher on the basis of supplier invoice.
- Handling of supplier payment by incorporating withholding tax according to the nature of services and amount limit.
- Facility to link payment with available budget.
- Facility to prepare and maintain cash receipts
- Facility of advance payments from customers and adjust this at the stage of issuing invoices.
- Providing a reporting lines for evaluating future cash inflow and outflow, thereby giving a base for future fund management in terms of investment, debt service, pay off liabilities, etc.
- Provision to prepare bank reconciliation to evaluate exact cash position at different bank(s) accounts of the FATA University.
- Facility to compute forex gain/ loss upon receipt of customer dues and payment of outstanding amounts.
- Facility to print cash, bank books, ledgers, etc. for given range of dates.

Tax Reporting

- Tax payment receipt(challan)
- Monthly statement
- Annual statement
- Supplier Certificates

4.3.3.6 Fixed Assets Module

Fixed assets system maintains complete record of all assets owned by the FATA University and records the movement of these assets from one department to the other and from one location to other. The system also calculates year-end depreciation and determines the written down value (WDV), at the time of disposal to calculate the gain/loss on disposal of assets. The salient features of the Fixed Assets system are given below:

- Maintain comprehensive database of assets using multi-level asset codes for analyzing group and detail level information.
- Multi-location assets maintenance
- Department-wise assets management
- Disposal of assets using various modes of asset disposal.
- Provision to write-off assets
- Provision for different type of adjustments i.e. revaluation, re-classification etc.
- Transfer of asset to other locations/ departments.
- Breakup for assets costs either acquired locally or imported
- Maintains the history of previous years' schedules
- Fixed assets register for individual items
- Edit lists and customized reports
- Integration with the General Ledger system

Depreciation

- Maintaining different methods of depreciation calculation like straightline, reducing balance etc.
- Depreciation methods setup at group level as well as at individual level
- Provision to define depreciation policies regarding acquisitions and disposals
- Preparation of depreciation schedules.
- Cost center-wise depreciation allocation
- Initial and normal depreciation rate (if different). Initial depreciation values are for the first year of newly acquired assets
- Number of shift days (if applicable) at group level
- Provision for calculating shift based depreciation.

Reports

- Fixed assets register
- Depreciation schedule – financial and tax
- List of assets location-wise, department-wise
- List of transfers/ disposals/ additions
- List of revalued assets/ re-classified assets/ written-off assets

4.3.4 Procurement System

The Procurement system will be used to maintain all activities related to purchase monitoring and execution, starting from the entry of the requisition, getting quotations from the market and preparing purchase orders to communicate with suppliers. The proposed system will be integrated with the Inventory system as required to maintain supply chain. The system will also be integrated with the Payable system to share purchase order data for the preparation of supplier invoice. The main features of the system are as follows:

- Facility to maintain supplier database containing name, address, credit period, credit limit and their origin like foreign and local etc.
- Facility to enter requisition by each concerned department.
- Requisition generated by various departments would be accessible to Purchase department for requesting quotation or calling tender for the procurement of goods and services depending upon the value of goods or services.
- Facility to generate customized reports related to purchase transactions.

Tendering

- Facility to enter various stages of tender such as development of RFP, publishing, opening, awarding, etc.
- Facility to handle single stage and two stages tendering process as per Khyber Pakhtunkhwa Public Procurement Regulatory Authority (KPPRA) and PPRA rules
- Facility to record bidders applied for providing goods or services
- Facility to shortlist bidders based on their initial Expression of Interest (EOI) submission
- Facility to handle different selection methods such as Quality and Cost Based Selection (QCBS), least cost, etc.
- Facility to record tender fee with respect to each bidder
- Facility to evaluate each bid and record scores of the bidders
- Facility to award contract to the successful bidder

Procurement of Low Value Items (other than tendering)

- Provision to enter quotations received from suppliers.
- Facility to generate comparative statement based on the quotations received from suppliers.
- Facility to generate purchase/supply orders against quotations received from suppliers.
- Integration with the Inventory system to maintain the status of goods received and outstanding quantities against each purchase order.

4.3.5 Inventory System

The Inventory System is designed to manage movements of stock i.e. receipts of materials from supplier, issuance of materials to the user departments, materials returns, etc. The system will maintain built-in controls related to stock management like re-order level, lead-time, re-order quantity, etc. The Inventory system will be integrated with the Purchase system, such that all the Goods Received Notes will be linked with Purchase Order to evaluate quantity ordered, quantity received and partial status of purchase orders. Efficient management of stocks by maintaining stock monitoring parameters like minimum and maximum levels, re-order quantity and

lead time.

- The total cost of an item can be maintained as a break up of various cost heads, for instance purchase price, freight, custom duty, etc.
- Valuation of stock based on weighted average cost.
- Preventing shortfall by maintaining a minimum level for all items in stock.
- Multiple stock adjustments and reports on their quantitative and financial effects
- Producing financial/quantitative reports of the stocks procured, issued and in hand.
- Different characteristics can be defined for different groups of items. This is in addition to the levels of codes maintained in the system.
- Facility to maintain multiple warehouses. Each warehouse can have its own Goods Receiving Notes, Material Issues, Sales Invoices and other transactions.
- Facility to enter quantitative information separately by Stores staff and financial valuation separately by the Finance department for each Goods Received Note (GRN) and Stock Transferred Note (STRN).
- Facility to define item types such as capital goods, consumable items, etc. Upon entering the GRN, the system should update the acquisition in the Fixed Assets system.
- Materials valuation linked with the prices in PO/ supplier invoice/ payment voucher.
- Quality Control (QC) inspection and facility to maintain stock as useable, damaged/ expired
- Providing the management with consumption pattern of stock items
- Provision to maintain separate buying units and issuing units and their conversion
- Material Issue and Material Return Note to manage stock movement between store and departments.
- Stock transfer note to move stock between various warehouses.
- Stock adjustment note for different type of errors like excess/short stock
- Facility to return damage stock to the supplier and automatic generations of debit note to supplier ledger balances.
- Cost center-wise storage and issuance of stock.
- Facility to generate customized reports related to inventory transactions.

4.3.6 Human Resource Management System

The salient features of the system should include but not limited to the following:

4.3.6.1 Employee Module

- Facility to enter employee personal information
- Facility to enter academic record
- Facility to enter date of joining or leaving
- Facility to enter details of employee family
- Facility to record medical history
- Facility to enter multiple addresses
- Facility to enter status of annual leaves

4.3.6.2 Job Profile

- Facility to create areas of operations such as Academic, Administration, Accounts, Provost, and HR etc.
- Create uniform Job titles to be used in whole organization such as VC, Dean, Registrar, Chairman, Director, Superintendent etc.,
- Facility to define government grade structure and pay scale to accommodate salary
- Create Job positions such as VC, Chairman, Director, Superintendent etc.,
- Facility to define job description by attach duties, responsibilities, skill, qualifications with the Job position
- Define Job Evaluation Factors (Age, Qualification, Experience)

4.3.6.3 Recruitment and Selection

- Resources planning to define all the sanctioned posts department-wise/university-wise
- Facility to view status of sanctioned positions such as vacant position, positions to be vacant, etc.
- Facility to generate request for the hiring of a position.
- Facility to publish advert of vacancies on the website
- Facility to define hiring criteria.
- Facility to create and upload CVs using candidates own login id, password.
- Facility to search best candidate from the CV database based on the criteria defined in the system and custom filters.
- Search of suitable personnel from the database of resumes based on:
 - Skills requirements
 - Educational requirements
 - Experience requirements
 - CV text search for uploaded CVs
- Facility to shortlist the selected candidates and send them call letters for interviews from the system.
- Facility to define different stages for selection such as selection board, syndicate etc.
- Facility to schedule interviews/ assessment of the candidates.
- Facility to conduct tests/ assessments/ interview sheets
- Facility to generate offer letter to the selected candidate

4.3.6.4 Appraisals/ Performance Management

- Facility to configure performance evaluation form for different grades
- Facility to record details of performance evaluation of the concerned HOD.
- Facility to define various stages of review, recommendations and approvals
- Schedule reviews and intimate stakeholders such as assesses, assessors
- Perform assessments based on the assessment workflow configured earlier.
- Recommend (review and amend system generated) compensations
- Review and finalize compensations
- Facility to generate promotion letter and update the grades and pay scales.

4.3.6.5 Employee Self Service (ESS) Module

This module should be designed to serve as an employee interface to the HR department. This module should have the following features:

- Online access to:
 - Pay slips
 - Outstanding Loans
 - Outstanding Leaves
- FATA University procedures and policies
- Interfaces to file leave applications, loan applications and approvals should also be possible
- Provisions for notice board, employee feedback, newsletters and connecting other internal modules, where required.

4.3.6.6 Housing and Accommodation Module

The salient features of the module should include but not limited to the following:

- Facility to maintain record of all housing units owned by the FATA University such as location, category, covered area, number of rooms, number of washrooms, other amenities, etc.
- Facility to register request for the allocation of house/ hostel rooms.
- Facility to create a waiting list of all those who applied and case has been approved for accommodations based on the rules defined in the system.
- Facility to allocate accommodation to the applicants containing applicant name, tenure, terms and conditions, etc.
- Facility to deallocate accommodation upon the retirement or the will of the occupants.

4.3.7 Payroll System

Payroll system should have a facility to set up employees' master file and the salary structure for each employee in terms of monthly allowances and deductions. The system should maintain the location-wise/department-wise employee cost thereby enabling the management to analyze the payroll cost contribution with reference to each department/ business unit. The effect of these transactions should be transferred to General Ledger system electronically.

The system should also provide a loan module, which will maintain a track of various loans given to the employees by the FATA University and will automatically make loan deductions according to the loan terms set in the system.

The payroll system should maintain track of leave record of each employee, in terms of leaves availed and leaves outstanding, and will automatically calculate the deductions for 'leave without pay'. The module wise features of the system are as described below:

4.3.7.1 Basic Salary Module

- Employees should be identified by unique numbers allotted to them and the system

maintains the personal information of each employee, like *employee's name, father's name, address, department, designation, location, date of joining and confirmation, date of leaving (for employees who have left), grade, National Tax Number and National Identity Card Number, eligibility for Employees' Old-Age Benefits Institution (EOBI), Social Security, General Provident Fund, etc.*

- Facility to define government basic pay scales for each grade to compute allowances, annual increase.
- Facility to revise basic pay scales as and when required.
- All allowances offered to the employees and deductions made from their salaries are user-defined in the system.
- Allowances and contributions should be computed automatically based on formulas defined by the users as per the FATA UNIVERSITY policy.
- The effect of any changes in the allowances is immediately passed on to tax module and the system computes the tax automatically.
- Non-salary benefits offered to the employees should also be maintained by the system.
- The effect of the number of days not worked during the month is passed on the net amount of salary payable to that employee once these have been entered.
- Provision to split an employee's net salary for remittance to multiple banks.
- Printing of Pay-slips.
- The Basic Salary module should be integrated with Workload module to compute and make payments of the extra work load (academic and administrative).
- The following reports should be produced from the system:
 - Employee's personal details
 - List of employees: Department / location / designation wise
 - List of employees joined and left during the month.
 - Department-wise and grade-wise strength
 - Monthly payroll sheet by employee/department/location
 - Departmental summary of the salary paid
 - Annual payroll sheet: detailed and summarized
 - List of employees paid by bank and cash
 - EOBI, ESSI, education CESS and Group Insurance reports (monthly and annual) for the contributions made by the FATA University on behalf of its eligible employees.
 - Facility of customized reports generation.

4.3.7.2 Loan Management Module

- This module should keep a track of loans disbursed to employees, their recovery in installments and the balance amount payable.
- Loans of various kinds should be maintained, such as car loan, house loan, loan against PF, revolving funds, etc.
- Facility to setup different types of loans having different installment plans.
- Both interest based and interest-free loans should be maintained.
- Once the installment per month has been decided, the system keeps deducting the same amount regularly in the subsequent months until the total loan has been recovered or the installment amount has been changed.
- The system should have provision for lump sum payment.
- Monthly and annual loan register

4.3.7.3 Leave Management

- Maintenance of employees' leaves in terms of leaves allowed, leaves availed and

leaves outstanding.

- The actual dates when the leaves were availed can also be maintained.
- The effect of days not worked in the month (leaves without pay etc.) is reflected on the salary of that employee.
- Monthly and annual leaves register can also be produced.

4.3.7.4 Income Tax Module

Income Tax module should compute tax liabilities based on the latest tax rules and produce the following report:

- Income tax computation
- Monthly/ quarterly income tax return
- Salary certificate printing as per government requirement
- Income Tax Statement under the relevant sections
- Facility to produce tax report in a format prescribed for e-filing by the FBR

4.3.7.5 Bonus Module

- Bonus module should work out the annual bonus based on detailed working of average basic salary and the bonus rate. Bonus should be calculated on the basis of the criteria defined by the user, which may be parameters such as:
 - Bonus rate
 - Category of employees
 - Designation
 - Department
 - Period of service of the employees
 - The allowances that would form the basis of computation of bonus
 - Provision to pay more than one bonus per year
 - Provision to define formula for calculations of bonus amount based on configured allowances and specified rates

4.3.7.6 General Provident Fund Module

- The module should compute the amount of provident fund to be deducted for employees who are members of the fund.
- Both employees and employer's contributions are maintained for each member employee as per the percentage decided. The accrued provident fund for each member is also maintained.
- The system checks that loans taken against provident fund do not exceed the accrued value of GPF for that employee.
- Printing of GPF ledgers for each member employee.
- Monthly/ Annual reports of contributions by the members and the FATA University are also printed.
- The users can also get report from the system for the monthly allocation to be done for Provident Fund.
- Facility to disburse the profit amongst the members of the fund in accordance with their contributions as per the University Rules.
- This module should be integrated with the GL system and GPF funds accounting system to book the financial effects.

4.3.7.7 Benevolent Fund Module

- The module should compute the amount of benevolent fund to be deducted for employees who are members of the fund.
- The system checks that grant taken against benevolent fund do not exceed the limits set- out for different categories by the university.
- Printing of benevolent fund ledgers for each member employee.
- Monthly/Annual reports of contributions by the members and the FATA University can also be printed.
- The users can also get report from the system for the monthly allocation to be done for benevolent Fund.
- Facility to disburse the profit amongst the members of the fund in accordance with their contributions if the University Rules permit.
- This module should be integrated with the GL system and benevolent funds accounting system to book the financial effects.

4.3.7.8 Pension Module

- The system should provide facility to calculate pension based on formula as per the University Statutes/Rules.
- Provision to enter opening balances and define contribution of employee and employer on the basis of basic pay and other allowances.
- Facility to record nomination forms submitted by the retired employee.
- Facility to disburse pension through payment system by making cheques or online.
- Facility to suspend pension or transfer the rights to the legal heirs as per the formula.

4.3.7.9 Final Settlement Module

- This module should compute the terminal benefits for the employee who leaves the organization based on the following parameters:
 - Computation of leaves encashment
 - Computation of notice pay (either side)
 - Deduction of balance loan amount recoverable
 - Deduction of tax recoverable form the employee
 - Computation of salary for the days worked during the leaving month.

4.3.8 Business Intelligence (BI) System

4.3.8.1 Data Warehousing

- Facility of data warehousing and data cubes based on internal database as well as external databases.

4.3.8.2 Business Intelligence (BI) Tools

- Facility to create Key Performance Indicators (KPIs) for comparing benchmark values verses actual outcomes.
- Facility to view dashboards for each functional area for the line management and top management such as VC, Dean, Chairman, Registrar, Director Finance, Provost etc. to monitor the performance.
- Facility to filter information based on criteria such as campuses, departments, sections, functional areas, etc.
- Facility to drilldown to navigate from dashboard to supporting reports.
- Facility to generate graphical and statistical reports such as charts, gauge, etc.
- Facility to generate alerts and view tickers in case of any exceptions in achieving KPIs.
- Facility to view dashboard on mobiles, tablets, etc. for Android and IOS.

4.3.9 General Requirements

4.3.9.1 Common Function Requirements

The given requirements are common to all system/ modules and should include but not limited to the following:

- Software should provide a detail audit trail of all the activities and should be equipped with the query analyzer to view any exceptions.
- All reports can be exported in different formats such as PDF, MS Excel Format, Comma Separated Values (CSV), etc.
- Software should provide import data facility through MS Excel, CSV and other machine readable formats.

4.3.9.2 Non-Function Requirements

System Architecture

- Software should be preferably developed in open source technologies.
- The systems should be platform independent and compatible with all the leading Operating Systems such as Microsoft, Linux, etc.
- Systems should be web based and can be accessible from anywhere.
- All the mobile apps/ dashboards should be compatible with Android and IOS platforms.
- System should have single sign-in to access any system/ module.
- System should have unified architecture such that any entity student, employee, department, vendor, cost center, etc. created in one module should be accessible to other modules.
- All systems/ modules should be well integrated with each other to share financial effects and transaction references.
- The software should have a capacity to handle server requests/ web traffic of around 20,000 students and around 3,000 employees'/ faculty members.

System Security

- Systems should have secure communication with SSL (https) or any other latest robust security mechanism.

- All the sensitive information such as student grades, exam data, should be stored in encrypted form in the database.

Data Migration

- Vendor should submit data migration plan to move existing data from the currently implemented UMS to the newly acquired system. The data mainly include the complete students' life cycle maintained in the software.
- The vendor should execute the migration plan once approved by the FATA University.
- The vendor should verify the migrated data with the assistance of the FATA University staff.

Source Code & Updates

- The vendor should hand-over the source code with documentation of all the systems/module developed exclusively for the FATA University.
- The vendor should also provide the development tools, technologies, APIs, etc. for future enhancements by the FATA University
- The vendor should provide updates of any new release from time to time during the agreed maintenance period.
- The vendor should impart training and transfer skills for onward customization and maintenance.
- The original source code of customization made by the vendor shall be the property of the FATA University. The FATA University shall have complete rights to modify and sell the software to other organizations.

Service Levels

- The vendor should specify the service levels for:
 - Fixation of critical and non-critical bugs and errors
 - Response to any queries
 - Time required for maintenance and upgrades
- The vendor should also quote the technical support services charges

Availability

- Software solution should be available for internal users 24 x 7 x 365 with minimal downtime.

Training Manuals

- Vendor should provide online help and user manuals covering each and every option for all the systems and modules discussed above.
- Vendor should provide installation manual.
- Vendor should provide technical documents such as data dictionary, schema, system architecture, DFDs, class diagrams and other necessary documentation for the customization of software.
- All the manuals discussed above should be updated time to time by the vendor.

Trainings

The vendor should impart training to the FATA University project team and the end-users by taking the following initiatives:

- Creation of test environment of the deployed software i.e. Conference Room Pilot (CRP) for software acceptance testing and on-going training.
- Provision of hands-on training to the end-users to allow them to test key processes.
- Train the trainers of the FATA University for their capacity building.
- Train and empower the technical team so that they can add new modules, enhance and customize the existing software according to their needs.

4.3.9.3 General Requirements and Information for Proposal Submission

For a PROPOSER to be considered, FATA University must receive two (2) copies (one original and one photocopy) of the technical proposal & one copy of Financial proposal by **January 18, 2023 at 12:00PM** at the following address:

Treasurer, FATA University, District Kohat, Khyber Pakhtunkhwa Pakistan.

Please also send one printable and searchable PDF copy of technical proposal in a flash drive. All proposals must be clearly marked separately for both technical and financial proposals:

Technical / Financial Proposal “Acquisition and Implementation of CMS and ERP”

Sealed Technical and Financial proposals should be submitted in two separate envelopes placed and sealed in one big envelope (as per single stage – two envelopes bidding procedure).

There is no expressed or implied obligation for the FATA University to reimburse responding PROPOSER for any expenses incurred in preparing proposals in response to this request.

FATA University reserves the right to retain all proposals submitted, and to use any ideas in a proposal regardless of whether that proposal is selected. Submission of a proposal indicates acceptance by the PROPOSER of the conditions contained in this request for proposal, unless clearly and specifically noted in the proposal submitted and confirmed in the contract between FATA University and the PROPOSER selected.

The FATA University shall not bear any cost related to the preparation of proposal as well as any subsequent cost such as pre bid meeting visit cost, etc. incurred by the PROPOSER.

4.3.10 Project Contact

The FATA UNIVERSITY invites you to submit a proposal in accordance with the terms, conditions, and specifications contained in this document. Please submit the proposals by **January 04, 2022 at 12:00PM**. Questions about the project may be addressed to:

FATA University, FR Kohat,

treasurer@fu.edu.pk

CC to:

registrar@fu.edu.pk

vc@fu.edu.pk

The PROPOSER is responsible for ensuring that the email was successfully received. Questions and requests for clarification and/or additional information should be directed via email to the contact above. Any change in response to questions/clarifications will be added to this RFP as an addendum and communicated to the bidder through email.

4.3.11 Project Schedule & Deliverables

The following is a tentative time schedule and deliverables related to the requested ERP and CMS acquisition and implementation project:

Activity	Date
RFP release	December 31, 2022
Pre-bid meeting and site survey	January 09, 2023 at 12:00PM
Proposals Due	January 18, 2023 at 12:00PM
Presentations by firms	Will be notified in due course of time.
Contract awarded, work begins	As per approval of the Competent Authority after final evaluation by the Committee
Submits Inception Report, Project Charter, Project Schedule and WBS	Within two weeks after awarding contract
Fortnightly Progress Reports giving target achieved against planned, targets slipped, causes and recommendations and next targets.	Fortnightly (before close of business of each fortnight)
Submits Gap Analysis Report, Data Migration Plan	To be provided by the vendor
Installation of ERP and CMS software at The FATA University and handing over of training	To be provided by the vendor
Completion of training and UAT at FATA University, FR Kohat	To be provided by the vendor
Data migration, Customization and development of reports	To be provided by the vendor
Completion of 2-months parallel run at The FATA University, FR Kohat and other campuses/Affiliated colleges to verify the accuracy of new system.	To be provided by the vendor
Handing over of source code & related technical documentation as discussed above	To be provided by the vendor

Closeout and handing over and taking over of project	To be provided by the vendor
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Note: The PROPOSER should submit the proposed project schedule giving the deliverables as mentioned above.

4.3.12 Eligibility Criteria for the Firm Applying

This Invitation for Bids is open to reputed firms/suppliers registered with Income Tax and Sales Tax Departments, who are on Active Taxpayer List of FBR, Government of Pakistan and KPRA for supply and provisioning of such services.

Government-owned enterprises in Pakistan may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the FATA University.

Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices. 2% bid security must be attached by the bidder along with their financial proposals, proposals will be considered invalid, in the absence of bid security attached. The bidder should have strong understanding of CMS and ERP and extensive experience with academic institutions of at least medium size university, preferably in public sectors.

The bidder should have completed at least one (01) successful implementations of CMS and ERP in any platform preferably in universities.

4.3.13 Proposal Requirements

The Proposal should include the minimum information requested below in the order listed. Emphasis should be on completeness and clarity of content. Please do not include sales and marketing brochures. Additional information, if provided, should be separately identified in the proposal.

4.3.13.1 Section One – Transmittal Letter

A cover letter (Annex - I, to be furnished with **technical proposal** and Annex –II, to be furnished with **financial proposal**) signed by an official authorized to solicit business and enter into contracts for the PROPOSER. The cover letter should introduce your firm and summarize general qualifications, including the firm's legal entity name, address, email address, phone number of contact person, and short synopsis of the proposal and credentials to deliver the services sought under the RFP.

4.3.13.2 Section Two – Experience and Qualifications

- a) The PROPOSER should describe the company's profile giving details of legal status, services and products offer, number of offices, overall staff strength and other details highlighting the company's profile.
- b) A description summarizing the PROPOSER's experience over the past seven years in performing similar services as listed in this RFP to large academic clients. Please include the year, key scope objective(s), and CMS (along with the list of modules) that your firm implemented, include the names of the project manager, team members and their roles.
- c) The firm's ability to complete the work specified in this RFP and produces the

required products in a timely fashion and the ability to present any necessary reports and recommendations to the University. This section should contain the description of at least one (1) successfully completed project in the last seven (7) years, including the name of public sector educational institution for which work was performed, general description of the scope of work, budget, name and contact information of agency representative responsible for the project.

d) Evaluation of the bids will be conducted in the following Two stages: -

Technical Stage-1 (A): Preliminary Examination

S.No	Description of requirement	Responsive	Non-Responsive
1	Proof of Registration (Certificate of Incorporation)		
2	Proof of successful deployment of CMS system in University		
3	Proof that the PORPOSER is original owner of the software or authorized dealer.		
4	Annual Audited reports of last financial year		
5	Proof of being active tax payer		
6	Authorization letter/ certificate from the principal to market their products along with partnership status.		
7	Client's Reference(s) of similar work experience		
8	CVs of key personnel (along with the certificates)		

Note: FATA University may ask clarification/additional documents other than mentioned above till the opening of Financial Proposal.

The preliminary examination will be conducted on a Responsive or non-responsive basis. Only bids which have been rated "responsive" in the preliminary examination of shall be considered for further evaluation.

Technical Stage-1 (B): Technical Marking

In second stage of technical marking will be done as per section “**selection criteria**”.

The Technical proposals will be evaluated as per prescribed criteria and acquiring 70% marks will be mandatory for technical qualification. The bids which have been technically qualified shall be considered for further evaluation.

Financial Stage-2: Financial/Final Evaluation

- Letter of Bid (Bid Form) as per Annex-II (LETTER OF BID (LETTER OF INTENTION) (To be furnished with financial proposal))
- Price Breakdown schedule as per Annex-III (PRICE BREAKDOWN SCHEDULE) Bid Security in the form of bank draft/CDR.

4.3.13.3 Section Three – Outline Strategies and Options

Outline methodology, planning, design and execution strategies that will result in the analysis, design, implementation, and training of CMS and ERP that are practical to the University. Include a detailed plan for the services to be provided, along with deliverables to be provided at each step, with a corresponding timeline, including meetings with University officials. The work plan should be consistent with the scope of work presented above, however, the PROPOSER may suggest changes where appropriate.

4.3.14 Bid Security

- a) The Bidder shall furnish, as part of its bid, a bid security of 2% of the total bid price in form of bank draft.
- b) The bid security is required to protect the FATA University against the risk of Bidder's conduct which would warrant the security's forfeiture.
- c) Any bid not secured, will be rejected by the FATA University as non-responsive.
- d) Unsuccessful bidders' bid securities will be discharged or returned as promptly as possible.
- e) The successful Bidder's bid security will be discharged upon the Bidder signing the contract and furnishing the performance security or completion of the contract.
- f) The bid security may be forfeited, if a Bidder:
 - i. withdraws its bid during the period of bid validity specified by the Bidder, or
 - ii. does not accept the correction of errors; or
 - iii. in the case of a successful Bidder, if the Bidder fails:
 - o to sign the contract; or

- to furnish performance security or
- to complete the job.

4.3.15 Selection Criteria

A single stage two envelopes procedure will be utilized in evaluating the proposals, with evaluation of the technical proposal being completed prior to any financial proposal being opened and compared. Only those financial proposals of the proposers will be considered for opening that scores 70% marks in Technical Evaluation.

The technical proposal which comprises of Technical Documents and Presentation/Demo shall be evaluated on the basis of its responsiveness to the Term of Reference (TOR)/ Scope of Work.

In the Final Stage, the financial proposals of all the qualified contractors (who scored 70% marks in technical evaluation) will be opened. The Technical qualified bidder having lowest financial bid will be declared successful.

Technical marking will be as per following criteria

Factors	Max. Marks
<p>Relevant ERP implementations experience (Completed projects during Last 07 years)</p> <ul style="list-style-type: none"> • 7.5 Marks for each university completed project (Complete ERP solution) • 4 Marks for each government completed project (maximum 2 projects will be considered) • 3 Marks for each private completed project (maximum 2 projects will be considered). <p>Note: Completion certificate duly issued by the client be provided and Zero (0) Marks will be awarded for irrelevant and partial implementations.</p>	<p>Maximum upto 30</p>
<p>Relevant ERP implementations experience (In-hand projects)</p> <ul style="list-style-type: none"> • 05 Marks for each university project (Complete ERP solution) • 03 Marks for each government project (maximum 2 projects will be considered) • 02 Marks for each private project (maximum 2 projects will be considered). <p>Note: Award /Work duly issued by the client be provided.</p>	20
Proposed Work Plan and Time Line	15
List of Personnel, their Qualification and Experience Qualified Engineers/developers employed in the firm since at least last 2 years-2 marks for each qualified engineer/developer (Proof of experience certificate and degree be given)	10

01 marks per year of Experience since firm's inception.	10
Presentation/Demo	15

4.3.16 Final Evaluation

Final evaluation will be based on lowest financial proposal of technically qualified Bidder.

5 Contract Terms & Conditions

5.1 Inspections and Tests

The FATA University or its representative shall have the right to inspect and/or to test the Software to confirm their conformity to the Contract specifications at no extra cost to the FATA University.

The inspections and tests may be conducted on the premises of the Supplier (Developer) and/or at the final destination. If conducted on the premises of the Supplier, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the FATA University.

5.2 Delivery

Delivery of the Goods/Services shall be made by the Supplier according to project deliverable and set deadline made by the FATA University, District Kohat after award of the contract.

5.3 Payment

The Supplier's request(s) for payment shall be made to the FATA University in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted.

5.4 Delays in the Supplier's Performance

Delivery of the Goods and performance of Services (modules/software/training/documentation etc.) shall be made by the Supplier in accordance with the time schedule prescribed by the FATA University.

If at any time during performance of the Contract, the Supplier encounters conditions impeding timely delivery of the Goods and performance of Services (modules/software/training/documentation etc.), the Supplier shall promptly notify the FATA University in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the FATA University shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.

A delay by the Supplier in the performance of its delivery (implementation and deployment) obligations shall render the Supplier liable to the imposition of liquidated damages, unless an extension of time is agreed upon without the application of liquidated damages.

5.5 Liquidated Damages

If the Supplier fails to deliver any or all of the Goods or to perform the Services (modules/software/training/documentation etc.) within the period(s) specified in the Contract, the FATA University shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, 0.5% of the total amount of the Contract per week, up to a maximum of 10% of the total amount of contract. Once the maximum is reached, the FATA University may consider termination of the Contract.

5.5.1 Performance Security

The successful bidder shall furnish Performance Security as under:

- a) within twenty (20) days of the receipt of the notification of Contract award;
- b) in the form of a Bank Guarantee, issued by a scheduled bank operating in Pakistan, as per the format provided in the Tender Document, or in the form of CDR (Cash Deposit Receipt) issued by a scheduled bank operating in Pakistan;
- c) for a sum equivalent to 10% of the contract value;
- d) denominated in Pak Rupees;
- e) Have a minimum validity period until the date of expiry of implementation period, support period or termination of services, or fulfillment of all obligations under the contract, whichever is later. Performance Security shall not be acceptable with any validity less than the prescribed time period.
- f) The Supplier shall cause the validity period of the Performance Security to be extended for such period(s) as the contract performance may be extended.
- g) The Performance Security shall be payable to the FATA University, on occurrence of any/all of the following conditions:
 - i. If the Supplier commits a default under the Contract;
 - ii. If the Supplier fails to fulfill the obligations under the Contract;
 - iii. If the Supplier violates any of the terms and conditions of the Contract.

If the Supplier fails / delays in performance of any of the obligations, under the Contract / violates any of the provisions of the Contract / commits breach of any of the terms and conditions of the Contract, the FATA University may without prejudice to any other right of action/remedy it may have, forfeit Performance Security of the Supplier.

The Performance Security shall be discharged and returned to the Supplier on his written request within thirty working days following the date of completion of the Supplier's performance obligations under the contract, including warranty/implementation period.

5.6 Termination for Default

The FATA University, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:

- (a) if the Supplier fails to deliver any or all of the Goods or Services

- (modules/ software/ training/documentation etc.) within the period(s) specified in the Contract, or within any extension thereof granted by the FATA University; or
- (b) if the Supplier fails to perform any other obligation(s) under the Contract.
 - (c) if the Supplier, in the judgment of the FATA University, has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this clause:

“corrupt practice” means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

“fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the FATA University, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the FATA University of the benefits of free and open competition.

In the event the FATA University terminates the Contract in whole or in part, the FATA University may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the FATA University for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

5.7 Force Majeure

The Supplier shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

For purposes of this clause, “Force Majeure” means an event beyond the control of the Supplier and not involving the Supplier’s fault or negligence and not foreseeable. Such events may include, but are not restricted to, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

If a Force Majeure situation arises, the Supplier shall promptly notify the FATA University in writing of such condition and the cause thereof. Unless otherwise directed by the FATA University in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

5.8 Termination for Insolvency

The FATA University may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the FATA University.

5.9 Termination for Convenience

The FATA University, by written notice sent to the Supplier, may terminate the Contract, in

whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the FATA University convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

The Goods or services (modules/software/training/documentation etc.) that are complete and ready for shipment within fifteen (15) days after the Supplier's receipt of notice of termination shall be accepted by the FATA University at the Contract terms and prices. For the remaining Goods and services (modules/ software/ training/ documentation etc.), the University may opt:

- a. to have any portion completed and delivered at the Contract terms and prices; and/or
- b. to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Services (modules/software/training/documentation etc.) and for materials and parts previously procured by the Supplier.

5.10 Settlement of Disputes

If any dispute or difference of any kind whatsoever shall arise between the FATA University and the Supplier in connection with or arising out of the Contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.

If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the FATA University or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.

Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods or Services under the Contract.

Arbitration proceedings shall be conducted in accordance with the rules. Notwithstanding any reference to arbitration herein,

- a. The parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
- b. The FATA University shall pay the Supplier any dues.

5.11 Limitation of Liability

Except in cases of criminal negligence or willful misconduct, and in the case of infringement,

- a. the Supplier shall not be liable to the FATA University, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the FATA University and

- b. the aggregate liability of the Supplier to the FATA University, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective items.

Annexures – Bidding Forms

LETTER OF BID (LETTER OF INTENTION)
(To be furnished with technical proposal)

Procurement Ref. No: _____
Date: _____

To
The Treasurer
FATA University, District Kohat

Dear Sir,

Having examined the bidding documents, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply, install, train and commission the Software in conformity with the said bidding documents.

We undertake, if our Bid is accepted, to deliver the services/goods within days from date of award of contract.

We agree to abide by this Bid for the Bid Validity Period specified in the bidding documents and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive. We certify/confirm that we comply with the eligibility requirements as per bidding documents.

Dated this _____ day of _____ 2022

[Signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

**LETTER OF BID (LETTER OF
INTENTION)**

(To be furnished with financial
proposal)

Procurement Ref. No: _____
Date: _____

To:

The Treasurer
FATA University, District Kohat

Dear Sir,

Having examined the bidding documents, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply, install, train and commission the Software in conformity with the said bidding documents for the sum of ____ [*total bid amount in words and figures*] or such other sums as may be ascertained in accordance with the Price Break-down schedule attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to deliver the services/goods within ____ days from date of award of contract.

We agree to abide by this Bid for the Bid Validity Period specified in the bidding documents and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us. We understand that you are not bound to accept the lowest or any bid you may receive.

We certify/confirm that we comply with the eligibility requirements as per bidding documents.

Dated this _____ day of _____ 2022

[Signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

PRICE BREAKDOWN SCHEDULE

1	2	3	4	5	6	7
Sr. No.	Module Description	Country of origin	No. of Licenses	Unit Price (PKR)	Total price (PKR)	Yearly Cost impact
1	Campus Management System					
2	User Management System					
3	ERP					
4	Business Intelligence (BI) System					
	Grand Total =					

We offer to supply, install and commission the abovementioned service(s)/goods(s), in accordance with the terms and conditions stated in your Request for Quotations referenced above.

The validity period of our quotation is: 120 days from the time and date of the submission deadline.

We confirm that the prices quoted above are fixed and firm for the duration of the validity period and will not be subject to revision or variation.

Quotation Authorized By:

Signature: _____

Name: _____

Position: _____

Date: _____

(DD/MM/YY)

Authorized for and on behalf of:

Company: _____

Address: _____

OFFICE SEAL

**(LETTERHEAD OF SUPPLIER/TENDERER/MANUFACTURER) BIDDER
QUALIFICATION STATEMENT**

Name and Address of Tenderer/Bidder

- A. Name of Supplier/Tenderer _____
- B. Address of Head Office _____
- C. No. of Employees/Engineers _____
- D. Date Established and/or Registered _____
- E. Project In-charge _____
- F. Section/Department/Division _____
- G. Tele facsimile Number _____
- H. Email Address _____
- I. Telephone Number _____
- J. Mobile Number _____
- K. National Income Tax No. _____
- L. KPRA Registration _____

We hereby certify to the best of our knowledge that the foregoing statement are true and correct and all available information and data have been supplied and that we agree to show documentary proof thereon upon your request.

Date

Name & Address of the Tenderer

(Signature)

(In the Capacity of)

Annexure - V

INSTALLATION/COMMISSIONING/TRAINING UNDERTAKING BY ORIGINAL EQUIPMENT/SOFTWARE MANUFACTURER

We **(Name of Original Software Manufacturer or Authorized Dealer)**, a manufacturer/ authorized dealer duly organized under the law of **(Name of Country)** and having its principal place of business at **(Address of Original Software Manufacturer or Authorized Dealer)** hereby undertake that we are exclusively responsible for the successful Installation, Commissioning, and Training for the equipment/software offered by us/ our local agent for your Invitation for Bids Reference Number _____ dated _____.

If for any reason, such as travel restrictions imposed by our government etc., we are unable to send our engineers/supervisors to perform the installation, commissioning, and training for our equipment/software at the FATA UNIVERSITY's designated premises, then we are exclusively responsible for all the costs inclusive of all associated expenses for seven (7) days detailed training of at least two (2) technical personnel of the FATA UNIVERSITY at our premises at **(Original Software Manufacturer or Authorized Dealer premises Address)** for each lot secured as per the FATA UNIVERSITY bidding documents.

Any and all costs associated with successful installation, commissioning, and training has been included in our aforementioned quotation.

Date _____

Name & Address of the Original Software Manufacturer or Authorized Dealer

(Signature)

Note: This letter should be on the letterhead of the Original Software Manufacturer or Authorized Dealer and should be signed by a duly person.

Performance Security Form

**Issuing Authority:
Date of Issuance:
Date of Expiry:
Claim Lodgment Date:
(Must be one month later
than the expiry date)**

To: *[name of Procuring agency]*

WHEREAS *[name of Supplier]* (hereinafter called “the Supplier”) has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated _____ 20 ____ to supply *[description of goods and services]* (hereinafter called “the Contract”).

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a bank guarantee by a reputable bank for the sum specified therein as security for compliance with the Supplier’s performance obligations in accordance with the Contract.

AND WHEREAS *[Name of the Bank]* having registered office at *[Address of the Bank]* has agreed to give the Supplier a Guarantee;

THEREFORE, WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of *[amount of the guarantee in words and figures]*, and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limits of *[amount of guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the _____ day of _____ 20 ____.

Signature and seal of the Guarantors

[name of bank or financial institution]

[Address]

[date]

End of Document