

TENDER DOCUMENT FOR ERP SYSTEM

(Bid Ref No. SECY/PPC/ PROCUREMENT, DEVELOPMENT, IMPLEMENTATION, CUSTOMIZATION, DEPLOYMENT, TRAINING AND MAINTENANCE OF CLOUD-BASED UNIVERSITY ERP SYSTEM MCUT/PPC/ERP/02/2026-27)



**Mir Chakar Khan Rind University of Technology,
12 KM Sakhi Sarwar Road, Dera Ghazi Khan.
Contact No. 0332-6208010**

TENDER NOTICE

Mir Chakar Khan Rind University of Technology, Dera Ghazi Khan invites sealed bids from well-reputed, experienced and financially sound software development firms registered with SECP, PSEB, FBR and Punjab Revenue Authority for:

“PROCUREMENT, DEVELOPMENT, IMPLEMENTATION, CUSTOMIZATION, DEPLOYMENT, TRAINING AND MAINTENANCE OF CLOUD-BASED UNIVERSITY ERP SYSTEM”

The procurement shall be conducted through **Single Stage Two Envelope Procedure** in accordance with Punjab Procurement Rules, 2014 (amended).

Activity	Date & Time
Publication on Punjab E-Procurement System	21-10-2026
Pre-Bid Meeting & Live Demonstration (Physical Mode) Mandatory	29-10-2026 (11:00 AM) (Committee Room, Mir Chakar Khan Rind University of Technology Dera Ghazi Khan)
Last Date for Submission of Queries	06-11-2026
Submission Deadline	06-11-2026 (12:00 Noon)
Opening of Technical Proposals	06-11-2026 (12:30 PM)
Opening of Financial Proposals	To be communicated to technically qualified bidders

Important Instructions

1. Bidding documents shall be available free of cost through the Punjab E-Procurement System.
2. Bids shall be submitted electronically through Punjab E-Procurement System before the prescribed deadline.
3. The procurement shall be conducted under the Single Stage – Two Envelope Procedure.
4. Technical and Financial Proposals shall be uploaded separately through Punjab E-Procurement System-.
5. Bid Security amounting to Rs. 50,000/- shall be submitted in accordance with the bidding documents.
6. Conditional, incomplete, unsigned or late bids shall be rejected.
7. Only technically qualified bidders shall be invited for opening of Financial Proposals.
8. The University reserves the right to reject any or all bids under the relevant provisions of Punjab Procurement Rules, 2014.

Mandatory Pre-Bid Meeting and Live Demonstration

Participation in the Pre-Bid Meeting and Live Demonstration is mandatory for all prospective bidders.

Each bidder shall demonstrate a live, fully functional ERP System before the Technical Evaluation Committee. The demonstration shall cover the major academic, administrative, examination and financial functionalities of the proposed solution.

Submission of brochures, screenshots, PowerPoint presentations, conceptual designs, mock-ups or prototypes shall not be considered as compliance with this requirement.

Failure to participate in the Mandatory Live Demonstration shall render the bidder ineligible for further participation in the procurement process.

INVITATION FOR BIDS

PROCUREMENT, DEVELOPMENT, CUSTOMIZATION, DEPLOYMENT, IMPLEMENTATION, TRAINING, HOSTING AND MAINTENANCE OF ERP SYSTEM

Tender Reference No. MCUT/PPC/ERP/01/2026-27

Mir Chakar Khan Rind University of Technology, Dera Ghazi Khan (MCUT), invites sealed electronic bids from reputable, experienced and financially sound software development firms duly registered with SECP, PSEB, FBR and relevant tax authorities for the Procurement, Development, Customization, Deployment, Implementation, Training, Hosting and Maintenance of an integrated ERP System.

The procurement shall be conducted through **Single Stage – Two Envelope Bidding Procedure** in accordance with the Punjab Procurement Rules, 2014 (amended) and through the **Punjab E-Procurement System**.

Procurement Information

Activity	Date & Time
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Technical Evaluation Criteria

Sr. #	Qualification Criteria	Requirement
1	Company must be registered with SECP, copy of registration must be attached.	Mandatory
2	The company must be registered with PSEB, a copy of registration must be attached.	Mandatory
3	Registration of NTN with Federal Board of Revenue (FBR) and having Active Tax Payer status.	Mandatory
4	Registration of General Sales Tax (GST) and having Active Tax Payer status.	Mandatory
5	Submit an affidavit regarding bidders should not be Blacklisted from PPRA.	Mandatory
6	Minimum Two (02) successful Implementation and Completion Certificates of University Level ERP Software	Mandatory
7	Bid Security	Mandatory

Sr. #	Descriptions/Parameters	Marks	Maximum Marks
1	Age of Company/Firm/Corporation	--	10
1.1	Minimum 05 years	05	--
1.2	More than 05 years	10	--
2	Financial Position/ Status	--	10
2.1	Statement Worth of last 3 years (Minimum 10 million)	05	--
2.2	Statement Worth of last 3 years (Above 10 million)	10	--
3	Technical Evaluation of quoted items and Capacity	--	80
3.1	Scope/Specifications conformity/compatibility as per Schedule Requirements	20	--
3.2	Live Demonstration	30	--
3.3	Software Development Team and maintenance after Sales Service (Attach list & CVs): • More than 5 = 5 • More than 10 = 10	10	--
3.4	Project Execution Plan with complete schedule of work for modules completion	20	--
TOTAL		--	100

Non-Functional Requirements

Performance:

- Minimum Page load times, server response times.

Scalability:

- Ability to handle increased load and user growth.

Security:

- Data encryption, secure authentication, protection against common vulnerabilities (e.g., SQL injection, XSS).

Usability:

- User-friendly interface, responsive design.

Compatibility:

- Cross-browser and cross-device compatibility.

Maintainability:

- Code structure, documentation, and use of design patterns.

TECHNOLOGY AND TECHNICAL ARCHITECTURE

The proposed solution shall be developed using modern, industry-standard and widely supported technologies capable of providing a secure, scalable, maintainable, interoperable and high-performance enterprise application environment. The bidder may propose any suitable technology stack that meets the functional, technical, security, performance and integration requirements specified in the bidding documents.

A. Backend Technologies

- Laravel (PHP), NestJS (Node.js/TypeScript), Spring Boot (Java), or any equivalent enterprise-grade, fully open-source application framework.
- Database Management System: MySQL, PostgreSQL, Microsoft SQL Server, Oracle Database or any equivalent relational database management system capable of supporting transactional processing, data integrity, concurrent users, reporting, backup and recovery.
- Application Architecture: Modular, maintainable and secure architecture with appropriate separation of application logic, data access and presentation layers.

B. Frontend Technologies

- User Interface: Responsive, user-friendly and accessible web-based interface compatible with modern desktop and mobile browsers.
- Frontend Framework/Libraries: React.js, Angular, Vue.js, Svelte or equivalent frontend technologies, where required by the proposed architecture.
- Presentation Technologies: HTML5, CSS3, JavaScript and equivalent standards-compliant web technologies.
- Responsive Design Framework: Bootstrap, Tailwind CSS or equivalent responsive design framework.

Mobile Application:

Flutter or any Hybrid technology to support both Android/Iphone apps

DevOps:

- **Version Control:** Git (GitHub/GitLab)
- **Web Server:** Apache/Nginx

Security Measures:

- **Authorization:** Role-based access control (RBAC).
- **Data Protection:** HTTPS, data encryption, and secure data storage practices.
- **Vulnerability Management:** Regular security audits and use of Laravel's security features (input validations)

Cloud Server Specifications:

- VPS Linux based server
- RAM: 8 GB
- Storage: 100 GB SSD
- Processor: 4

Timeline Estimation:

1 Month

Terms of Reference (ToR)

1. Enterprise Software Solution & Customization Architecture

- **Modularity & Flexibility:** The proposed Enterprise Resource Planning (ERP) / Management Information System must feature a modular architecture.
- **Customization Scope:** The Vendor shall provide extensive customization services (workflows, UI/UX, database schema adjustments, and functional enhancements) to align with specific academic and administrative frameworks (e.g., OBE/ERP/Financial modules).

2. Source Code Ownership

- **Complete Source Code Handover:** Upon completion, testing, and sign-off of each deployment milestone, the Vendor must transfer complete, fully commented, and un-compiled source code to the University.

3. Payment Gateway & Third-Party Integrations

- **Integrations:** Direct API integration with commercial banks, State Bank-regulated Payment Service Providers (PSPs), e-Wallets, and automated 1Link/1Bill bill-presentment portals for automated fee collection and reconciliation.

4. Managed VPS Hosting Infrastructure & SLA

- **Infrastructure Provisioning:** Dedicated Virtual Private Server (VPS) / Cloud environment managed directly by the Vendor/ERP Provider.
- **Maintenance & Support:** Complete system administration, operating system updates, database maintenance, periodic backups, and emergency patch deployments under a 24/7 Service Level Agreement (SLA).

5. Contract Award & Bidding Method

- **Single Successful Bidder:** The evaluation will yield a single overall successful bidder (responsible for software, hosting, customization, and source code transfer). If only a single bid is received, it may be accepted provided it satisfies all technical specs, meets financial viability checks, and aligns with PPRA Rule.

6. University's Data Ownership Right

All data generated, stored or processed through the ERP shall remain the exclusive property of MCUT D.G. Khan.

7. Mandatory Live Working Technical Demonstration in Pre-Bid Meeting.

The interested bidders will present a live software demonstration in pre-bid meeting to be held on **28-09-2026** to be held in Committee Room, Mir Chakar Khan Rind University of Technology D.G.Khan to verify that vendors possess real, functional systems rather than unverified pitch decks or mockups under technical evaluation standards.

8. Rejection / Acceptance of the Bid

MCUT D.G.KHAN shall have the right to increase / decrease the quantity of any or all item(s) without any change in unit prices as other terms and conditions of contract. MCUT D.G.KHAN may cancel/reject all bids or proposals at any time prior to the acceptance of a bid or proposal. MCUT shall upon request communicate to any bidder, the grounds for its rejection of all bids or proposals. The MCUT shall incur no liability, solely, by virtue of its invoking Punjab Procurement Rules, 2014 towards the bidders. However, bidders shall be promptly informed about the rejection of the bids.

Annex-A

Scope of Work

**Cloud based ERP System for University of
Mir Chakar Khan Rind University of Technology DGK**

Modules

1. Academics
2. Admissions
3. Students
4. General Accounting
5. Budgeting & Forecasting
6. Asset & Inventory Management
7. Income & Expenditure
8. Procurement
9. Fee Management
10. HRM (Human Resource Management)
11. Examinations with OBE
12. Careers
13. Hostel
14. Website
15. Library
16. CBT
17. QEC (Quality Enhancement Cell)
18. ORIC (Office of Research, Innovation & Commercialization)
19. Faculty Portal with Mobile App (Android/Iphone)
20. Student Portal
21. Audit Para Management
22. Biometric Attendance Management
23. Communication & Email Management
24. e-FOAS (Electronic File & Office Automation System)
25. Security Management

Detailed Scope of Work

1. Academics

The system should be able to manage the academic structure, including courses, classes, and timetables. It should ensure smooth coordination between faculty and students.

2. Admissions

The system should be able to handle the complete admissions process, including

applications, merit lists, and enrolments. It should ensure transparency and efficient processing.

3. Students

The system should be able to maintain comprehensive student records, including personal, academic, and performance data. It should simplify student tracking and management.

4. General Accounting

The system should be able to manage chart of accounting, financial transactions, and accounting records. It should ensure accuracy in financial reporting and record-keeping.

5. Budgeting & Forecasting

The system should be able to handle budget preparation and financial planning as per HEC requirements. It should support effective resource allocation and decision-making.

6. Asset Management

The system should be able to keep track of university assets such as equipment and furniture. It should help in efficient asset utilization and maintenance.

7. Income & Expenditure

The system should be able to record all income and expenses of the university. It should promote financial transparency and support auditing processes.

8. Procurement

The system should be able to manage the purchasing process, including requisitions and approvals. It should ensure controlled and transparent procurement operations. It should also handle all billing processes from procurement to vendor payments.

9. Fee Management

The system should be able to handle student fee collection and records. It should provide automated challans and payment tracking.

10. HRM (Human Resource Management)

The system should be able to manage employee records, attendance, and payroll. It should streamline all human resource processes.

11. Examinations with OBE

The system should be able to control exam scheduling, grading, and result processing. It should ensure timely and accurate evaluation. It should support OBE

12. Careers

The system should be able to manage job postings and career opportunities, streamlining the entire hiring process digitally. It should connect students and alumni with potential employers, enabling seamless interaction between candidates and organizations.

13. Hostel

The system should be able to handle hostel management, including room allocation and resident records. It should ensure organized accommodation management.

14. Integrated Website

The system should be able to manage the university's official website content. It should allow easy publishing of updates and announcements.

15. Library

The system should be able to manage books, issuing, and returns. It should improve digital cataloging and record management.

16. Digital Assessment

The system should be able to conduct online assessments, exams, and quizzes. It should provide automated evaluation and instant results.

17. QEC (Quality Enhancement Cell)

The system should be able to support academic quality assurance by managing surveys, evaluations, and performance assessments.

It should help in continuous improvement through data-driven insights and compliance with accreditation standards.

18. ORIC (Office of Research, Innovation & Commercialization)

The system should be able to manage research activities, projects, and funding within the university. It should facilitate innovation, industry collaboration, and commercialization of research outputs.

19. Teacher Mobile App

The system should be able to provide faculty with a mobile platform to manage classes, attendance, and academic activities. It should enable real-time interaction with students and easy access to teaching resources.

20. Student Portal

The system should be able to allow students to access their academic information, including attendance, results, and schedules. It should provide a convenient way to stay updated and connected with university services.

21. Audit Para Management

The system should be able to manage and track audit observations raised by external auditors. It should record audit paras, assign them to relevant departments, and monitor their responses, compliance status, and resolution progress.

22. Biometric Attendance Management

The system should be able to record employee attendance using fingerprint or facial recognition technology. It should ensure accuracy, prevent proxy attendance, and integrate seamlessly with HR and payroll systems.

23. Communication & Email Management

The system should be able to facilitate internal communication through a centralized email and messaging system. It should ensure secure, organized, and efficient exchange of information across departments.

24. E-FOAS (Electronic File & Office Automation System)

The system should be able to digitize and automate office workflows, including file movement, approvals, and documentation. It should replace manual paper-based processes with an efficient electronic system. This module should enable real-time tracking of files, ensure faster decision-making, and improve transparency by maintaining a complete record of actions and approvals at every stage.

25. Security Management

The system should be able to ensure both digital and physical security within the university. It should provide features such as live surveillance monitoring (CCTV) and security guard duty roster management.

ANNEX-B

FINANCIAL PROPOSAL FORM

BID REFERENCE NO. MCUT/PPC/ERP/01/2026-27

To,

The Convener Purchase Committee
Mir Chakar Khan Rind University of Technology
Dera Ghazi Khan

Having examined the bidding documents, specifications, terms and conditions, we hereby offer to provide the required services as under:

Sr	Description	Unit Cost (Rs.)	Total Cost (Rs.)
1	Procurement, Development & Implementation of Complete ERP System (25 Modules), User Training, Data Migration		
2	Support Service, VPS Server Charges (One Year)		
3	Any Other		

Grand Total (Inclusive of All Taxes)

Rs. _____

Amount in Words:

Signature: _____

Company Seal: _____

Date: _____