VIDYASAGAR COLLEGE FOR WOMEN
39 SANKAR GHOSH LANE
KOLKATA – 700 006

TENDER NOTICE: VCFW/ERP/2024-25 dated 21.10.2024

Sealed quotations are invited from software development firms for the "Development and Implementation of ERP modules for College administration of Vidyasagar College for Women". Quotations should reach college office within 10 days from the date of issuance of this notice between 8.00 AM and 12 noon. Quotation should be in the name of "The Principal, Vidyasagar College for Women, Kolkata – 700 006". Mention the subject of the quotation as "Development and Implementation of ERP modules for College administration against the advertisement published in college website dated 21.10.2024" at the top of the sealed envelope. Detail specification of the work is attached herewith.

Quotations are invited from the software development firms for the design, development, deployment, and support of the following individual modules of a College ERP System.

Tender 1: Student Management System (SMS)
- Scope:

  - - Student registration and admission
  - - Profile management
  - - Course & subject allocation
  - - Roll number and ID generation
  - - Location Locked Attendance tracking
  - - WhatsApp messaging to students

- Deliverables:

  - - Web-based dashboard for admin/staff
  - - Dashboard for students
  - - Web messaging to students through students' accounts.
  - - Role-based access control
  - - Data import/export features
  - - Student filtering based on various criteria

Tender 2: Fee Management System
- Scope:

  - - Fee structure configuration
  - - Automated fee generation
  - - Online payment integration
  - - Payment history and receipts

- - Fine/late fee logic

- Deliverables:

    - - Payment gateway integration
    - - PDF receipts and downloadable statements
    - - Admin view with filters and reports
    - - SMS/email alerts for dues and payments
    - - Auto reconciliation of payments
    - - Settlement data generation based on various parameters

Tender 3: Academic Management System

- Scope:

    - - Subject and course combinations
    - - Class routine and timetable management
    - - Subject teacher mapping
    - - Academic calendar
    - - Location locked attendance
    - - Admin web portal to upload content
    - - Study materials by subject and semester

- Deliverables:

    - - Class-wise routine generator
    - - Grid view of daily/weekly schedule
    - - Option to export routines
    - - Admin and faculty access panels
    - - Subject/Dept specific Routine view in dashboard for both students and faculty

Tender 4: File Tracking System (Web-Based)

Scope:
- **Internal Financial Files** – Related to expenses, procurement, salaries, bills, etc.
- **University Files** – Academic files concerning students and faculty, including affiliation, examination, curriculum, etc.
- **State Government Files** – Files submitted to government departments for grants, compliance, infrastructure, etc.

The admin should be able to:

- Configure file types and authorities
- Assign authority chains dynamically
- Modify flow based on department/file nature

🔧 **Functional Features**

- File registration with metadata (subject, department, urgency, originator)
- Unique file ID generation

- File status (Pending, Under Review, Approved, Rejected, Sent Back, Forwarded)
- Audit log of all movement and updates
- Internal notes/comments section
- Role-based dashboard for each stakeholder
- Alerts & reminders (email/SMS/notification)
- Digital signatures or approval checkmarks
- Attachments (PDFs, Docs, Scans)
- Define file types
- Set authority levels per file type
- Assign/reassign stakeholders
- Monitor flow in real time
- Reports: Pending, In Transit, Completed, Delayed

Deliverables:
- Fully functional web-based application
- Admin panel with all configuration controls
- Staff training (2 sessions)
- Documentation: Technical + User manuals
- Hosting and deployment on college server/cloud
- Maintenance support for 1 year
- Source code handover

Technical Requirements

- Backend: PHP (Laravel/ Codeigniter)/ Node.js
- Frontend: Vue.js / React.js
- Database: MySQL / PostgreSQL
- Notification: Firebase / SMS Gateway integration
- Optional: Digital signature plugin or integration with NIC eOffice (for future extension)

Tender 5: AI-Integrated Query System
- Scope:

  - - Natural language interface for staff to query ERP data
  - - Integration with MySQL database
  - - AI Assistant to generate reports or summaries from queries

- Deliverables:

  - - Backend integration with OpenAI or similar AI API
  - - Secure web interface for interaction
  - - Predefined and custom query builder
  - - Role-based query access

General Terms for All Modules
- - Technology Stack: PHP (Laravel/CodeIgniter), MySQL, REST API, Flutter/Kotlin (for app)
- - Hosting: Compatible with existing college server or suggested cloud server

- - Support: 1-year free maintenance, renewable AMC thereafter
- - Documentation: Full technical and user documentation required
- - Training: Onsite/online training for staff (minimum 2 sessions)
- - Deployment Time: 30 days per module

Sutapa Ray

Dr. Sutapa Ray
Principal
Vidyasagar College for Women

**Principal
Vidyasagar College for Women
Kolkata**