



WEST BENGAL UNIVERSITY OF TECHNOLOGY

Tender Notice for Development of a Computerized Web-Based management system consisting of three parts (modules) viz. Faculty Tracking System (FIS), Infrastructure Tracking System (ITS) and Web-Based Management System (WMS) of the affiliated colleges.

West Bengal University of Technology invites quotation (proposal) from technically competent and experienced Vendors to develop a Computerized Web-Based management system consisting of three parts (modules) viz. Faculty Tracking System (FIS), Infrastructure Tracking System (ITS) and Web-Based Management System (WMS) of its different affiliated colleges imparting AICTE approved courses and WBUT (Non-AICTE) courses (B.Tech, M.Tech, B.Pharm, M.Pharm, BHMCT, MHMCT, B Arch, MBA, MCA, BBA, BCA, BBM etc.). The tracking management system will be based on AICTE and WBUT norms. The system will be able to generate dynamic reports on various queries. Initially the FIS would be able to create the database for faculties of its all affiliated colleges which should be on a client server model and Web-Based. The data can be input through web by the faculties of its affiliated colleges and same may also be modified with proper security tracking. The ITS would be able to retrieve all infrastructure details of all affiliated institutions with gap analysis report. The WMS would be able to produce various reports of the Colleges pertaining to its land, organizing Society/ Trust, Governing Body and Infrastructure facilities etc. with a gap analysis report. Besides that the system should be able to generate financial reports like dues from colleges, addition of new courses/ colleges, closure of different courses of colleges, deletion of colleges and modification thereof etc. The system should permit the supervisory control of the office of the Inspector of Colleges along with proper security. The Vendor who will be favoured with the order is bound to follow the followings:

1. The Vendor may be required to visit the colleges/ approved centre for collection of necessary documents collection & subsequent verification before the final updation in the database
2. The Vendor should also need to provide minimum required full-time manpower at the University to handle the system on a day-to-day basis and provide facilities to its clients on behalf of the University. The Manpower so provided should be on the payroll of the Vendor.

3. Updation of the software should be done as per the requirements of the University
4. Agency is to maintain utmost confidentiality all the time, failing which, penal measures upto a maximum of 80% of the entire amount paid at the time of such breach will be realized and legal proceedings will be drawn.
5. At any point of time if the company concerned is unwilling to continue with the job, they are required to give a notice of six months in advance. The company will be bound to hand over the entire system to the new company who will be selected by the University during the notice period. In case of non-compliance of the same, a penal measure mentioned at Sl. No. 4 will apply.
6. The University is at a liberty to discontinue the Agency with one month notice in advance and same will be binding on the Agency

The proposal should be in two parts namely; Technical Bid and Financial Bid. The University will open the Technical Bid first. The bidders are required to give a presentation about the system taking into consideration the enclosed System Requirement Specification (SRS). The name of the bidders whose proposal will be found technically sound by the University will be announced immediately after completion of all presentations made by all bidders. Subsequently the successful bidders are required to submit the financial bid. The financial bid should contain the **rate** of the followings:

- Part wise (module wise) i.e. FIS, ITS and WMS
- The data collection per college (Kolkata & neighbouring area, South Bengal Districts and North Bengal Districts)
- The manpower required as mentioned at Serial No: 2

Eligibility Criteria for Vendors.

- i. Registration with sales Tax, service Tax is essential (documents to be attached)
- ii. Constitution of the firm (whether Proprietary/ Firm partnership or Limited Co., etc.)
- iii. Name/list of Proprietor/Partner/
- iv. Name and Address of the Bankers.

Last date of submission of Technical Bid: **27th November, 2012 upto 2 PM**

Date of Presentation of Technical bid by Vendors: **29th November, 2012 (from 11 AM onwards) in WBUT Auditorium/ Committee Room**

Last date of submission of Financial bid: **3rd December, 2012 upto 2 PM**

Opening of Financial bid:

**3rd December, 2012 at 2:30 PM in
presence of Vendors or their
Representative**

Eligible interested parties have to submit prescribed format of Technical bid. The offer complete in all respect in separate sealed cover marked as “Technical Bid” & “Financial Bid” and super scribing “Web-Based Management System” on top and name, address & contact no. of the bidder at bottom left corner should be addressed to

REGISTRAR
WEST BENGAL UNIVERSITY OF TECHNOLOGY
BF-142, SECTOR-1, SALT LAKE, KOLKATA- 700064

Vice Chancellor/ Registrar

Enclosed: System Requirement Specification (SRS)

System requirement specification (SRS) for proposed system

Introduction

The system consists of three parts viz. Faculty Information System (FIS), Infrastructure Tracking System (ITS) and Web-Based Management System (WMS) in respect of AICTE approved colleges conducting WBUT affiliated courses as well as non-AICTE colleges affiliated to WBUT.

Number of Colleges

Engineering- 70

Pharmacy- 9

MCA- 8

MBA- 22

HMCT- 3

Integrated Campus – 8 (5 having Engineering programme)

Non- AICTE- 85

Details of SRS

A. Faculty Information System (FIS)

- The application will be web-based ensuring that all the operations by all the users can be carried out through the web-interface provided by the application from within LAN and/or Internet
- The application has to be user-friendly
- The application should be parameterized as far as possible i.e. the application behavior is least hard-coded and should be able to be configured/changed by changing the parameters through the web interface
- Security should be given utmost importance
- The database contains details of all faculties of all institutions affiliated to WBUT which should be kept in secured manner.
- FIS will generate an unique identification alpha-numeric number for each faculty which will be used as a primary key for this database
- Backup and recovery processes of the database should be included in this system

B. Infrastructure Tracking System (ITS)

- The application will be web-based ensuring that all the operations by all the users can be carried out through the web-interface provided by the application from within LAN and/or Internet
- The application has to be user-friendly
- The application should be parameterized as far as possible i.e. the application behavior is least hard-coded and should be able to be configured/changed by changing the parameters through the web interface

- ITS consists of two broad modules viz. ITS for AICTE- WBUT affiliated institutions and ITS for WBUT affiliated institutions
- University will provide the information regarding the specific infrastructure according to the AICTE standardization for AICTE colleges and non-AICTE colleges get the required information from University. Colleges obtain these information from front end web interface when they log in by user id and password provided by the university
- The validity checking facility will be responsible for prohibiting the entry of redundant data into the database
- ITS will generate an unique identification code similar to existing college code provided by WBUT
- There should be a possibility to generate a report for infrastructure of a college when it will be required
- Backup and restore concepts should be there for consistency of database
- The affiliated colleges are to satisfy a couple of guidelines/norms enforced by agencies like AICTE/UGC/WBUT etc. Such guidelines are to be created dynamically through the front-end web interface and stored in the backend database in a format suitable for subsequent operations

C. Web based Management System (WMS)

- The application will be web-based ensuring that all the operations by all the users can be carried out through the web-interface provided by the application from within LAN and/or Internet
- The application has to be user-friendly
- The application should be parameterized as far as possible i.e. the application behavior is least hard-coded and should be able to be configured/changed by changing the parameters through the web interface
- User can be created by the administrator or can be registration (followed by approval) based.
- User groups can be created
- Permissions to carry out certain operation(s) can be granted per user or per group basis
- WMS look after the overall affiliation process i.e. granting affiliation to new institutions, renewal affiliation to existing institutions and cancellation of affiliation to new or existing institutions.

- After successful log in, the institution has to first create resources i.e. providing information of both faculties as well as infrastructural through the front end web based interface.
- After performing the previous step; a unique application number will be generated which will be used by the institution in future correspondence to the university.
- Institutions are to fill up form(s) which are in general dynamically created by the application depending upon the guidelines the institution has to satisfy.
- Mechanisms should be there for offline filling up of forms, where the form data can be imported into the system. Integrity should be checked while importing such data.
- After importing all the data, there should be a integrated checking facility into this WMS by which WMS verifies whether the existing data provided by the institution satisfies the affiliation criteria specified by WBUT or not.
- Based upon the previous step, WMS generate a report against each application number. This report will be checked by WBUT at the time of physical verification
- Generating and Printing of Affiliation Letter in respect of each institution showing the intake under different courses each year who are satisfying the AICTE norms and WBUT syllabi requirement & affiliation regulations of WBUT