



**MAHATMA GANDHI UNIVERSITY
KOTTAYAM**

No. Ad.BIV/1/318/QPM Software/2018

Dated: 24.09.18

NOTICE INVITING TENDER

(Tender No. Ad.BIV / 1 / 318 / QPM Software/ 2018)

The Registrar, Mahatma Gandhi University, Kottayam invites online bid (technical and financial bid) for the procurement of **Software to Implement the Question bank for CBCS** course of the University.

1	Name of the equipment	Supply & Installation of Software to Implement the Question bank for CBCS course
2	Earnest money deposit (EMD)	Rs.15000/-
3	Tender submission fee	Rs.2300/- + GST
4	Period of supply and installation	Within 5 days
5	Mode of submission of Bid	Online
6	Tender Documents	Can be downloaded from the website www.etenders.kerala.gov.in
7	Last date and Time of submission of tender by online	08.10.18 4.00 pm
8	Date and time of opening of bid opening	10.10.18 11.00 am

General tender documents and tender schedule can be downloaded in A₄ plain size paper free of cost from the website www.etenders.kerala.gov.in

Documents to be submitted along with bid through online

Sl.No	Through online
1	Scanned copy of valid dealership certificate.
2	Scanned copy of duly filled e-payment form
3	Scanned copy of other certificates required, if any, for tender acceptance
4	Scanned Copy of duly filled preliminary Agreement in stamp paper of Rs.200/-
5	BOQ

Special Conditions

1. The quoted Price should be inclusive of all taxes/freight/Installation etc.
2. **AMC conditions**, nearest servicing centers details, user reference and supporting catalogues should be provided (soft copies).
3. The Delivery Schedule, Payment Terms & Warranty/Guarantee etc must be clearly indicated in the technical bid.

The bids will be opened at the date and time specified. Further details can be had from the **Administration B4 Section** on all working days during working hours. The bidders are advised to submit their bid well in advance to avoid any kind of network issues. If relevant documents through speed post are not submitted with in time, the tenders will not be considered.

The undersigned reserves the right to reject any or all the tender without assigning any reason whatsoever.

Sd/-

**ASSISTANT REGISTRAR III (ADMN)
FOR REGISTRAR**

SPECIFICATIONS

Purchase of software to implement the Question bank for CBCSS

Scope of Services

- Provide a presentation with new concept / ideas pertaining to Question Bank maintenance and Question Paper generation.
- Design, Develop, Test and Implement the software application, based on the final requirements.
- Maintain security best practices
- Provide training to different stakeholders, which includes academic expertise to implement the software
- Provide usage best practices, considering the academic scenarios
- Provide ongoing support
- Maintain all the formalities for developing and implementing software application for a Government / Academic organization.
- Assure confidentiality about communications and data provided

Pre-Qualifications

- The firm should have minimum of 10 years of experience in software application development for academics domain.
- The bidder should be a company or firm registered under the Indian Companies Act 1956/2013.
- The bidder must have valid service tax registrations

- The bidder must have audited balance sheet for the last 8 years and should be income tax assessed
- The Organization should have a turnover of at least Rs. 1 Crore for the last 3 years should also be able to provide onsite support if required.
- The Bidder should be based in Kerala or have a local office for the past 5 years. Bidder should also be able to provide onsite support if required.
- The Bidder should have a minimum of 25 IT professionals in the team.
- The Bidder should have academic domain experts in the team implementing the software application
- The bidder should have successfully implemented similar application in at least two autonomous college/universities and should be able to provide customer references.
- The bidder should not have a history of being blacklisted by the Central/State Governments or Government Agencies.

Software Requirements

- The application should be robust and highly secure.
- All the teachers in various affiliated colleges under the university should be able to enter/suggest questions
- The board of studies should be able to shortlist questions entered by the teachers, into the question bank
- Experts should be to review and comment on the questions in the question bank
- The board of studies should be able to finalize the question bank
- Well structured and scientific maintenance of question banks should be allowed
- Questions shall be categorized under Bloom's Taxonomy
- Controller of Examinations should be allowed to generate question papers easily, as and when required
- Different question paper patterns of the university should be supported
- There should be provisions to control difficulty level as well as theory/application elements in the Question papers
- Repetition from previous year question papers should be restricted to desired levels
- Usual complications in question paper generation should be taken care of
- Standardization of student evaluation should be facilitated.

Implementation Requirements

- Assist the University in implementing the software and defining best practices in security and usage

- **Sufficient training and workshops should be provided to teachers and board of studies members to use the software application and best practices**
- **Provide necessary training to the office of the Controller of Examinations**
- **Should be ready with infrastructure for hosting the application or otherwise be capable of managing servers for a similar requirement**
- **Software certificate issues if any should be resolved by the firms.**

DETAILS

1. The system should have two main functionalities a) Creation and Maintenance of a Solid Question Bank & b) Generation of Question papers
2. This system should offer choices to select different 'templates' of Question Paper and if not comfortable with the predefined templates, customized option should also be available. The generated Question Paper will be in accordance to the modules and templates which is saved in PDF format and uploaded with a 'timestamp, digital signature, encrypted/unencrypted. Activity log should also be available in proposed system so even small changes done will be recorded and can be retrieved.
3. All teachers under MGU with teacher code should be able to contribute questions according to the topic, module, scheme and syllabus.
4. Single question contribution mode and bulk question contribution mode should be available.
5. Question typesetting and beautification work should be possible before pushing the same to production data
6. BOS should be able to (multiple hierarchy sort and finalize the questions to be stored.
7. System should be able to avoid maximum duplication of questions from each module/ topic at the entry level itself.
8. System should support multilingual questions including graphs drawings, symbols and pictures during input and output (html, pdf, print
9. Both offline and online facility to contribute questions should be available
10. Should support MCQ questions (key) as well as descriptive type questions (scheme) in compliance with the scheme and syllabus of the corresponding programmes
11. Should be based on a standard taxonomy (for eg. Bloom's taxonomy)
12. Question paper must be generated for a specified Course and Semester.
13. Capable to generate single QPs and bulk QPs as per the day's timetable.
14. User should be able to generate question paper randomly and instantly for a course / semester as per the timetable
15. The system should be developed considering the following assumptions and dependencies.

Each course /programme has its specific code.

All questions belonging to a particular course fall in some question type/ category/ pattern.

The University can have any number of courses and streams.

16. Software should be Browser based,
17. Should be Capable to generate question paper in HTML and in PDF format with the encryption standards specified by the university

18. All the question papers generated should be print friendly
19. Should be capable to generate Question paper template / pattern according to exam/ scheme/ year/ semester / custom
20. Should have dynamic decision assistance capability (related to availability of question as per taxonomy provided)
21. Final product under printing environment should conform to the layout strictly(uneven page breaks, questions in multiple pages etc should be avoided)
22. Software should be capable to inherit Subject/ Program codes, QP codes as per universities policy
23. PDF QP should conform to University's Question Paper Online Transmission Policy
24. Should conform to all security standards.