MRCET/BEES/PO/2018-2019/01 **October 29, 2018**

To
Bees Software Solutions Private Limited
D.No. 4-430/153,I – Block, # 401 & 404,
Jewel Meadows, Sarpavaram Road,
Kakinada, East Godavari District,
Andhra Pradesh, India.

Sub: **Purchase Order for BeeS Examination Tool – Reg.**
Ref: **Your Quotation BEES/MRCET/88/18-19, Dt. 25.10.2018**

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With reference to your quotation and subsequent negotiation had with you, we are placing an order for the below mentioned:

Sl.No.	Description	Qty	Unit Price	Total
1	**BeeS Examination Tool for Autonomous Colleges with** **1. EVALUATION and OBE UPDATION IN BET PLUS** **2. <u>Unit Master Creation</u>** The no. of units considered for examinations of different courses can be maintained here . This master setup helps to handle the variation of no. of units to be studied in different subjects, different semesters and different courses. Ex: Unit I, Unit II, etc. **2. <u>Question wise marks pattern creation</u>** This master setup is used to maintain the master pattern of questions. In this master pattern Unit Name (I,II,III etc.), Question No (1,2,3 etc.), and Question Part (a,b,c etc.) will be entered. Once this master pattern is created, it can be imported for any subject. **3. <u>Subject marks pattern creation</u>** Here the master pattern of questions will be imported, and the maximum marks of each question, blooms taxonomy level and program outcome level will be configured. This pattern has to be configured for every subject and every exam for each semester, branch and course, as the pattern and the outcome level may vary for each criteria.	1	2,10,000/-	2,10,000/-

PRINCIPAL
Malla Reddy College of Engg. & Tech
UGC AUTONOMOUS INSTITUTION
Maisammaguda, Dhulapally, Secunderabad-500 100.

4. **Choice Master Setup**

This is an input for the system, for calculating the final marks, when the student attempts both the questions, when asked to choose one answer. (Ex: First Choice, second Choice, Best, Least, Average, Cancel)

5. **Choice Grouping**

This interface is for grouping the questions as choice. This is an input for the system for recognizing, which 2 questions are coming as a choice. Based on this input, the system will calculate the final marks of the student, even if the student attempts, both the questions in the same choice. This grouping can be done either by a question with another question (Ex. 1 OR 2) or by a question part with another part of the question. (Ex: 1 (a) OR 1(b))

6. **Bundle Generation**

This interface is for generating the bundle no. for each subject. This is a tedious task after the examination. This task is made very easy with the bundle generation part of E-Valuation module. As soon as the booklets are reached the examination department, this task can be executed. Just clicking on the 'Generate Bundle No.s', button, the system will generate the bundle no.s with the inputs like prefix of bundle no. (this prefix can be used for recognizing the examination like..month& year, regular/supply, course etc.), Start no. of Bundles, and no. of booklets per bundle. Based on this criteria, automatically bundle no.s will be generated and serial no. of each booklet also will be generated. Now we can print the stickers which contains, Bundle No., Sl No and Secret code of the booklet. If the booklet is printed manually, 2 stickers can be printed, for sticking on both parts (the identification part and valuation part) of the booklet. If the booklet is printed from software, 1 sticker can be printed and stuck on the valuation part of the first page of the booklet.

7. **Sticker Generation**

The sticker can be generated one at a time, in case of software printing, and all at a time, in case of manual booklet. The sticker model is given below.

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	8.Bundling Work This is the task executed in the examination section, after the bundle no.s generated. The booklets can be segregated with the bundle no.s and in the order of Sl. No. given. **9. Valuator Remuneration Setup** Here the remuneration of valuator can be configured based on criteria like, per bundle or per booklet like that. With this data, we can analyse the money flow of examination section. **10.Valuator College Setup** Here the master data of colleges, from where the valuators are invited can be maintained. With this data, we can filter the valuators, college wise, when required. **11. Valuator Master Creation** Here the master data of valuators maintained with different details like, their qualification, designation, department, specialized subject, mobile no., email etc. This data can be used for filtering the valuators for each subject. The communication details are required for implementing security features like OTP, for sending the username, password etc. **12.Bundle Allotment to the Valuator** Once the master data of valuators and bundles are ready, the bundles of each subject can be allotted to the valuator. In case of double valuation, each valuation can be allotted to different valuators, for different bundles. **13.Valuator Login Creation & Password** Once the bundles are allotted to the valuator, the logins can be created. Based on the pre-defined criteria, the valuator login and password for each subject (in case multiple subjects are handled) and will be communicated to them. The valuator login can be controlled by pre-defining the start date and end date of login of the valuator. **14.SMS/Email Login & Password to Valuator** The login details can be communicated to the valuator via email or mobile no. Both the options will be given to the user. The user can opt and send the message.			

	15. Valuator Login page in Browser The valuator login page will be opened in browser with a hardware security key inserted. The security of marks entry page is assured with a hardware key, secret login credentials, OTP (if required), login control based on dates and essential database security. The browser page will be encrypted with SSL certification. **16. Marks entry 1st Valuation** This interface will act as the marks entry page for the valuator. Once the valuator is logged in with the username and password given, he will be redirected to the Marks Entry Page. Based on the login, the system will recognize it as a first valuation or second valuation. The valuator can reassure his login with the photo displayed on the top part of the marks entry page. The subject will be shown on the caption band. The bundle No.s allotted to the valuator will be displayed in a list on the left part of the page. Once the bundle no. is selected, the booklet no.s (secret codes) will be displayed in another list in the allotted serial no. order. The valuator can pick the booklet no. for which the valuation is to be done. The selected bundle no. secret code and sl no. of the booklet will be displayed on the top part for a second verification. The Marks Entry Columns will be displayed on the subject allotted question pattern. The valuator can enter the marks attained in each question. Once the valuation for a booklet is completed, he can save the data for that booklet. Once the booklet valuation is done, the secret code will be removed from the top list and the it will be added to another list, with the total marks obtained in each unit. If the valuator wishes, he can re-verify the data which is entered in the bottom grid. He can make changes and save again. Once all the booklets of the selected bundle is valuated, the bundle can be finalized and froze. Once the bundle is froze, further verifications on the same bundle cannot be done by the valuator. It can be done only with the help of administrator. Once the bundle is finalized, a printout on the finalized bundle will be generated. This can be signed and submitted by the valuator to the examination section as a proof.			

	17. Marks entry 2st Valuation This interface will act as the marks entry page for the valuator, for 2nd Valuation. The process is same as of 1st Valuation. **18. Valuation Status Check** This is a special interface for examination department head, for monitoring the status of valuations. This interface provides the information like, for each valuator, how many bundles are left over, in each bundle how many booklets are left over etc. It shows the status of both 1st valuation and 2nd valuation. **19. Scrutiny Report** This interface is designed for providing the scrutiny report on the 1st and 2nd valuation. It displays the entries which doesn't match in the 2 valuations. The mismatched bundle, booklet, and questions will be displayed in the report. The mismatch entries can be corrected by a super user with separate login and be finalized. **20. Verify Data Entry and Correction with Scrutiny Report** This interface will look similar to the 1st and 2nd Valuation Marks Entry interface. But in this interface, only the mismatch bundles will be displayed in the list. Once the bundle no. is selected, only mismatch booklet will be shown in the below list. The booklet can be selected, corrections can be done and saved. Once the data is finalized here, the entry part will be locked permanently. **21. Third Valuation Report Generation** Once the data is finalized after scrutiny, third valuation report can be generated. This report will be generated based on the criteria given by the college. If the 1st valuation and 2nd valuation difference, goes, beyond certain limit, this particular report will be generated. **22. Results Processing** Once the third valuation marks entered, the result processing can be done. The moderation/grafting rules can be implemented for result processing. Grade card, GPA & CGPA of the student for that particular exam will be generated with this process. **23. Blooms Taxonomy** Based on the initial setups, the blooms taxonomy reports can be printed based on different criteria like, student, branch, subject, course etc. This analysis can be printed			

	individually for each student and can be displayed in E-portal also for student's reference. **24.<u>Program Outcome</u>** Based on the initial setups, the program outcome reports can be printed based on different criteria like, student, branch, subject, course etc. This analysis can be printed individually for each student and can be displayed in E-portal also for student's reference. **25.<u>Analysis Reports</u>** Different analysis reports can be generated based on different inputs. Some examples are given below a. Money Flow (Examination fee, fines, condonation fee etc. will be treated as income. The invigilator fee, valuator fee, and other expense will be treated as expenditure and the money flow will be created) b. Valuation Status Report c. Valuation Scrutiny Report d. Third Valuation Report e. Result Sheets f. Pass Percentage Analysis Report g. Moderation Analysis Report h. Toppers List i. Blooms Taxonomy for Student/Branch/Course for current exam j. Blooms Taxonomy for Student for all exams together k. Program Outcome for Student/Branch/Course for current exam l. Program Outcome for Student for all exams Together m. Online display of results for student/parent n. Blooms taxonomy of student online o. Program outcome of student online .....and many more **<u>Advantages of BET – Plus</u>** 1. Secured Coding 2. Bundling at Ease 3. Valuator at End-Point 4. Valuation at High End Security 5. Question wise Marks 6. Bloom's Taxonomy 7. Course Outcome 8. Program Outcome 9. Student Outcome 10. Marks Posting controlled with Maximum Marks 11. Indications on marks entries varying from the			

	regular average percentage 12. Monitoring of Valuation by Status Check 13. Simultaneous Verifications of Marks Entries from a superior level 14. Accuracy and Security is maintained at the higher end 15. Paperless, Effort less and Scanning less			
	Total			**2,10,000.00**
	GST (18%)			**37,800.00**
	Grand Total			**2,47,800.00**

Software Terms & Conditions

Technical Terms :

- The support services shall be given online through team viewer.
- The software will be provided in executable format to the college. The package setup rights and master setup rights will be given to the college. Regular data backup should be maintained by the college.
- Once the software purchase order is issued to the company and the requirement analysis reports are submitted, the company will do the customizations accordingly and will deliver the product within 30 days of time duration
- Project completion, testing & implementation period: 60 days.
- Delivery of working model to the college: 15-20 days from the confirmed purchase order.

Payment Terms :

- Purchase order should be placed on BeeS Software Solutions Private Limited, Hyderabad.
- UAMC Details:-U The cost mentioned is for warranty and maintenance of the software for 1 year. The services shall be renewed yearly through AMC. AMC is 20% of the proposed cost+18% GST
- 50% of the project cost should be paid in advance along with the purchase order, 50% of the project cost should be paid after completion of installation and training.
- 100% AMC payment is to be done in the beginning of the AMC period.

We are issuing his order in duplicate also and request you to send the duplicate copy of the order duly signed as a token of your acceptance.

Thanking you

Secretary/Correspondent
Malla Reddy College of Engineering and Technology

PRINCIPAL
Malla Reddy College of Engg. & Tech
UGC AUTONOMOUS INSTITUTION
Maisammaguda, Dooiapally, Secunderabad-500 100.

MRCET/BEES/PO/2018-19/01 **May 24, 2018**

To
Bees Software Solutions Private Limited
Villa No. 35, Ashoka-a-la-maison,
Dhulapally Road, Kompally,
Secunderabad - 500014

Sub: Purchase Order for BeeS Examination Tool – Reg.
Ref: Your Quotation No. BEES/MRCET/71/2018-19, Dt. 17.03.2018

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With reference to your quotation and subsequent negotiation had with you, we are placing an order for the below mentioned:

Sl.No.	Description	Qty	Unit Price	Total
1	Web based BEES ERP Software 1. Admission Process 2. Transport Management 3. Hostel Management 4. Academics 5. Payroll 6. Library 7. Examination Cell for JNTU Examinations 8. Placement Cell 9. Mobile APP	1	3,25,000/-	3,25,000/-
	Total (Inclusive of all taxes)			**3,25,000/-**

Terms and Conditions:

1. The Amount mentioned is including GST & other taxes
2. From the second year onwards services should be renewed through AMC. AMC is 15% of the proposed cost + taxes applicable.
3. Free updates of the software should be provided as long as college is covered under AMC.
4. Projection completion, testing and implementation period within 15 days.

We are issuing his order in duplicate also and request you to send the duplicate copy of the order duly signed as a token of your acceptance.

Thanking you

Malla Reddy College of Engg. & Tech. UGC Autonomous Institution Secunderabad-500 100.

Secretary/Correspondent
Malla Reddy College of Engineering and Technology

MRCET

MRCET/BEES/PO/2017-2018/01 **June 16, 2017**

To
Bees Softwaree Solutions Private Limited
D.No. 4-430/153,I – Block, # 401 & 404,
Jewel Meadows, Sarpavaram Road,
Kakinada, East Godavari District,
Andhra Pradesh, India.

Sub: Purchase Order for BeeS Examination Tool – Reg.
Ref: Your Quotation Dt. 22.03.2017

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With reference to your quotation and subsequent negotiation had with you, we are placing an order for the below mentioned:

Sl.No.	Description	Qty	Unit Price	Total
	BeeS Examination Tool for Autonomous Colleges with **1. Pre-Examination** **1. Program Master With Branches And Sems** The programs with its branches and semesters will be created first time itself **2. Student Master** Student's complete data will be stored in this interface with Personal Details, Academic Details and Admission details. This data can be used in other areas like Fee Collection, ID Card Printing, Sending SMS etc. **3. Nominal Roll** Shows the list of students with details in the running semesters **4. Batch wise Student List** Shows the list of students for each batch in different semesters **5. Curriculum Master** Shows the list of students with details in the running semesters **6. Curriculum Allotment** Allotting the curriculum studied by each student in different semesters. In case the student detains and rejoins with a student who is studying a new	1	6,00,000/-	6,00,000/-

MRCET

	curriculum, the new curriculum will be allotted to the detainee student automatically **7. Marks Setup** Marks Setup for different courses like max marks for theory, practical and project and pass percentage **8. Subject/Course Master** Subject details with its full name, elective, replacement option and credits are maintained here **9. Elective Subjects Allotment** The elective subjects will be allotted to the students in this interface **10. Exam Fees Setup** Exam fees structure will be maintained here for regular exams and supplementary exams for the selected exam **11. Exam Fee Collection Dates Setup** Examination master will be created with month and year of exam and with the dates of fee collection for regular and supplementary exams. **12. Exam Time Table Master Setup** The parameters input for generating the exam time table automatically is given here **13. Exam Time Table** The generated Exam Time Table will be displayed here. Will be displayed in the exam portal for each student's login. **14. Bulk Photo Resizing** This option is used to compress the photos stored in database to display it in different printed formats like hall tickets, OMR Sheets etc. **15. i) Online Student Application** The student can apply for his exam through this interface online (intranet). When he applies for supplementary exams his due subjects will be displayed and he can select only his due subject. The filled application form can be printed **ii) Examination Application Form** Once the examination master is created, application forms will be generated for the respective courses and semesters for all the students with their supplementary subjects printed. The student can tick the supplementary subject he wants to attend, sign it and submit it to the counter. **16. Exam Fee Challan Generation** As soon as the student is submitted his application,			

	Exam Fee Challan will be generated with his fee particulars. The challan will be printed individually for regular exams and for each semester supplementary exam for each student **17. Exam Fee Challan Confirmation** Once the student paid the fee in Bank and returns his challan copy to the examination fee counter, the challan will be confirmed in the system by an operator **18. Supplementary Data Checklist** Here the list of students registered for supplementary exam will be displayed. In the data checklist, the subjects registered will be displayed with the status of the parameters to be given as input for generating the Exam Fee Challan, Hall ticket and OMR Sheet properly **19. OMR Codes Generation** Here the secret codes for each student for each registered subject will be generated automatically based on the criteria given. **20. Blank OMR Codes Generation** Extra blank sheets will be generated for using as stand by solution, in case any sheet misplaced. This code can be re-linked at the time of marks scanning. **21. Clear OMR Codes** In case the code list is not generated in the required sequence there is an option for clearing the codes before printing the hall tickets and OMR sheets. **22. Exam Fee Dues List** The students who are not collected the challan and who are not submitted it back will be treated as due students and hall ticket will not be generated for them **23. Exam Fee Collection Report** Fee collection statement will be printed based on date, counter, branch etc. **24. Supplementary Students List** Subject wise list of students who are registered for Supplementary exams is printed here. **25. Hall Ticket Printing** Once the application is submitted and exam fees is paid, the hall ticket can be printed in bulk or single. Optional: Can be given online. **26. Seating Plan** Seating plan will be printed by giving few setups like room strength, how many branched to be allocated in one room, no. of members in row and columns etc.			

	27. OMR Sheets Generation The OMR codes will be generated for the students who are applied for the exam and will be printed from the software with barcode. **28. Blank OMR Sheets Generation** Blank OMR sheets will be printed here. **2. Post-Examination** 1. **Exam Absentees Entries** Here the absentees in the exam will be entered so that, so that their code will not be displayed in the D-Forms. **2. Internal Marks Entry** Internal marks will be entered through this interface by selecting single or multiple subjects. 3. **Supplementary Registration** The students who paid the supple fees will be treated as candidates registered for supplementary exam and there is no need of re-entry here. **4. OMR Scanning** The OMR sheets will be scanned and external marks will be stored to the software. **5. Results Processing** The results will be processed by merging internals and externals **6. Checklist Printing** The processed results with pass percentage of each branch will be printed without moderation **7. Moderation** The moderation interface will be given with choice to apply moderation marks for passing the 1 subject, 2 or 3 or with the different rules followed by institution. All the statements will be printed individually for comparison and finalization **8. Results Declaration** The processed results with any one of the moderation finalized by the committee will be declared and the results will be visible online(internet and intranet) to the students in their individual IDs. **9. Withheld students Results Declaration** Through this interface the we can declare the results of the students who is done any malpractices etc. **10. Re-Evaluation Fees Collection** Through this interface challan for reevaluation fee will be generated for the selected subjects. **11. Revaluation Marks Entry (Scanning)**			

	The revaluation sheets will be scanned here. The marks will be compared with the first valuation marks and if the percentage of variation is more than a particular percentage given, then the sheets may go for third valuation. If at all the third valuation is done, that marks will be declared as final. **12. Re-Evaluation Results Processing** Here the re-evaluation results are processed and declared. **13. Re-Registration** Here the student can re-register for any failed subject in the previous semesters with internal marks less than a particular percentage. **14. Re-Registration Results Processing** Here the re-registration results are processed and declared. **15. Student Code list printing** Here the code Vs. Hall Ticket No. will be printed for the examiners reference. **16. Re-Evaluation Fee Details** Here the Re-Evaluation registered Candidates list and fee collection details will be displayed. **17. Marks Memo Printing** Marks memo will be printed on the pre-printed stationary **18. Tabular Sheets For Display** Consolidated tabular display of marks for all the semesters for applying provisional certificate and OD from University **19. Students Consolidated Mark Sheet** Students consolidated marks sheet for print and for display online and offline **20. Various Analysis Reports** Analysis Reports like Pass percentage for the selected exam Consolidated marks statement for all students Subject wise pass percentage Toppers in each subject Supplementary candidates etc. **21. Posting The Results To Student Inbox** Each student will have an individual user id and password and he can view his results from anywhere in the world by logging into the BET online package. **3. Utilities** **1. College Setup** A college master interface will be given for maintaining			

	the college details like name, address, telephone, logo, college code etc. **2. Academic Year Creation** Whenever the academic year changes, new academic year is to be created through this interface **3. Financial Year Creation** Whenever the financial year changes, new financial year is to be created through this interface **4. User Creation (Offline)** Users are to be created for doing the operations in the software with different permissions through this interface. Even the edit, delete permission will be controlled here. **5. User Creation (Online)** Online users are created through this interface automatically who are the student users and the staff users who can view their performance, feedback etc. through online **6. Backup Of Data** The data backup is taken through this interface. This is a user controlled interface through which the latest backup of the database will be generated in '.BAK' formats. This backup is in non-editable format. This backup can be stored in external devices and can be restored if the existing data crashes or goes in a non-format. **7. Promotions** For promoting the students from the current semester to the next semester. Here the reasons of detaining like attendance shortage or credit shortage can be maintained. **4. CBCS- Choice Based Credit System** 1. Course Group Master 2. Course Master Common 3. Course Master Branch wise 4. Course Handling List/Faculty Mapping 5. Online Selection of Course for Each Student Login 6. Restriction of Max Credits and Max No. Subjects in Each Group 7. Letter Grades Integration 8. GPA Calculation on varying credits of the student 9. CGPA Calculation on varying credits of the student 10. Result Based on CGPA 11. Letter Grade for the Result			

	12. Incorporation of credits and result calculation, for the course studied in different college by the student **5. Examination Accounts – Income & Expenditure** **1. Payment Voucher for** a. Question Paper Setting b. Valuation c. Re-Evaluation d. Stationary Purchase e. Other Expenditures **2. Receipt voucher will be generated automatically for all the fees collected through the software.** **3. Income & Expenditure Statement**			
	Total (Inclusive of all taxes)			**6,00,000/-**

Terms and Conditions:

1. The software and database should be installed on the server provided by the college.
2. The software will be provided in executable format to the college. The package setup rights and master setup rights should be given to the college. Regular data backup should be maintained by the college.
3. Training should be given to the selected operators.
4. Since the data is very confidential the company should maintain the secrecy of the data in all terms.
5. 50% of the total payment will be released after installation of software at our systems and 50% after training and satisfactory report submission from the concerned section.
6. The purchase order should be treated as work order and the development activities should be started within 15 days from the date of the order and the total work should be completed within 2 months.
7. The software requirements in hard and soft copies and data backup from the previous software will be given by the concerned section for the development of the software as per the college examination section requirements.
8. First year of the software installation, form the date of purchase order, will be treated as warranty period and software program to meet the all the requirements of the examination section should be developed by the company.
9. From the second year onwards services should be renewed through AMC. AMC is 15% of the proposed cost + taxes applicable.
10. Free updates of the software should be provided as long as college is covered under AMC.

We are issuing his order in duplicate also and request you to send the duplicate copy of the order duly signed as a token of your acceptance.

Thanking you

Malla Reddy College of Engg. & Tech ★ UGC Autonomous Institution ★ Secunderabad-500 100.

16/06/2017

Secretary/Correspondent
Malla Reddy College of Engineering and Technology

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Malla Reddy College of Engg. & Tech
UGC AUTONOMOUS INSTITUTION
Maisammaguda, Doolapally, Secunderabad-500 100.