

# **SHRI VISHWAKARMA SKILL UNIVERSITY PALWAL**

*(State Government University enacted under the Government of Haryana under Act 25, 2016)*



## **Expression of Interest (EOI) for Design, Development, Configuration, Implementation & Maintenance of Cloud based Enterprise Resource Planning System**

### **Shri Vishwakarma Skill University Palwal**

Main Campus, Village- Dudhola, Palwal, Haryana 121102

Transit office, Plot No. - 147, Sector – 44, Gurugram, Haryana 122003

Phone No.: +91-124 2746800

Visit us: <http://www.svsu.ac.in/>

### Expression of Interest (EOI)

S. No.	Items	Details
1.	EoI Notice No.	SVSU/ITCELL/EOI/2020/01
2.	Name of work	<b>Expression of Interest for “Design, Development, Configuration, Implementation &amp; Maintenance of Cloud based Enterprise Resource Planning ERP System” for Shri Vishwakarma Skill University, Village- Dudhola, Palwal, Haryana PIN-121102.</b>
3.	Date of publication of EoI	04-12-2020 at 02:00 PM
4.	Start of submission of EoI	04-12-2020 by 02:00 PM
5.	Last date and time for Receipt of EoI	21-12-2020 by 05:00 PM
6.	Date of EoI Opening	23-12-2020 at 11:00 AM
7.	Date and Time of Presentation by the Vendor Submitted EoI	Tentative date is 29-12-2020 at 11:00 AM. Shall be intimated on the University Website.
8.	Validity period of Proposal	180 Days from the opening of technical bid.
9.	Venue of Presentation	Transit Campus, Shri Vishwakarma Skill University, Plot No. 147, Sector 44, Gurugram, Conference Room, 3 <sup>rd</sup> Floor
10.	Contact Person	Dr. Ravinder Kumar 9810431631 ravinder.kumar@svsu.ac.in

## Introduction

**Shri Vishwakarma Skill University (SVSU)** is a State Govt. university established under Act 25 of 2016. The objective to establish this skill University is to facilitate and promote skill, entrepreneurship development, skill based education and research in the emerging areas of manufacturing, information technology, textile, design, logistics and transportation, automation, agriculture, maintenance, etc. and to raise skill level in various fields related to these areas.

**Shri Vishwakarma Skill University**, invites Expression of Interest (EoI) for “**Design, Development, Configuration, Implementation & Maintenance of Cloud based Enterprise Resource Planning (ERP) System**” from leading, reputed, professionally & financially sound Central / State Government Organizations or PSU’s which have experience in relevant and similar domain for Design, Development, Configuration, execution, Implementation and Maintenance of Cloud based Enterprise Resource Planning (ERP) System.

**Procedure for submission of EoI:** Vendors proposing to submit EoI, may visit University website [www.svsu.ac.in](http://www.svsu.ac.in): for downloading full document detailing the guidelines for EoI including details of Scope of work and the desired prerequisites. Any amendment/ updates made in the EoI or its Terms & Conditions will be uploaded on official website of the University. The EoI must be submitted in the prescribed format along with all supporting documents in compliance with the requirements of EoI. Bidders can download the EoI documents from the university website and the EoI (complete in all respect) must be submitted on or before **05:00 PM dated 21-12-2020** either on the e-tender portal of Govt. of Haryana or in triplicate in a sealed envelope duly super scribed as Expression of Interest for “Design, Development, Configuration, Implementation & Maintenance of Cloud based Enterprise Resource Planning (ERP) System” to the Shri Vishwakarma Skill University either in-person or by registered post or speed post addressed to the Registrar, Shri Vishwakarma Skill University, Plot No. 147, Sector 44, Gurugram Haryana - 122003. The University reserves the right to accept or reject any or all the EoI’s at any stage of the process or any of the terms of this document (partially or completely) without assigning any reason, no correspondence in this regard shall be entertained.

The firms/ organizations will be short listed based on the evaluation of their presentations by the Committee, constituted by the competent authority of the university. The date of presentation and other information’s shall be intimated through the University website.

Request for Proposal (RFP) for submission of Technical & Financial Bid shall only be issued to those firms/organizations who shall be declared qualified and shortlisted only after presentation and its subsequent evaluation of their EoI.

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## 1. ABOUT THE SVSU:

Shri Vishwakarma Skill University (SVSU) is a State university established under Act 25 of 2016. The objective to establish this skill University is to facilitate and promote skill, entrepreneurship development, skill based education and research in the emerging areas of manufacturing, information technology, textile, design, logistics and transportation, automation, agriculture, maintenance, etc. and to raise skill level in various fields related to these areas.

Currently, Shri Vishwakarma Skill University Palwal is operating from Transit office, Plot No. - 147, Sector – 44, Gurugram, Haryana 122003) Phone No.: +91-124 2746800.

### The Vision and Mission of the University

- **Student-Centric Education:** by providing equal opportunities to all who have the potential to succeed. Ensuring innovative academic programming and an exceptional level of engagement between students, industry staff and faculty so that all students acquire skills essential for purposeful and productive living
- **Knowledge Application:** by applying all learning into practice and practicing to perfection with passion, purpose and commitment to the pursuit and development of skills, knowledge and sense of citizenship.
- **Integrity and Ethical Behavior in All Actions:** by consistently making a personal choice to be ethical, honest and with moral correctness without being supervised.
- **Leading through Innovation and inclusivity:** by improving the world around us through disruptive thinking and innovative solutions; embracing and acting with responsibility to assure diversity and equity where all individuals are valued and respected.
- **Learning and Growth:** by serving as a catalyst for positive change in Haryana and beyond to empower, enable and inspire the youth with 'earn while you learn' model.
- **Industry as Key Partner to Create Impact:** by creating sustainable partnerships with stakeholders driving the initiative to change the skilling landscape and fostering trust and appreciation in the working model to harness opportunities to full potential.
- **New Age Technology:** by adopting and accepting the latest technological advancements which ensure highly evolved students, who are well-equipped with the future-oriented industrial know-how.
- **Giving Back to the Society:** by undertaking social and environmental responsibility conscientiously and imbibing sustainable practices to benefit and enhance the well-being of the society.

At present the University is running following programmes i.e.

- **Diploma Programme**
- **Under-Graduate Programme**
- **Post-Graduate Programme**
- **Ph. D Programme**
- **Short Term Certificate Programmes**

## **2. BROAD SCOPE OF THE WORK:**

1. Administration Management
2. Student Management System
3. University Examination System
4. Skill Assessment
5. Accounting & Finance
6. Library Management System
7. Estate Management
8. Internal Quality Assurance Cell (IQAC)
9. International Collaboration
10. Skill School Management
11. Training, Placement & Industry Integration
12. Affiliation Portal module
13. Students Activity module
14. Website mobile app development & Management
15. Development of Virtual Classroom/meeting/webinar platform and integration
16. Any other function of the University not covered above

Tentative scope of work is attached at **Annexure-D**

### 3. GUIDING PRINCIPLES

Shri Vishwakarma Skill University (SVSU) intends to implement an ERP project to automate and streamline its core Administrative, Academic, HR, Financial, Examination and other processes to improve administrative efficiencies and provide improved services to its stakeholders. For this purpose, it requires the services of a competent IT Company/Firm which can understand the university's requirements of ERP and provide complete ERP development with implementation. The broad scope of work for the bidder of the project is broadly classified and segregated as under:

- Design, Development, Deployment (Cloud hosting for five years) and maintenance of ERP system.
- The proposed solution must be based on Micro Services Architecture (MSA) principles and must adhere to a SOA based integration model across various applications of the IT portfolio.
- The proposed solution should be an Integrated, Scalable, Modular User-friendly and highly available.
- The proposed solution should have load balancing and distributed deployment capabilities.
- The proposed solution must implement role-based access for authentication and authorization to various modules and applications.
- The proposed solution must implement latest open source technology and support future technologies like Internet of things (IOT), Artificial Intelligence (AI).
- The proposed solution must implement dashboards and KPIs which help in quick decision making.
- The proposed solution must implement Business Intelligence and Reporting Tools (BIRT) reports for taking export as MS Excel, Word and PDF formats.
- The proposed solution must implement a multi-level security across various tiers and software layers of the IT platform.
- Best practices from the industry must be implemented across the tiers and layers of the proposed solution and across various phases of the software development life cycle.
- Operation and Maintenance of the Application Software and Cloud Infrastructure provided for the same
- Training of SVSU Employees
- Customization and Enhancement of the functionality in the modules as per SVSU requirements during the contract period.

Software support and maintenance for a period of five years' post go-live of the software platform is mandatory and part of the scope of work of the proposed program. The selected bidder must ensure that the technology / platform of the proposed software (application and system included) be of the latest version as published by the OEM (where applicable) and made available at no extra cost to the University.

#### 3.1 Software Licensing

The vendors will provide the require various software licenses (OEM or otherwise) to the university for use in the university and not be restricted to the number of users, devices or membership. The University would prefer a CPU/core based licensing that it could use to scale further while not being constrained with the number of users or devices.

### **3.2 Setup and Commissioning**

Installation, Setup and Commissioning of the system to host the software servers along with the portfolio applications will be part of the scope of work. Ensure that all non- functional requirements are catered to and will be part of the design and the proposed solution. The server infrastructure and connectivity requirements along with the data center details will be provided by SVSU to the selected bidder for configuration.

### **3.3 Documentation**

Providing all design, documents, user and operational manual.



## **4. Legal Rules and Laws**

### **4.1 Force Majeure**

Notwithstanding anything contained elsewhere in the contract, the parties shall not be liable for liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure i.e. an event beyond the control of Parties and not involving Parties and not involving fault or negligence not foreseeable by or beyond the control of Parties. Events also include wars or rebellion, strikes, bandhs, fires, floods, epidemics, quarantine restrictions and freight embargoes etc. After 45 days of force majeure event, the parties will decide whether to continue the obligations under this MOU or terminate with mutual consent. However, existing obligations at the time of Force Majeure event shall be complied with both parties.

### **4.2 Governing Law and Jurisdiction**

- This MOU shall, in all respects be governed by and construed in accordance with the laws of India and the courts at NEW DELHI/Gurgaon shall have the sole and exclusive jurisdiction to entertain any disputes that may arise hereunder.
- The Parties here to undertake to use their best efforts to resolve amicably any dispute arising out of or in connection with this MOU and the interpretation thereof through consultation in good faith and mutual understanding, provided that such consultation shall not prejudice the exercise of any right or remedy of either Party hereto by any such Party in respect of any such dispute.
- If the dispute doesn't resolve amicably then the same will be referred to the sole arbitrator to be appointed with the consent of both the parties. The decision of the arbitrator shall be binding on both the parties. The arbitration shall be concluded as per the provisions of "Arbitration and Conciliation act 1996".

### **4.3 Intellectual Property Rights**

- The University shall have proprietary rights in relation to the course material developed during Training. University shall have all the rights to use the curricula and course material so developed however company can also use for its training program within Dealskart Online Services Private Limited. Company shall not claim any right over these documents.
- The data of trainees can be used by the company as well as University for purpose of providing job to the trainees.
- Company and SVSU makes no warranties, express or implied, statutory or otherwise, including any implied warranties relating to this Agreement to each other and shall not be liable to the other for any loss of profits, loss of business or for special, direct, indirect, incidental, or consequential damages or losses of any kind or nature whatsoever.
- In no manner the liabilities of the parties will go beyond Rs10,000/- (rupees ten thousand only). The liabilities of both the parties will remain limited.

### **4.4 Confidentiality**

- Confidential Information means all information that is deemed or treated as confidential or proprietary by each Party which the recipient of the information knows or ought to reasonably know to be confidential or proprietary including any information related to the Trainees. The Confidential Information of each Party shall be provided to the other Party to the extent necessary for the performance of this Agreement. Each Party recognizes and acknowledges the competitive value and confidential nature of the Confidential Information and the damage that could result to the other Party if the information contained therein is disclosed to any third party. Accordingly, each Party hereby agrees that it shall use the Confidential Information and all other data solely for the purposes of this Agreement and that it shall not, at any time during or any time after the completion, expiry or termination of this Agreement disclose the same to any third party, without the other Party's prior written consent.

Additionally, each Party shall protect the other Party's Confidential Information with reasonable effort using the same standard of care that applies to its own Confidential Information of similar nature.

- Confidential information shall not include, and the obligations provided hereunder shall not apply to information which is required to be disclosed by any law or order of a court of competent jurisdiction, government department, agency or supervisory or regulatory authority to whose rules the other Party is subject, provided that prior to such disclosure the other Party shall consult the disclosing Party as to the proposed form, nature and purpose of the disclosure, to the extent feasible or, prior to disclosure by a Party, was (i) already publicly available; (ii) received by the other Party from a third party without restriction; or (iii) independently developed by the Party; and after disclosure by a Party, (a) becomes publicly available through no wrongful act of the other Party; (b) is disclosed without restriction to the other Party by a third party who is not in breach of an obligation of confidence owed to the Party;

## 5. Eligibility Criteria/Prequalification

The bidder must possess the requisite experience, strength and capabilities for providing the services necessary to meet the requirements, as described in the EoI document. The bidder must possess the technical know-how and the financial wherewithal that would be required to successfully provide the IT applications, systems and support services sought by SVSU. The bids must be complete in all respect and should cover the entire scope of work as stipulated in the EoI document. The invitation to bid will be open to all bidders who will qualify the eligibility criteria as given below. Eligibility criteria are mandatory and any deviation in the same will attract the disqualification of bid.

S.No.	Criteria	Document to be provided
i.	Central/ State Government Organizations or Central/ State PSU's	Certificate/Act of Incorporation.
ii.	(a) The EoI submitting firms/Organizations must have successfully implemented at least two similar Educational ERP/University Management System/ e-Governance projects (e-learning / e-classroom) in the University/Govt. institute of repute and skill assessment & certification having at least 10000 student's registration. (b) Minimum five years of experience in execution of projects with the dimensions mentions in clause ii (a) of this table	Documentary proof from earlier university/institute where the project was successfully completed. List of successfully completed projects indicating cost, customer name & address. The documentary proof should be applicable to the responder firm only and not for its sister-concern or subsidiary or parent company.
iii.	The EoI submitting firms/Organizations having minimum ISO/IEC-27001 and CMMi level-3 certification.	Valid Copy of Certificate issued by the appropriate authority.
iv.	In case of a consortium, the EoI submitting firms/Organizations and each of its member must have positive net worth and an annual turnover of more than INR 20 Crore or above.	Certificate from Practicing Chartered Accountant for the Net worth and the Copy of last financial years audited balance sheet of the company submitting the EoI.
v.	The EoI submitting firms/Organizations must not be under a declaration of Ineligibility or black listed with any of the Government/ Public sector organizations, unit or Agencies.	Self-Declaration from Authorized Signatory of the EoI submitting firms/Organizations.
vi.	EoI submitting firms/Organizations must be able to provide total desired integration & solutions.	Self-certification.

## 6. EoI Submission

Bidders can download the EoI documents from the university website and the EoI (complete in all respect) must be submitted on or before **05:00 PM** dated **21-12-2020** either on the e-tender portal of Govt. of Haryana or in triplicate in a sealed envelope duly super scribed as Expression of Interest for "Design, Development, Configuration, Implementation & Maintenance of Cloud based Enterprise Resource Planning (ERP) System" to the Shri Vishwakarma Skill University either in-person or by registered post or speed post addressed to the

Registrar, Shri Vishwakarma Skill University, Plot No. 147, Sector 44, Gurugram Haryana - 122003. EoI submitted the stipulated date and time will be rejected and not entertained for further action.

## 7. EoI Evaluation Process

All responses including the proposed solution(s) received by the university as EoI submitted by various firms/organizations shall be evaluated by an Evaluation Committee duly constituted by the competent authority of the university, on the basis of eligibility and evaluation criteria mentioned in this document. The respondents will give detailed presentation of the solution before the Committee as per the schedule published by the university on its website. Only the eligible EoI submitting firms/Organizations will be informed about their selection and RFP will be issued to them.

### Criteria for Technical Presentation Evaluation:

S. No.	Description	Marks Allotted
01.	<b>A comprehensive Proposal Report including proposed Solution for SVSU</b>	<b>10 marks</b>
	Conceptual and Technical Understanding of the proposed Solution	2.5
	Coverage of various parameters of the scope of the work	2.5
	Feasibility of the proposed solution	2.5
	Technical soundness of the proposed solution	2.5
02.	<b>Software/Solution Capabilities:</b>	<b>10 marks</b>
	The organization should have in-house technical personnel to develop and maintain educational ERP software and should follow well defined Software Change Management process, best practices to manage changes in the software.	5
	Application design and security measures.	5
03.	<b>Overall Cloud based ERP Solution proposed</b>	<b>35 marks</b>
	Admin, Account & Finance, Estate Management any other module	6
	Student Management System, Integration of Virtual Classroom/meeting/Webinar Platform, Library Management, Affiliation Portal, IQAC, Skill School Management, Students Activities.	9
	International Collaboration, Training & Placement module	5
	Website, Mobile app development any other module	5
	University Examination and skill Assessment & Certification Module	10
04.	<b>Proof of Concept including testing of sample data and site-visit where solution is implemented.</b>	<b>15 marks</b>
	Testing of sample data	10

	Site-visit	5
05.	<b>Organizational Capabilities:</b>	<b>20 marks</b>
	<b>(a) Software Capability</b>	<b>10 Marks</b>
	Upto 10,000 users	2.5
	Upto 15,000 users	5
	Upto 20,000 users	7.5
	Above 20,000 users	10
	<b>(b) Technical Man Power Capability</b>	<b>10 Marks</b>
	Upto 100 Employees	4
	Upto 150 Employees	6
	Upto 200 Employees	8
	Above 200 Employees	10
07.	<b>Certifications</b>	<b>10 marks</b>
	<b>ISO/IEC Certificate for Software Standards</b>	<b>5</b>
	27001, 20001, 9001	5
	27001, 20001	3
	27001	2
	<b>CMMi level Certification of the EoI submitting firms/Organizations</b>	<b>5</b>
	Level 5	5
	Level 4	3
Level 3	2	
<b>Total Marks</b>		<b>100</b>

**CRITERIA FOR SHORTLISTING THE VENDORS FOR BID SUBMISSION: -**

Only those bidders who would be found eligible as per eligibility and evaluation criteria i.e. EoI submitting firms/Organizations with overall Technical Presentation Score of 70 marks and above (with minimum 60 % in each of the seven categories given in the above Table: **Criteria for Technical Presentation Evaluation**) will be qualified to participate further in the tender process of Cloud based Enterprise Resource Planning ERP System at SVSU, Haryana. The University will send the email communication to the shortlisted bidders only at their registered email id and invite the limited tender bids through eProcurement system for the Cloud based Enterprise Resource Planning (ERP) System Process. All other disqualified bidders of EOI cannot participate in tendering process.

## Annexure “A”

### Checklist before submission

Please check whether you have accomplished the following before submission:

S. No.	Check Item	Response	If yes, mention page no.
1	Have you duly filled up the EoI Response form as per guidelines given in this document?	Yes/No	
2	Have you attached all the necessary documents as proof for various certificated necessary to be attached with the response form?	Yes/No	
3	Have you attached the necessary undertakings / declarations required to be attached with this response form?	Yes/No	
4	Have you attached the documental proof pertaining to experience?	Yes/No	
5	Have you attached the documental proof pertaining to 6 years of company's incorporation/ establishment/registration?	Yes/No	
6	Have you attached the certificate of Net Worth issued by practicing chartered accountant? audited balance sheets for last	Yes/No	
7	Have you attached the audited balance sheet signed by the practicing chartered Accountant for the last three years	Yes/No	

### EoI response form

(To be submitted with EoI response)

**Note:** 1 Wherever necessary, the details filled in this form, must be accompanied by relevant documentary proof/certificate for the verification, authenticity and correctness of the information submitted.

2. Neatly types response forms will be entertained.

S. No.	Description	Details (To be filled in by the responder to the EoI)
i.	Name of the Company	
ii.	Official address of Firm/Organization	
	Mobile No.	
	Phone No. and Fax No.	

	Email Id	
iv.	Corporate Headquarters Address	
	Mobile No.	
	Phone No. and Fax No.	
	Email Id	
vi.	Name of the contact person	
	E-mail of the contact person	
	Mobile No.	
	Phone No. and Fax No.	
vii.	Web Site Address of the firm/Organization	
viii.	Details of Company's Registration (Please enclose attested copies)	
ix.	Name of Registration Authority	
x.	Registration Number and Year of Registration	
xi.	Company registered for the Product / Service with validity period	
xii.	GST registration No.	
xiii.	Service Tax Registration No.	
xiv.	Permanent Account Number (PAN) of the company	
xv.	Whether the company complies with the legal Requirement under the Contract Labour (Regulation and Abolition) Act and	
xvi.	Name of Banker(s) along with address of the Branch (as appearing in MICR Cheque) & Account	
xvii.	Name of the Authorized Signatory, who is authorized to respond to the EoI	
xviii.	List of documents attached with their Page Number	

## **Annexure “B”**

### **DESCRIPTION**

The following notes offer guidance to proposing responder in the form of a model outline for their response document. All the headings indicated below must be addressed in the sequence shown, providing as much relevant detail as possible. (Conformance to this outline will assist the subsequent evaluation and selection activities, and any variations should be documented).

Additional headings and information may be provided by the proposing responder where they are required to include additional details or explanations.

Description of the proposing responder:

- i.** Specifically include legal status, ownership, and the name of the person within the company who is responsible for this project.
- ii.** The proposing responder’s general understanding of the project requirements and the proposed total solution.
- iii.** The main features of the proposed solution and any areas of financial, operational, development risks that are perceived.
- iv.** Upgrade and technology refresh strategy for the proposed software platform.
- v.** Describe the strategy suggested for future upgrade of the supplied equipment and / or products and any impact this strategy may have on operation etc.
- vi.** Scope of work compliance as per the document



## Annexure “C”

### UNDERTAKING

**(To be submitted by the responder on the responder’s letter head)**

I/We hereby undertake that I/We have studied and understood the Expression of Interest document completely.

I/We hereby undertake that I/We understand that the Section Scope of Work and Requirement of this Eol is indicative only and not exhaustive in any manner and that the final scope of work and technical specification will be decided by SVSU at their discretion.

I/We hereby undertake that I/We understand that the SVSU reserves the right to finalize the scope of work and requirements at its discretion, which may be based on my/or proposed solution and/or any other responder’s proposed solution and/or as decided by the SVSU. I/We hereby declare that I/We shall not be having any claim and/or right for the said usage. I/We hereby undertake to provide the requisite OEM authorization as and when required and/or asked for by SVSU, as per the solution and/or requirements, as decided by SVSU at their discretion.

I/We hereby undertake that I/We hereby undertake that I/We understand that the SVSU reserves the right to float a separate tender for the scope of work and requirements as mentioned above of this Eol irrespective of the outcome of this Eol. I/We understand that in such a case I/We shall bid separately for that tender and in no case our response to this Eol shall be deemed as a bid for the said tender.

I/We hereby undertake that the SVSU reserves the right to short list responder(s) for further tendering of this Eol and in case of my/our response being rejected I/We shall have no claim of any short in the further tendering process. Further SVSU shall be at liberty to allow any company to respond in the tender process at the stage for “Request for Proposal” irrespective of the fact that the company allowed has participated in the Eol or not and I/We shall have no claim of any sort on such process.

I/We hereby undertake that we shall comply with the scope of work and requirements and there are no deviations of any manner in this regard from my/our side.

I/We hereby undertake that in case my/our response to this Eol is short listed I/We agree to bid for the further tender as and when asked for by SVSU based on the terms and conditions and technical specifications and scope of work as finalized and decided by the SVSU at their discretion.

I/We undertake to be the single point of contact for SVSU and shall be solely responsible for all warranties, upgrades, and guarantees etc. offered by the OEM, and system integration and facilities management and for the entire scope of work and requirements as per the service levels defined in the subsequent tender document.

I/ We here by affirm that our response is valid for a period of 90 days from the date of Eol submission.

Authorized Signatory

## Annexure “D”

### **Tentative Scope of Work**

The broad scope of ERP to be design and develop will be as per these functional requirements prepared in terms of various modules required at SVSU. Integrated system is required by the University for single point control and management. List of modules are as under

#### **M1. Administration Management**

This module may consist of following activity:

User Access Roles and Rights, Human Resource Management, Transportation Management, RTI Management, Visitors Management, Employee communication system, e-Calendar and Notice Board, Grievances, Mobile Applications, Court-Case Management, etc.

#### **M2. Student Management System**

This module may consist of following activity:

CRM (Student Mobilization), Student Login Module, Admission Module, Academic Management, Learning Management System, OJT Management Module, Parent login, Short Term Programs/Courses, etc.

#### **M3. University Examination**

This module may consist of following activity:

Examination Calendar, Examination Registration, Admit Card Generation, Question Paper Creation, Examination Conduct, Evaluation, Result declaration, Transcript/ DMC/ Degree Generation, Online AI Based Proctored Exam Module, Alumni Management, Paperless Evaluation, Credit Bank, etc.

#### **M4. Skill Assessment Module**

Short Term Programs (STP) Assessment Management, Inspection Agencies Empanelment, Training Centers Continuous monitoring, Schemes Definition, Batch Registration, Empanelment of Assessment Bodies/Assessors, Auto/Manual Assignment of Batch to Assessment Bodies/Assessors, Batch Assessment Results entry/uploading by Assessment Bodies/ Assessors, Results Checking and Approval by SVSU, Certification, Auto Performa invoice Generation of Assessor/Assessment Body, Assessment Body Bill Submission, processing, payment and Certification, Web Portal for Assessors, Audit of Assessors Performance, Training of Assessors (To A) etc.

#### **M5. Accounting & Finance**

This module may consist of following activity, Budget Management, Finance and Account Management, Purchase Management, Store and Inventory Management, Vendor Management Platform, On-line payment gateway Integration for all financial transactions, etc.

#### **M6. Library Management System**

#### **M7. Estate Management**

This module may consist of following activity, Hostel Management, Mess and Canteen Management, Residence, Guest House and Transit Accommodation Management, Stadium & sports, Health Centre Management, Auditorium Management, Shopping Complex Management, Project Management, Equipment Maintenance, Complaint Management, etc.

#### **M8. Internal Quality Assurance Cell (IQAC)**

The system must have the capability to fetch the data according to the various documents required for IQAC. This module may consist of following activity:

360 Degree Feedback, Capacity Building, Research & PhD, Entrepreneurship, Publications, Internal Review, Consultancy, Marketing, Quality and Assurance, Compliance Management (as per AICTE, UGC, NBA etc.), etc.

### **M9. International Collaboration**

This module may consist of following activity:

International Partnership/ Collaboration, Credit Transfer System Management, International Students management, Student/ Faculty Management, etc.

### **M10. Skill School Management**

The university also runs a feeder school in its campus for which School Management System has to be developed. In this module all school related activities are to be carried out like class management, Class time table, student's attendance, evaluation, admission, examination etc.

### **M11. Training, Placement & Industry Integration**

This module may consist of following activity:

Training and Placement Management, Industry Integration Section, etc.

### **M12. Affiliation Portal module**

College Registration, College Details, Students Data, University Notifications, Affiliation Process, Re-accreditation Process, Appeal Process, Conditional Accreditation to Accreditation Process, Continuous Monitoring Process, etc.

### **M13. Students Activity module**

Sports Activity, Cultural Program, Student welfare activities, Office of DSW, NSS, NCC, etc.

### **M14. Website, mobile app development & Management**

This module should provide the access the ERP with mobile application and website portal with access to following modules:

University Website Development, University Feeder School Website Development, and mobile app development for the followings:

Student Management System, Examination and Skill Assessment, Library Management System, Internal Quality Assurance Cell (IQAC) module, Training, Placement & Industry Integration module, Students Activity module, Employee records (e.g. Leave status, Salary details etc.), etc.

**Note: Complete details of information which is to be accessible on Mobile Application will be finalized during requirement gathering with the concerned departments.**

### **M15. Integration/ Development of Virtual Classroom/meeting/webinar platform.**

This module required for conducting online classes, meetings, conferences etc. for various population sizes and number of simultaneous instances will be as per the actual requirements with all necessary features including High-definition audio and video conferencing, Secure live streaming, Server-side and local recording, Advanced interactive whiteboard, Advanced collaboration and moderation, Live screen sharing, Polls and surveys, Discussion Forum, Interoperability, Security and Privacy preservation capability (Encrypted Communication and Password protected, Meeting locking facility etc.), Real-Time Private and Group Chat, Change your background capability, Mute your audio and turn off your camera by default and controlled by Organizer, Short keys to various functions, Screen capturing capability, Content sharing, etc.

### **16. Any other function of the University not covered above**