2.5.4 Development & Implementation of an Indigenous ERP System for Streamlined Academic/Administrative Process at Marwadi University

Marwadi University (MU) has developed an indigenous ERP system from the day of inception through website and mobile application for IOS and android to provide trustworthy, unbiased and transparent processes. The indigenous ERP system was conceptualized in the year 2010 to automate the academics and administration at the campus. It was then transformed into well-equipped high end ERP system with separate modules on academics, accounts, library, and administration etc with help of team of eleven developers during the span of six years till the establishment of Marwadi University in 2016.

All phases of examination- registration of students, appointment of paper setter/examiners, paper setting, hall ticket generation and issue of it to students, assessment, result declaration and post processing are fully automated. At MU, the faculty will enter rubrics at the beginning of semester, will provide continuous evaluation dates, and will enter marks within the deadline set. All answer books written by students are scanned and are available to the examiner in soft form in mobile application and website for assessment.
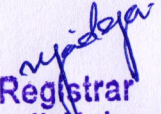
Examination system has sub modules available for
1. Preprocess: examination time table, assign faculty for paper setting, upload question paper, question paper selection, block arrangement, QR code generation, attendance sheet, supervisor and email to supervisor
2. Post process: Absent students, scanning of answer sheet, answer sheet assessment order, result generation, and result summary.
3. Reports: date wise attendance report, branch and semester wise block list summary, date wise supervisor duty list, employee wise Junior supervisor duty schedule, answer sheet distribution report, answer sheet check/assessment status report.

During Covid-19, the Institute has conducted PROCTORED online examinations in the form of MCQ and descriptive examinations. Students have appeared for examinations from their respective places using mobile phones. Proctoring module was created by in-house team of developers to prevent mischief like screen sharing, multiple face detection, no face detection, minimizing screen etc.

The customized version of Institute developed ERP system is outsourced to below listed eminent institutes on their demand
1) National Forensic Sciences
2) Gujarat Biotechnology University
3) Dr Subhash University
4) Vardhman College of Engineering, Hyderabad
5) Gokul Global University

Registrar
Marwadi University

Team of 23 developers including AVP Shri Parin Ramavat

MINISTRY OF
HOME AFFAIRS

राष्ट्रीय न्यायालयिक विज्ञान विश्वविद्यालय
(राष्ट्रीय महत्त्व का संस्थान, गृह मंत्रालय, भारत सरकार)

National Forensic Sciences University
(An Institution of National Importance under Ministry of Home Affairs,
Government of India)

NFSU

No:-NFSU/PUR/2022/Admin-ERP/\023   Dt:- 08/04/2022

To,
M/s. Marwadi University,
Rajkot- Morbi Highway,
Rajkot- 360003.
Gujarat, India.

Sub.:- Procure ERP System for all NFSU Campuses
Ref.:- (1) Your proposal dtd: 21/02/2022
(2) Minutes of the Departmental Purchase Committee Meetings dtd: 16/03/2022.

Dear,

With reference to above mentioned subject, kindly arrange to provide below mentioned services for

all NFSU Campuses.

Sr No.	Item name	Amount
01	ERP for National Forensic Sciences University Proposed Modules- 14 Nos. (HR, Student Section, Administration, Academic (Exam point of View), Examination, Inventory, Fees, Hostel, Library, Online Vouchers, Affiliation of College/ Institutes/ Schools/ Campuses, Budget &Finance, Forensic Consultancy and Inter – Campus integrated report preparation, Laboratory System Compliances as per CFR 21.11)	42,00,000.00
02	One Time Setup Cost	5,00,000.00
03	After first year AMC will be charges annually at 15% of License cost.	
		Taxes Extra

Terms & Conditions:

1   5% amount to be payable as Performance Security Deposit by PBG for 13 months from
    Go Live date.

2   Cost of Third Party Integration like RFID, Tally and Moodles will be included in Set-Up Cost.
    No Extra Payment is to be made.

3   Data Migration Cost is covered in quoted price and will not be charged extra.

4   AMC for the first year will be included and will not be charged extra. From Second year AMC
    will be 15% of the cost.

5   Minor Customization like any changes in field names, report formats, field additions on forms
    that do not impact any workflow change will not be charged extra.

(P.T.O)

GANDHINAGAR CAMPUS
Sector-9, Gandhinagar, Gujarat – 382 007
Ph: 079-23977102/103 | FAX: 079-23247465
Email: exe_registrar@nfsu.ac.in
Website: https://www.nfsu.ac.in

DELHI CAMPUS
LNJN National Institute of Criminology and Forensic Science
Sector-3, Outer Ring Road, Rohini, Delhi – 110 085
Ph: 011-27521091, 27514161, 27511580 | FAX: 011-27511571
Email: admin.nicfs@gov.in | Website: https://www.nicfs.gov.in

MINISTRY OF HOME AFFAIRS

राष्ट्रीय न्यायालयिक विज्ञान विश्वविद्यालय
(राष्ट्रीय महत्त्व का संस्थान, गृह मंत्रालय, भारत सरकार)
National Forensic Sciences University
(An Institution of National Importance under Ministry of Home Affairs, Government of India)

NFSU

6   Cost of new development will be mutually decided by NFSU and Marwadi University.

7   All Modules should be certified by Committee.

8   Payments will be made as per the terms of NFSU after work satisfactory service report in phase wise manner upon GO LIVE date of various modules. Penalty will be levied of modules are not ready after 8 months. Penalty will be 0.5% per week of the PO value.

9   NFSU GST No. 24AAALN3742Q1ZO.

10   Payment dividend per module and to be paid after each module completion.

You are requested to complete the order on urgent basis.

Thanking you,

Yours Faithfully,

Executive Registrar
National Forensic Sciences University
Gandhinagar

Copy to:
(1) Campus Director, National Forensic Sciences University, Gandhinagar
(2) Dean Academics, National Forensic Sciences University, Gandhinagar
(3) Controller of Examination, National Forensic Sciences University, Gandhinagar
(4) Dy. Registrar (Academics & Legal), National Forensic Sciences University, Gandhinagar
(5) Dy. Registrar (Admin), National Forensic Sciences University, Gandhinagar
(6) Dy. Registrar (Co-Ordination), National Forensic Sciences University, Gandhinagar
(7) Senior Accounts Officer, National Forensic Sciences University, Gandhinagar
(8) Accounts Officer, National Forensic Sciences University, Gandhinagar

GANDHINAGAR CAMPUS
Sector-9, Gandhinagar, Gujarat – 382 007
Ph: 079-23977102/103 | FAX: 079-23247465
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MARWADI CHANDARANA GROUP

Parin Ramavat <parin.ramavat@marwadieducation.edu.in>

Purchase Order for ERP Software

Purchase Departments <purchase_gnr@nfsu.ac.in>   Wed, Jul 6, 2022 at 11:17 AM
To: Parin Ramavat <parin.ramavat@marwadieducation.edu.in>, Marwadi College <info@marwadiuniversity.ac.in>
Cc: "Dr. Jayrajsinh Sarvaiya" <jayrajsinh.sarvaiya@nfsu.ac.in>

Dear Sir.

We are sending herewith a copy of the order to you. Please acknowledge the receipt of the same. Please arrange to send the security deposit immediately.

Note. : - The payment can be made only after receipt of the security deposit.

With Regards

खरीद शाखा | Purchase Branch
गुजरात कैंपस | Gujarat Campus
राष्ट्रीय न्यायालयिक विज्ञान विश्वविद्यालय |National Forensic Sciences University
गृह मंत्रालय, भारत सरकार द्वारा घोषित राष्ट्रीय महत्व का संस्थान | [An Institution of National Importance]
गृह मंत्रालय, भारत सरकार ! Ministry of Home Affairs, Government of India
सेक्टर - 9 | Sector-9,
गांधीनगर गुजरात 382007 | Gandhinagar Gujarat 382007

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478K

VARDHAMAN COLLEGE OF ENGINEERING
(AUTONOMOUS)
Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with A++ Grade,
UGC "College with Potential for Excellence" and ISO 9001:2015 Certified
(JNTUH College Code : 88)

WORK ORDER

Name and Address of the supplier:		
M/S Marwadi Technologies Pvt. Ltd.	P.O No. :	VCE/Office/2022-2023/020
Rajkot (Gujarat)	Date :	24-01-2023
INDIA.	Your Quotation :	Mail
	Ref.Date :	23-01-2023
Mob: +91 90999 39554	Our Ref. No. :	Nil
Email : parin.ramavat@marwadieducation.edu.in	Page(s) :	01

Note: The Ordered/Provided/Supplied below must comply with all our specification/requirement

S.No	Description	No. of Resources	Unit Price	Total Cost Rs.
1	Scope of Work a) HR b) Student Section c) Administration d) Academic (Exam point of View) e) Examination f) Inventory g) Fees h) Hostel & Transportation i) Library	N/A	N/A	N/A
2	Modules listed above(S.No-1) + E assessment Module (Android mobile app + Desktop module for E assessment) & One time Setup cost including 5 days onsite training.	N/A	42,00,000/-	42,00,000/-
			GST 18%	7,56,000/-
			Total Deployment Cost	49,56,000/-

(In Words Rupees Forty Nine Lakh Fifty Six Thousand Only)

Ship To:*Principal*, VARDHAMAN COLLEGE OF ENGINEERING
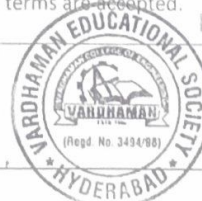Kacharam (village), Shamshabad (Mandal) Ranga Reddy (Dt.)

Overall Terms & Conditions:

1) AMC: An annual maintenance cost (applicable after 3 rd. year from the date of purchase order, irrespective of the Go LIVE date) will be charged @10% of License cost (Billed Annually in advance).

2) Payment Terms: As per Quotation & TDS will be deducted from base amount and will issue TDS certificate.

3) Third party Integrations, New Development, Support during AMC/Scope of AMC , Data Migration, Additional Customizations exercise, Clause, Limitations of Liability & Terminations as per quotation

4) Delivery: Immediate

5) Estimated Project Cost is maximum of Rs.42,00,000/- to complete above modules and **GO LIVE**.

6) The software will be provided in executable format to the College. The package legal/copy rights and master setup, source codes, designs, database structures, process methodologies, intellectual property, all rights will be given to the College after the engagement period as mentioned in Quotation.

Special Instructions:

1. The Invoice description should be inline with our Work Order Description.

2. Please quote PO number and date in all correspondence.

3. Our banker address: Central Bank of India, Gudimalkapuram Branch, Mehdipatnam.

4. Supplier should acknowledge receipt of PO and agreement of terms mentioned in PO. Unless otherwise specified in writing by the supplier within seven days, it is considered that all terms are accepted.

Vardhaman Educational Society
For Vardhaman College of Engineering

Vendor/Supplier Acknowledgement	
Order Accepted	
Authorized Signature	Secretary

08	Hostel & Transportation
	Hostel and Transport Configurations ,Fees Management ,Admission Management ,Refunds ,Student Gate Pass , Student Attendance (Biometric Integration), Transport management
09	Library
	Catalogue Management ,Issue Process, Return Process, Online Catalogue (OPAC),Integration with student Login for transactions history

Payment details:

(Exclusive of any taxes applicable)

NO.	Element	PRICE
01.	Modules listed above + E assessment Module (Android mobile app + Desktop module for E assessment)	₹ 42,00,000 + Tax
02.	One time Setup cost 5 days onsite training included.	₹ 0 + Tax
03.	Third Party Integration Like RFID, Tally, Scanners for answer book scanning and Moodle etc.	Decided whenever requirement will be raised.
04.	New Development Cost	Decided whenever requirement will be raised.
05.	Annual Maintenance Cost. (Payable at 3rd, 4th and 5th Year)	10% of actual deal
06.	Support 1.) On Site Support during AMC	₹5000 per man day
07.	Data Migration Cost	₹5000 per man day
08.	For additional customization: For all major changes/modifications, customization charges (The man-days will be mutually agreed upon before embarking on the customization exercise) • Minor customization: Any change in filed names, report formats, field additions on forms that do not impact any workflow change will be considered as a minor change. • Major customization: Introducing new feature, additions of workflows, changes impacting existing workflows, new form creations, will be considered as a major customization	₹10000 per man day

Payment Terms & Conditions:

• 30 % advance of value along with purchase order

We are not liable for your default: We will not be liable for any loss or damage suffered by you arising out of or in connection with any breach of the agreement by you or any act, misrepresentation, error or omission made by or on behalf of you or your personnel.

Other goods or services: We are not liable for any other deliverable, including website, goods, or service provided by any third party

Indemnity: Each party agrees to indemnify, defend and hold the other party (and their personnel) harmless against any and all:

- Breach of a warranty under this agreement; and

- Loss, damage (including attorneys' fees on an attorney and own client basis), costs and expenses that the other party may suffer or incur arising directly or indirectly from: (i) any gross negligence, willful misconduct or fraud by the party or the party's personnel; or (ii) a breach by the party of the other party's proprietary or confidential information, or intellectual property.

Indemnitees: Where anything in this agreement requires a party to indemnify the other party, such indemnification will also include the other party's affiliates, as well as the other party or their affiliate's respective directors, officers, employees, agents, successors and assigns.

Termination

- This Agreement may be terminated by either party upon 180 days' written notice served on the other party in the event of consistent breach of terms herein agreed after failure to remedy that breach within a reasonable time. Termination of this Agreement for any reason shall not relieve either of the parties of any obligations accruing prior to such termination.

Mob. : +91 90999 39554 | Email : parin.ramavat@marwadieducation.edu.in
Mb411 - Marwadi University Campus, Rajkot-Morbi Road,
Rajkot 360 003 Gujarat, India.

www.marwaditechnologies.com

- It will be four years contract including one year of AMC. From second year the AMC will be charged
- Any bugs / doubts / incidents should be raised as a ticket through the support portal.
- Payment Milestones will not be altered if delay is caused by client side.

Clause

- The price is exclusive of any taxes applicable, as per of the rule of the land during the time of the payment.
- VARDHAMAN COLLEGE OF ENGINEERING needs to take care of the Travelling Cost, Boarding, Lodging and food arrangements for the deployed consultants during their onsite stay for the specified timelines for carrying the project activities.
- Payments once made are non-refundable
- Any onsite involvement, other than mentioned in the Proposal above will be charged at the per man-day cost in addition to travel, lodging, boarding, food expenses of the consultant
- VARDHAMAN COLLEGE OF ENGINEERING will not hire directly/indirectly any Technical employee of Marwadi University/Marwadi Education Foundation /Marwadi Technologies during the period of engagement and until 5 years from the end date of engagement with Marwadi Technologies.
- Marwadi Technologies will be and remain the sole owner of all legal rights including copyrights over all artifacts produced by the Marwadi Technologies' team, including but not limited to, source codes, designs, database structures, process methodologies and any other document/intellectual property produced during the subject of the engagement with VARDHAMAN COLLEGE OF ENGINEERING.
- The project commercials are valid for a period of 30 days from the date mentioned in the proposal
- IN WITNESS THEREOF, VARDHAMAN COLLEGE OF ENGINEERING & Marwadi Technologies , have caused this Agreement to be signed and delivered by their duly authorized officers, in duplicate or counterpart originals, which taken together shall constitute a single agreement all as of the date noted below.
- VARDHAMAN COLLEGE OF ENGINEERING will be the sole owner of data and Marwadi Technologies will not share data to other entities.

Limitation of Liability

Direct damages limited: To the extent permitted by applicable law, regardless of the form (whether in contract, delict or any other legal theory) in which any legal action may be brought, neither party will be liable to the other for any damages or loss related to any loss of business, contracts, profits, anticipated savings, goodwill or revenue, or loss or corruption of data. Our maximum liability to you for direct damages
For anything giving rise to any legal action will be an amount equal to the 50% of the fees already paid by you to us for the services related to the claim for the 12 calendar months immediately preceding the claim. The aggregate amounts for all claims will not be greater than the maximum amount.

Indirect damages excluded: To the extent permitted by applicable law, in no event will we (or our personnel) be liable for any indirect, incidental, punitive, exemplary, special or consequential damages or losses (whether foreseeable or unforeseeable) of any kind (including loss of profits, loss of goodwill, damages relating to lost or damaged data or software, loss of use, damages relating to downtime or costs of substitute products) arising from the agreement.

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Rajkot 360 003 Gujarat, India.

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marwadi technologies

Proposal

- 30 % payment after deployment of system or within 1 month (whatever earlier).
- 40 % payment after final meeting or within 2 months (whatever earlier).

Infrastructure Requirement for Hosting at VARDHAMAN COLLEGE OF ENGINEERING:

NO.	Element	Specification
01.	Centralized Server	Quad Core Processor 3.1. Ghz 8 MB Cache 1333 MHz, 1x16GB Memory 2 x 1 TB SATA 7.2k RPM, 3.5" Simple Swap DVD ROM, Integrated RAID Operating System : Windows Server
02	Software	Language : Microsoft .net Database : MS SQL Server 2014 Web Server :IIS

Annual Maintenance:

An annual maintenance cost (applicable after 3rd year from the date of purchase order, irrespective of the Go LIVE date) will be charged @10% of License cost (Billed Annually in advance).

Scope of AMC:

1) Remote training sessions of 6 Man days per year.
2) Remote support limited to bug fixing around the year.

Out of Scope:

- Infrastructure requirement in the form of web-servers, database servers, barcode readers, Swipe card reader, printers, RFID devise, Punch machine etc.
- Providing the backend software required for the functioning of the delivered ERP solution. Backend Software here means operating system, database software as SQL Server, operating systems etc.
- Installation and deployment of any such hardware, back-end software and networking solution.
- Providing the infrastructural support such as Internet connectivity, wires, networking etc.
- Providing the stationeries in forms of papers, pens, cartridges, markers etc.
- Carrying out of User Acceptance Testing by Marwadi Technologies on behalf of client.
- Customization and support of the above modules beyond the stipulated period of support
- Any other thing not mentioned in "In scope" under scope of work
- Google Play store and Apple store subscription

Overall Terms & Conditions

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Mb411 - Marwadi University Campus, Rajkot-Morbi Road,
Rajkot 360 003 Gujarat, India.

www.marwaditechnologies.com

marwadi
technologies

Proposal

Proposal Date
23rd Jan, 2023

To,
Vardhaman College of Engineering
Shamshabad – 501218 Hyderabad,
Telangana, India

From,
Marwadi Technologies Pvt. Ltd.
Rajkot (Gujarat) INDIA.

Respected Sir,

Please refer below proposal for VARDHAMAN COLLEGE OF ENGINEERING Campus Automation. This proposal will be based on Requirement shared by VARDHAMAN COLLEGE OF ENGINEERING authorities.

Scope of Work:

NO.	Modules
01.	**HR** Employee Registration / Creation Process ,Basic Details ,Experience ,Photographs ,Documents scanning and Preservations, Salary Management, Salary Slip ,Leave Management (Entitlements ,Applications , Approvals),Recruitments , Employee Attendance (Biometric Integration), Employee web login
02	**Student Section** Student Enrollment ,Academic records preservations ,Photographs ,Documents Scanning and preservations, Admission Cancellations, International student enrollments, Student web login, Course and Intake management ,Circulars and Notice management ,Student interactions
03	**Administration** Inventory, Security ,Hostel, Guest House ,Housekeeping, Canteen, Maintenance, SMS Verification Hostel App (Standalone desktop application for back office processes)
04	**Academic (Exam point of View)** Subject Creation and management, Student wise course wise subject management ,Syllabus Planning
05	**Examination** Online Exam Form ,Exam Fees Management ,Exam Schedules ,Exam Block Management ,Hall Tickets ,Question Paper uploads and Selection, Exam Supervision Management Exam Reassessment, Printings (Formats and Barcodes),Exam Result Management ,Result Metrix and reports
06	**Inventory** Item Code Management ,Vendor Management, Material Requisitions ,Purchase Requisitions ,Purchase Orders ,Material Inwards (GRNs),Outwards Stocks ,Asset Management ,Bills Management
07	**Fees** Fees Types Management ,Fees Structure ,Fees Dues and Receivable Management ,Fees Collections and Receipts ,Collections Reports ,Scholarships ,Payment Gateway Integrations

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Rajkot 360 003 Gujarat, India.

www.marwaditechnologies.com

DR. SUBHASH
UNIVERSITY

Purchase No.:DSEC/June-2022/PO-No.01

Date: June 10, 2022

TO,
Marwadi University
Rajkot- Morbi Highway,
Rajkot- 360003, Gujarat, India.

Subject : Procure ERP System

Dear Sir/Mam,

In reference to above referred subject, our management is pleased to place a purchase order for complete ERP software as mentioned in your mailed quotation dated 06-06-2022, for our campus as discussed with you.

You will provide proper and full-fledged training to our staff members for the proper utilization of software. All the terms and conditions mentioned in the quotation remains the same and are binding to both the sides mutually.

Kindly arrange to provide below mentioned services for Dr. Subhash University.

Sr. No.	Item Name	Amount
1	**UniRP with 9 Modules**	₹ 28,50,000.00
	HR, Student Section, Administration, Academic, Examination, Inventory, Fees, Hostel, Library	
2	**AMC for 3 Years**	₹ 8,55,000.00
3	**On-Site Support (per man day)**	₹ 5,000.00
4	**Data Migration Cost**	₹ 5,000.00

Terms & Conditions:

1. AMC for first year will be included and no extra payment is to be made.
2. Remote Training Session of 6-man days per year will not be charged extra.
3. Remote Support regarding bug fixing will not be charged extra.
4. Minor Customization like any changes in field names, report formats, field additions on forms that do not impact any workflow change will not be charged extra.
5. Cost of Third-Party Integration like RFID, Tally and Moodles will be decided mutually by DSU and Marwadi University.
6. Cost of new development will be mutually decided by DSU and Marwadi University.

Thanking you

Registrar
Dr. Subhash University
Junagadh

Dr. Subhash Road, Junagadh - 362 001
Ph.: (0285) 2610055, | Mail : info@dsuni.ac.in | Web : www.dsuni.ac.in