



MICROSYS AUTOMATION

***INFORMATION AND AUTOMATION SYSTEMS

DATE: 02/11/2024

Subject: Sanction of research project -

"Development of Handheld Portable Ultrasound System"

We are pleased to approve the funding of the project "Development of Handheld Portable Ultrasound System" under the guidance of **Mr. V N PRUDHVI RAJ** Department of Electronics and Instrumentation Engineering, Velagapudi Ramakrishna Siddhartha Engineering College, Kanuru, Vijayawada, Andhra Pradesh at a total cost of Rs **2,00,000** (Rs Two Lakh only). The objectives of the project is to design and implement a compact handheld ultrasound system, to integrate the Xilinx ultrasound IP core with FPGA for real-time signal processing, to develop an analog front end for optimal signal acquisition and processing and to create an intuitive user interface for healthcare professionals.

BUDGET BREAKDOWN (in Rupees)		TIMELINE (in months)	
Hardware and software components procurement and product development	1,80,000/-	Requirements gathering & design development	6
Design and fabrication of enclosures	10,000/-	Implementation testing and calibration	15
Contingency	10,000/-	Documentation and training	3

The expected outcomes of project are fully functional handheld portable ultrasound system, Comprehensive documentation covering design, operation, and maintenance, Training materials for end-users, Opportunities for commercialization and further enhancements based on user feedback.

The approval of the project is subject to fulfillment of the following:

Individual and the Department commitment for Non Disclosures in terms of project information sharing, confidentiality and full adherence to governance, risk and compliance, Acknowledgment of the fact that intellectual property rights pertaining the project and information (including source code) generated belongs to M/s Microsys Automation, On completion of the project, the individual should submit the developed system (both hardware and software) and a comprehensive report covering total project activities to M/s Microsys Automation.

For M/s Microsys Automation

Authorized Signatory

