

AUTOMATED UNIVERSAL HYGIENIC FOOD PROCESSING MACHINE

N DINESH KUMAR¹, CHINTAM V B ADITYA KUMAR², E SWETHA³ & P. ANIRUDH SRINIVAS⁴

^{1,2}Associate Professor –Electronics & Instrumentation Engineering, Vignan Institute of Technology & Science,
Deshmukhi, Nalgonda(D), Andhra Pradesh, India

^{3,4}UG Student – Electronics & Instrumentation Engineering, Vignan Institute of Technology & Science, Deshmukhi,
Nalgonda(D), Andhra Pradesh, India

ABSTRACT

The aim of this paper is to evaluate the advantages of Low Cost Industrial Automation such as repeatability, tighter quality control, waste reduction and Integration with business system, Increased productivity and Reduction of labor in the small scale sector in one of the largest countries by population and the fastest growing economy, India. The application of Low Cost Automation (LCA), particularly in small scale industries with simple usage of devices like pneumatic, hydraulic actuators with electrical control to the existing conventional methods will make the automation at low cost to yield higher productivity. This paper was taken up with a view to improve the present system of food process using PLC with low cost automation technique. The main objective of this paper is to show the reduction of manual work, increase the throughput and maintain a hygienic environment with same taste as made by the manual process. It is Very much useful for food industry ranging from small to star hotels.

KEYWORDS: Ladder Network, LCA, Payback Period, PLC, Step-7