

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA



THEME THE ROLE OF ENGINEERING AND **TECHNOLOGY IN SUSTAINABLE DEVELOPMENT**





DATE: 24TH - 26TH SEPTEMBER 2019

VENUE!

CHEMICAL ENGINEERING LECTURE THEATEN SEDERAL UNIVERSITY OF TECHNOLOGY, MINNA, NIGER STATE

EDITED BY

ENGR. DR. S.M. DAUDA, ENGR. DR. A.U. USMAN, ENGR. DR. U.S. DAUDA, ENGR. M. ABUBAKAR, ENGR. DR. E.A. AFOLABI, ENGR. DR. I.M. ABDULLAHI, ENGR. DR. (MRS) I.H. MUSTAPHA, ENGR. A.S. AHMAD, ENGR. J.G. AMBAFI. ENGR. T.A. FOLORUNSO, ENGR. U.U. BUHARI, ENGR. DR. OPE OSA



3rd International Engineering Conference (IEC 2019) Federal University of Technology, Minna, Nigeria



ASSESSEMENT OF QUALITY CONTROL MANAGEMENT IN SACHET WATER PACKAGING

T.J Bolaii and A.A. Abdullahi

Department of Mechanical Engineering, Federal University of Technology, Minna,
P.M.B. 65, Minna, Niger State, Nigeria.

ABSTRACT
Too many Small and Medium Enterprises (SMEs), the applicability and utility of Quality Control Management (QCM) remains a challenge. It is generally recognized that (SMEs) face unique challenges, which affect their (QCM) remains a challenge. It is generally recognized that (SMEs) face unique challenges, which affect their governments as the contribute of the co

Keywords: Acceptable defectives, defective, control chart, non-defective, sachet water, sample size.

1 INTRODUCTION

Small and Medium Industries (SMIs) have been widely acknowledged as the springboard for sustainable economic development. According to Deming (1986) developing countries including Nigeria, have since the 1970s shown increased interest in the promotion of small and medium scale enterprises for three main reasons: the failure of past industrial policies to generate efficient selfsustaining growth; increased emphasis on self-reliant approach to development and the recognition that dynamic and growing SMIs can contribute substantially to a wide range of developmental objectives. These objectives include efficient use of resources, employment creation, mobilization of domestic savings for investments, encouragement, expansion and development of indigenous entrepreneurship and technology as well as income distribution, among others.

In today's world, organizations are facing the growing challenges from global competition and more sophisticated customers in terms of what they want and their changing needs. Competition has become a major challenge which chief executives must meet effectively to

remain in business. Organizations have started adopting appropriate management strategies in the field of quality, to succeed in the market place and small scale enterprises are of no exception. Most managers agree that for an organization to be successful it must change continually in response to significant development, such as customer needs, technological breakthroughs and government regulations (Eke, 2001). Globalization of market and operations forces organizations to rethink their quality problems and in turn their overall organization competitiveness. In order to be successful in this global market, organizations should dedicate themselves to improving productivity and quality in a timely and collaborative manner (Dobyns and Crawford, 1994). Quality Control Management (QCM) techniques. supported by management commitment and good organization will provide objective means of improving quality and hence the overall organizatios competitiveness. QCM is an integrated approach to satisfy internal and external customers, planning and managing processes. It involves quality planning, quality control, quality assurance and quality improvement. It is among the new techniques that modern organizations now