

GLOBAL JOURNAL

OF MANAGEMENT AND BUSINESS RESEARCH: C

Finance

Energy Prices & Financial Performance

Effect of Ethical & Professional Values

Highlights

Three Nationalized Commercial Banks

Empirical Analysis of Capital Structure

Discovering Thoughts, Inventing Future

VOLUME 19

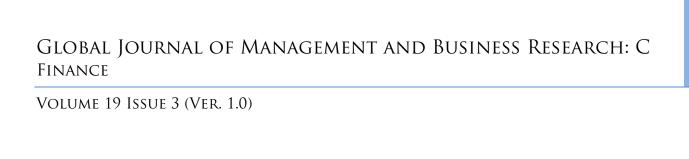
ISSUE 3

VERSION 1.0

© 2001-2019 by Global Journal of Management and Business Research, USA



Global Journal of Management and Business Research: C Finance



© Global Journal of Management and Business Research. 2019.

All rights reserved.

This is a special issue published in version 1.0 of "Global Journal of Science Frontier Research." By Global Journals Inc.

All articles are open access articles distributed under "Global Journal of Science Frontier Research"

Reading License, which permits restricted use. Entire contents are copyright by of "Global Journal of Science Frontier Research" unless otherwise noted on specific articles.

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without written permission.

The opinions and statements made in this book are those of the authors concerned.

Ultraculture has not verified and neither confirms nor denies any of the foregoing and no warranty or fitness is implied.

Engage with the contents herein at your own

The use of this journal, and the terms and conditions for our providing information, is governed by our Disclaimer, Terms and Conditions and Privacy Policy given on our website http://globaljournals.us/terms-and-condition/

By referring / using / reading / any type of association / referencing this journal, this signifies and you acknowledge that you have read them and that you accept and will be bound by the terms thereof.

All information, journals, this journal, activities undertaken, materials, services and our website, terms and conditions, privacy policy, and this journal is subject to change anytime without any prior notice.

Incorporation No.: 0423089 License No.: 42125/022010/1186 Registration No.: 430374 Import-Export Code: 1109007027 Employer Identification Number (EIN): USA Tax ID: 98-0673427

Global Journals Inc.

(A Delaware USA Incorporation with "Good Standing"; Reg. Number: 0423089)
Sponsors: Open Association of Research Society
Open Scientific Standards

Publisher's Headquarters office

Global Journals® Headquarters 945th Concord Streets, Framingham Massachusetts Pin: 01701, United States of America USA Toll Free: +001-888-839-7392 USA Toll Free Fax: +001-888-839-7392

Offset Typesetting

Global Journals Incorporated 2nd, Lansdowne, Lansdowne Rd., Croydon-Surrey, Pin: CR9 2ER, United Kingdom

Packaging & Continental Dispatching

Global Journals Pvt Ltd E-3130 Sudama Nagar, Near Gopur Square, Indore, M.P., Pin:452009, India

Find a correspondence nodal officer near you

To find nodal officer of your country, please email us at *local@globaljournals.org*

eContacts

Press Inquiries: press@globaljournals.org
Investor Inquiries: investors@globaljournals.org
Technical Support: technology@globaljournals.org
Media & Releases: media@globaljournals.org

Pricing (Excluding Air Parcel Charges):

Yearly Subscription (Personal & Institutional) 250 USD (B/W) & 350 USD (Color)

EDITORIAL BOARD

GLOBAL JOURNAL OF MANAGEMENT AND BUSINESS RESEARCH

Dr. John D. Theodore

American Military University

JDT Management Consultants, President.

D.B.A., Business Economy

University of South Africa

Ph.D. Aristotelian University

Business Administration

Ph.D. Administration, University of Kansas

USA

Dr. R. Allen Shoaf

B.A., M.A., Ph.D. Cornell University

Cornell University, Teaching Assistant in the English

Department,

University of Florida, US

Dr. Mehdi Taghian

Senior Lecturer

Faculty of Business and Law

BL Deakin Business School

Melbourne Burwood Campus

Australia

Dr. Agni Aliu

Ph.D. in Public Administration,

South East European University, Tetovo, RM

Asociater profesor South East European University,

Tetovo, Macedonia

Dr. Wing-Keung Won

Ph.D., University of Wisconsin-Madison,

Department of Finance and

Big Data Research Center

Asia University,

Taiwan

Prof. Moji Moatamedi

Honorary Vice Chair

Ph.D., at The University of Sheffield,

MBA, Manchester Business School

University of Manchester

UK

Professor Maura Sheehan

Professor, International Management

Director, International Centre

for Management & Governance Research (ICMGR)

Ph.D. in Economics

UK

Dr. Carl Freedman

B.A., M.A., Ph.D. in English, Yale University

Professor of English, Louisiana State University, US

Dr. Tsutomu Harada

Professor of Industrial Economics

Ph.D., Stanford University, Doctor of Business

Administration, Kobe University

Dr. Xiaohong He

Professor of International Business

University of Quinnipiac

BS, Jilin Institute of Technology; MA, MS, Ph.D.,.

(University of Texas-Dallas)

Dr. Carlos García Pont

Associate Professor of Marketing

IESE Business School, University of Navarra

Doctor of Philosophy (Management),

Massachussetts Institute of Technology (MIT)

Master in Business Administration, IESE, University of

Navarra

Degree in Industrial Engineering,

Universitat Politècnica de Catalunya

Web: iese.edu/aplicaciones/faculty/facultyDetail.asp

Dr. Bassey Benjamin Esu

B.Sc. Marketing; MBA Marketing; Ph.D Marketing

Lecturer, Department of Marketing, University of Calabar

Tourism Consultant, Cross River State Tourism

Development Department

Co-ordinator, Sustainable Tourism Initiative, Calabar,

Nigeria

Dr. Ivona Vrdoljak Raguz

University of Dubrovnik,

Head, Department of Economics and Business

Economics,

Croatia

Dr. Charles A. Rarick

Ph.D.

Professor of International Business

College of Business

Purdue University Northwest

Hammond, Indiana US

Dr. Albrecht Classen

M.A. (Staatsexamen), Ph.D. University of Virginia,

German

Director, Summer Abroad Program, Medieval Europe

Travel Course

Dr. Söhnke M. Bartram

Department of Accounting and Finance

Lancaster University Management School

Ph.D. (WHU Koblenz)

MBA/BBA (University of Saarbrücken)

Web: lancs.ac.uk/staff/bartras1/

Dr. Dodi Irawanto

Ph.D., M.Com, B.Econ Hons.

Department of Management

Faculty of Economics and Business

Brawijaya University

Malang, Indonesia

Dr. Yongbing Jiao

Ph.D. of Marketing

School of Economics & Management

Ningbo University of Technology

Zhejiang Province, P. R. China

Yue-Jun Zhang

Business School,

Center for Resource and

Environmental Management

Hunan University, China

Dr. Brandon S. Shaw

B.A., M.S., Ph.D., Biokinetics, University of Johannesburg,

South Africa

Professor Department of Sport and Movement Studies

University of Johannesburg, South Africa

CONTENTS OF THE ISSUE

- i. Copyright Notice
- ii. Editorial Board Members
- iii. Chief Author and Dean
- iv. Contents of the Issue
- 1. Effect of Ethical and Professional Values on the Operations of Deposit Money Banks in Nigeria. *1-8*
- 2. An Empirical Analysis of Capital Structure and Firm's Financial Performance in a Developing Country. *9-16*
- 3. Energy Prices and the Financial Performance of Different Industries in Pakistan. 17-29
- 4. Comparison and Analysis of Profitability of Top Three Nationalized Commercial Banks in Bangladesh. *31-35*
- 5. Microfinance –A Device to Empower Women. *37-41*
- v. Fellows
- vi. Auxiliary Memberships
- vii. Preferred Author Guidelines
- viii. Index



Global Journal of Management and Business Research: C Finance

Volume 19 Issue 3 Version 1.0 Year 2019

Type: Double Blind Peer Reviewed International Research Journal

Publisher: Global Journals

Online ISSN: 2249-4588 & Print ISSN: 0975-5853

Effect of Ethical and Professional Values on the Operations of Deposit Money Banks in Nigeria

By Tajudeen T. Lawal, Rufus Y. Adeyemi & Dauda A. Morakinyo

Jomo Kenyatta University of Agriculture & Technology

Abstract- This study examined the effect of ethical and professional values based on the socio-economic factors affecting banking operations of deposit money banks in Nigeria. Prior studies have not dwelt or investigated extensively on ethical and professional practices by banks especially in developing world like Nigeria. Hence, there is the need to evaluate the effectiveness, enforcement and compliance by banks of the codes of ethics and professionalism for the banking industry in Nigeria. Mixed research design method employed with the aid of primary data collected through close ended structured questionnaire from 200 respondents purposively selected from the commercial deposit money banks and three core regulatory institutions for the industry. Both descriptive and inferential statistics were employed to analyze the data and the hypothesis tested with Pw and Kendall's Tau Correlation Coefficients. Findings revealed that the level of ethical and professional competence have not improved as expected.

Keywords: code of ethics, professional value, enforcement mechanism, business environment.

GJMBR-C Classification: JEL Code: E51



Strictly as per the compliance and regulations of:



© 2019. Tajudeen T. Lawal, Rufus Y. Adeyemi & Dauda A. Morakinyo. This is a research/review paper, distributed under the terms of the Creative Commons Attribution-Noncommercial 3.0 Unported License http://creativecommons.org/licenses/by-nc/3.0/), permitting all non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited.

Effect of Ethical and Professional Values on the Operations of Deposit Money Banks in Nigeria

Tajudeen T. Lawal a, Rufus Y. Adeyemi & Dauda A. Morakinyo

Abstract- This study examined the effect of ethical and professional values based on the socio-economic factors affecting banking operations of deposit money banks in Nigeria. Prior studies have not dwelt or investigated extensively on ethical and professional practices by banks especially in developing world like Nigeria. Hence, there is the need to evaluate the effectiveness, enforcement and compliance by banks of the codes of ethics and professionalism for the banking industry in Nigeria. Mixed research design method employed with the aid of primary data collected through close ended structured questionnaire from 200 respondents purposively selected from the commercial deposit money banks and three core regulatory institutions for the industry. Both descriptive and inferential statistics were employed to analyze the data and the hypothesis tested with Pw and Kendall's Tau Correlation Coefficients. Findings revealed that the level of ethical and professional competence have not improved as expected. Furthermore, a weak correlation was established between the socio-economic factors and the level of ethical and professional banking practice in the industry with -0.3135 and -0.2510.lt was concluded by the study that commercial banks in Nigeria have not improved significantly on adherence to the ethical and professional codes of conducts of the profession. Compliance to shared ethical and professional values have not been adequate among the banks. The study revealed that poor socio-economic business environment, the obsolete code of ethics, ineffective communication system, poor employment methods and inadequate training were responsible for the poor ethical and moral standard. It was suggested that adequate training facilities and funding must be considered by banks as a means of enhancing ethical and professional values in the Nigerian banking system and in deed to other businesses.

Keywords: code of ethics, professional enforcement mechanism, business environment.

Introduction

anking business as a form of business organization are globally accepted as the bedrock of any nation's economy and thereby serve as the wheel of economic growth and development in both developed and underdeveloped economies of the world (Ifionu et.al. 2016; Akhtar et. al. 2010 & Auta 2010). Corroborating this assertion,

Author a: PhD. Department of Economics, Accounting & Finance. College of Human Resource & Development (COHRED), Jomo Kenyatta University of Agriculture & Technology, Nairobi-Kenya. (Corresponding Editor).e-mail: deenlaw13@gmail.com

Author σ: Department of Economics, Accounting & Finance, College of Human Resource & Development (COHRED), Jomo Kenyatta University of Agriculture & Technology, Nairobi-Kenya.

Author p: Faculty of Management Sciences, Department of Business Administration, Okuku campus, Osun State University, Osogbo-Nigeria.

Ebenezer et. al. (2010) submitted that banks are highly preserved, regulated and monitored worldwide. Banking is an age long profession and its origins can be traced to the London goldsmiths of the 17th century which began the acceptance of deposits of coin and other valuables, royal mint from merchants and wealthy people alike. (Doyle & Kelly, 1981). Section 61 of the Banks and Other Financial Institutions Act. 1991 defined banking business in Nigeria extensively as the business of receiving deposit on current, savings or other accounts, paying or collecting cheques drawn or paid in by customers, provision of finance et cetera under the auspices of the Governor of the Central Bank of Nigeria as may be designated as banking business. As a dynamic business, an allowance for reform in line with economic realities of Nigeria was provided. Banking business was first introduced into the Nigerian economy in 1892 through African Banking Corporation and Bank of British West Africa in 1894 and this can be grouped into banking phrases as a way of classifying them into distinct banking developmental stages (Okonkwo, 1991; Goldface-Irokalibe, 2010).

Banking business needs to be properly and continuously regulated due to the pivotal roles it is expected to play in the economy, therefore there is the need to constantly review and reform its procedures, processes, methods, values, peoples' orientation, attitude and behaviors towards banking service both at the providers' end (staff, investors) and the receivers' end (customers and society). Against the backdrop of financial regulation and supervision, this can be associated with moral hazard, government safety net arrangements that are designed to protect the banking and financial system (Barbara et.al. 2006). High professional and ethical standards are critical to the continued existence of the banking sector since they trade on money, which they held in trust for the depositors (fiduciary function). Auta et.al. 2010 submitted that banks engaged in financial intermediary role in any economy all over the world.

Ethics in banking business is to direct businessmen and women in banking to abide by certain codes of conducts that can facilitate and increase public services and confidence in the delivery of banking services as well as increase its utility to all its stakeholders. Odozi (2007) in defining "ethics as the rules or principles of appropriate behavior or conduct for bankers. More specifically, it relates to principles of morality and encompasses doing what is good and right, even when that will bring us some pain". Adelabu (2008) expatiated that ethics is the study of moral principles, beliefs, attitudes and how people should conduct or behave in social interactions. Therefore, personal, business and professional ethics have consciously or/and unconsciously evolved over time in order to regulate, control and improve banking service delivery professionally. Professional ethics involve the standards of competence and practice or code of conduct expected of the professionals or trade group or association, both written and unwritten. However when ethics and professionalism are combined as professional ethics, it involves a nexus of written and unwritten worms and best practices such as honesty, intearity. competence, loyalty transparency, accountability et cetera. (Odozi, 2007). Ethical and professional standard must be set by the individual employee, group organization and professional bodies so as to prevent human excesses in terms of greed. Just for power, fraud and other malpractices usually exhibited by people (bankers).

Adewumi (2002) reported that ethical standard is the level of behavior or conduct that is considered or adjudged morally right and acceptable by people. It is a just and fair conducts which goes beyond observing the normal laws, rules and regulations but includes the intrinsic display of high level of discipline, intelligence, perseverance, honesty, transparency, fairness and morals. It includes a set of generally acceptable and practice standards of ethical and moral issues involving dilemmas and conflict of interests from the individuals, groups and organizations alike. Adewunmi (2002) therefore remarked that, the fluidity of human behavior in response to environmental challenges has made ethics and professionalism a dynamic process that requires academic studies. Ethics is proactive since it focuses on doing "good" while morality emphasizes not doing harm or avoiding harm to others (Fisher & Lovell 2003). Honesty can also be linked with trust and confidence, strong belief in doing good always, reliability and belief in doing the right thing (ethics).

Confidence is confiding in or telling ones secret or person who is trusted with private affairs of somebody, belief in oneself or what is said or done on behalf of others. Bank relies on public confidence which is the pivot and essence upon which financial intermediation revolves (Lawal, 2011). This journal paper has contributed to knowledge through its use of statistical and empirical analysis in contributing to the existing body of knowledge generally. The study is systematically divided into five sections: introduction incorporating statement of problem and study's literature review, research methodology, results and discussion while conclusion and recommendation makes the fifth section accordingly.

STATEMENT OF THE PROBLEM

The ethical difficulty that arise from the traits of honesty, good faith, trust and confidentiality of bankers borders on how to balance their behaviors with these traits while conducting banking transactions or during banker customer relationship especially marketing, deposit collection, credit administration, settlement of payment (cheque clearing) and account opening formalities. Omokhuale (2002) stated that unethical conduct manifests itself in various ways including violation of banking laws and contravention of professional ethics, insider abuses, fraudulent dealings (malpractices) mismanagement, poor documentation and perfection of security documents, granting of huge loans to the executives and their surrogates without due process, boardroom greed of paying inexplicable whooping bonuses to members and their cronies, et cetera. Greed, among other reasons was identified as the causative agent for high incidence of fraud and other unprofessional conduct in the Nigerian banking industry.

Nwankwo (2001) had earlier corroborated that the "crisis of confidence in the Nigerian banking sector manifested itself in technically insolvent and distressed institutions, bank failures, large portfolio of nonperforming credits, several liquidity problems, gross mismanagement, mismatch of the supervisory and abuse of executive capacity. All these problems relate to the ethical and professional standards as well as the enforcement mechanisms put in place by the industry". Some of the casual factors to the ethical and professional infractions may be due to greed of the banking personnel, poor recruitment policy, poor corporate governance, unsuitable and unqualified candidates are employed to work at some technical departments like credit risk management, corporate finance, inspection among others. Graduates from nonbanking and finance disciplines, they even employ long unemployed relations or in-laws of questionable characters who usually contaminate others (Kolawole, 2004).

According to Odozi (2007) and Lawal (2014), the summary of the common problems that are likely to promote or determine ethical and professional values for the Nigerian banking practices include among others: the recent ICT explosion ravaging the industry and the effect of e-banking services and many other unethical and professional abuses in the banking system. Inwalombe (2018) had observed that the ATMs of the banks failed their customers mostly due to their inefficient performance ranging from insufficient dispensing of funds, long queues occasioned by malfunctioning and the inadequate limit of maximum amount withdraw able per transaction. Additionally, in an attempt to showcase how important the issue of security in banking operation is, Adeduntan (2018) submitted

that the CBN has mandated all banks to create security operation centers as well as evolving the strategy of right people with right attitude, right technology, right process, and right governance for the Nigerian financial system.

All the aforementioned infractions are ethically and professionally related and attributable to the banking country's architecture, socio-economic generally infrastructure. bankers' behavior specifically technology with use of the ATMs to cope with the growing demand of the customers and the susceptibility of the machines to systems failure especially in the urban commercial centers. It is therefore imperative to conduct a research to examine and seek answers to the above and many other related auestions.

a) Objective of the study

The objective of the paper is to examine the socio-economic factors that determines ethical and professional practice and values for banks in Nigeria.

b) Research Hypothesis Statement

Ho₁: There is no significant effect of socio-economic factors on the level of ethical and professional banking practice and values in Nigeria.

LITERATURE REVIEW III.

a) Conceptual Framework

Banking business remain one of the businesses that anchors the development of any economy in the world, hence it occupies a pivotal position in either developed or underdeveloped economy. Banking business is defined by Section 61 of Banks and Other Financial Institutions Act (No.25) 1991 (as amended). Dovle and Kelly (1981), stated that "banking operation starts with opening of account(s), running of the and subsequent termination of the conceptual relationship between the customer and bank". Banking business acts as lubricant to other businesses or sectors of the economy hence, it is strategically positioned to provide the much needed financial impetus them through to intermediation process. It includes mobilizing funds from the surplus unit to the deficit unit. Kolawole (2004) submitted that to mobilize funds from other people, ethical and professional controls are usually expected of banks for effective and functional banking services.

i. Concepts of Business Ethics and its Evolution

Ethics has been variously defined by philosophers/scholars as one of the core branches of moral philosophy and as a fundamental part of the critical examination of life which dates back to pre-Socratic times and as old as the history of rational reflective thought. Ethics is defined or viewed as a normative science of human conduct that differs from the physical sciences. It deals with the standard or

principle of right or wrong, good or bad behavior. It represents an intellectual enterprise, a rational and intellectual inquiry into the language of morals and human actions or affairs for knowledge seeking as well as attempting a systematic study of human conduct (Oruka, 2007). Oke and Esikot (1999) stated that ethics is interested in only human behavior or conduct where one is able to make a choice between alternative courses of action rather than another (conflict of interest and ethical dilemma).

Ethics, derived from the Greek word "ethos" meaning distinctive moral ideas and attitudes of a people that can be regarded as "custom" or "character" while "morals" comes from the Latin word "mores" meaning custom or manner that's concerned with right or wrong, good or bad. It is a set of principles held by an individual or group or the discipline which studies those ethical principles. Duska and Duska (2006) defined ethics by stating its four basic meanings as:

- 1. The discipline dealing with what is good and bad and with moral duty and obligation.
- 2. A set of moral principles or values.
- 3. A theory or system of moral values; and
- 4. The principles of conduct governing an individual or group.

The Chicago Journals of moral, political and legal philosophy in 2010 defined ethics as a system of moral principles, a culture and it is known as moral philosophy which seeks to address questions about morality per se. Okoduwa (2007) also defined ethics as moral principles that control or influences a person's behavior with synonyms for the word ethics which include principles, standards, values, morals, ideas, beliefs, codes etc. It gives an insight into the nature of ethics which may be defined as a term standing for honesty, integrity, respect, compassion, fairness, loyalty, love, dependability, courage and good citizenship. Suffice it to say that ethics has its roots in the good virtues of ideal/ standard behavior to be practiced/ exhibited by everybody all the time. Ajayi (2007) also posited that ethics is the study of the general nature of morals and of specific moral choices; moral philosophy and the rules or standards governing the conduct of the members of a profession or an organization. Ethics may further be explained to mean an inquiry into the nature and grounds of morality which is taken to mean moral judgments, standards and rules of conduct.

Ekundayo (1999), however submitted that ethics means the norms and morals that guide the practice of an occupation to ensure just and fair discharge of duties and avoidance of abuse of privilege. Ethics was also defined by Esezobor (2010) as "relating to the rules and ethos that guard conduct and relationship in a given calling. Such rules, which hinge on morality, could be written or implied from practice". Ajayi (2007) submitted that ethics are moral codes, principles

conventionalities inherently implied in the practice of any organization, community or profession. It also comprise of the standards expected of people at the individual, corporate or community levels. Personal ethics involves personal beliefs, attitudes, morals, standards of behavior while business ethics is a form of applied ethics that examines ethical principles and moral or ethical problem arising in the business environment.

Business ethics can be both a normative and a descriptive discipline for corporate practices or as an academic discipline or a career specialization. The field is primarily normative in academia and descriptive approaches are employed to it. Professional ethics however is the combination of ethics professionalism for standard norms and best practices anchors honesty, integrity, competence, accountability transparency, among others (Lawal, 2011). As an applied ethics, it's simply the practical application of ethical principles for the purpose of resolving ethical problems in the different fields of human endeavors. It connects with ethical issues that arise and be begging for solutions as they come e.g. medical ethics, Business ethics, environmental and educational ethics, ethics of banking etc. business ethics is the ethics governing the maintenance of business as a profession consisting in sets of restraints mutually agreed upon by practitioners and is an etiquette such as the Nigeria Standards Organization (NSO), Central Bank of Nigeria(CBN) and Chartered Institute of Bankers of Nigeria (CIBN).

Adesiyan (1983) had earlier suggested some of the factors that can influence the degree of the effectiveness of an ethical managerial decision: information, timeliness, capability and competency of the decision maker, organizational culture and the external environmental conditions available. According to Odozi (2007) and Lawal (2014), both defined ethical dilemma as "a situation in which all available courses of action appear to include morally-undesirable as well as morally desirable aspects in a given situation". It also involve situations when a difficulty of choice or balancing of choice must be made amongst available courses of action.

ii. Concepts of Profession and Professionalism in banking

Okafor (2007) defined profession as an occupation which demands a highly specialized knowledge and skill acquired at least in part of some form of examination either at a university or some other institutions and conveying to the persons who possess them considerable authority in relation to clients, such authority which is carefully maintained by guild-like associations of practitioners which lay down rules of entry, training and behavior in relation to the public and watch over their professional status. They further

clarified that profession needs to meet the following FIVE basic requirements:

- i. The acquisition of knowledge and skills which can be through some system of education and training and technical competence,
- ii. The establishment of a set of recognized ethical norms shared and applied by the members of the profession. Usually, these norms defined what proper or improper behavior is in professional service for clients,
- The institutionalization of self-control and discipline by and for the members where members the profession self-regulate themselves, by strictly complying with the profession's behavioral norms while serving their customers.
- The concept of service and social interest whereby the professional. Put in their service at the disposal of clients at an agreed remuneration. Real professional practitioners subordinates their own self-interest to those of their customers'; and
- v. A scenario where there is an effective community or environmental enforcement of their professional codes as well as the appropriate sanctions for noncompliance.

Ekundayo (1999) defined professionalism as the art of developing and using skills relevant for the practice of an occupation or vocation for mutual benefits of provider and receiver of services. It is an efficient practice of the theories and training in an occupation or vocation. Esezobor (2010)however defined professionalism as the standard of competence and technical skills expected in an occupation. Ali (2005) submitted that it can only be expected in an occupation and can only be achieved by conscious development of skill, attitude and knowledge of skill, attitude and knowledge through the process of training.

b) Theoretical Framework

Duska and Duska (2006) defined an ethical theory as "prescribing those principles that provide the overriding justifying reason for pursuing any course of action". It therefore follows that the nature of ethical theories arrived at will provide the ultimate principle to solve dilemmas either at home, workplace or in any social organization. The consideration of what is good for all the people affected by our decisions, priority for fairness, honesty and doing more good than harm to others is paramount. However, whether we do good or not, do not matter to some people but the consequences of our behavior matters to some people. Following theoretical foundations have been provided for the research for relevance as indicated below:

i. Agency Theory

The origin of Agency theory could be traced to Ross (1973) on economic theory of Agency while Mitnick (2006) concentrated on institutional theory

aspect of Agency. Jensen and Meckling (1976) equally remains one of the proponents of this agency. The theory was further developed by Grossmanet al. (1980) with the justification that on the basis of government goals of safety and protection. Agency as a theory is used to describe and explain the relationships especially between the principal (owners) and the agents (managers) of businesses. Agency relationships occur when the principal hire the agent to perform a service on the principal's behalf, as principals commonly delegate decision- making authority to the agents. Jensen and Meckling (1976), defined agency theory as a contractual agreement under which one or more persons (principal) engage another (agent) person to perform certain service(s) on their behalf including delegation of some decision making authority to the agent. Agency theory therefore provides the means to address relationship between two or more contractual and/ or implied parties which may erupt problems. Some of the problems include adverse selection, moral hazard and agency costs.

This is however different from the position of Williamson (1985). Mitnick (1973), states that agency problem are in three ways as principal's problem, agents problem and policing/monitoring mechanisms and incentives. Agency problem arise as a result of conflict of interest and information asymmetry between the principal and the agent. According to Umar (2015), the theory's major aim is that government agencies must be present to supervise and check the excesses of financial institutions for the financial system to be safe, protected and sound. He observe that the theory focusses on the problems of hidden actions and information (information asymmetry) from both parties but usually from the agents to the principal. Undoubtedly, agency theory is based on the incompleteness of contract and the separation of ownership (shareholders) and the control (management), which is the main characteristic of firms or institutions nowadays. Agency problem arise due to inefficiencies in resource allocation which is limited in supply and incomplete information (Mitnick, 1973).

Agency problem can be minimized through contract designing so as to be competitive in line with market dictates. This measure may go a long way at optimizing the resources of the firm especially to achieve cost/operational efficiency (Jensen & Meckling, 1976). The two are related to asymmetric information (such as adverse selection regarded as hidden information and moral hazard referred to as hidden action). Adverse selection occurs where asymmetric information exist before the transaction (contract) leading to inefficient allocation of resources. Moral hazard describes an agency problem which exists after a transaction is executed, from where inefficient resource allocation would have been made. Both terms have their linkages to the insurance industry as a

constituent member of good financial system where banking and non-banking institutions are present (Ross, 1973).

According to Jensen (2004), a well-designed pay packages can mitigate the agency problems between managers and shareholders and well-designed corporate policies and processes can mitigate agency problems between members of the board and shareholders. They both focus on different parties striving to achieve same corporate objectives of the firm. The assumption that all directors are greedy may not hold always but it is better to assume that a small minority of them are responsibly greedy in business practice. The relevance of this theory rests on the fact that adequate information must pervade within the system in order to avoid asymmetric information which is counterproductive to high ethical and professional standard.

ii. Utilitarian Theory

Another relevant theory to the study is the ethical philosophical foundation of utilitarianism of Jeremy Bentham and Mill which placed more emphasis on our feelings, especially the feelings of pleasure and pain, as the guide for ethics. It is called happiness which has the intrinsic value of pleasure and freedom from pain (Oke & Esikot, 1999). The theory states that whatever gives us the greatest pleasure and the least amount of pain is the standard for morally good behavior. "Good" from the moral view establishes a standard by means of which moral judgments can be pronounced. Mill and Oruka (2007) advocated higher pleasure (physical and intellectual) and rich in enjoyments, or the explanation of the rightness of human actions both in terms of quality and quantity as evaluation of consequences.

Utilitarianism which is an ethical empiricist theory known as the "goods perspective" says morality is thought to be the pursuit of a goal or an end. It holds that the supreme moral standard is both what persons aim at when they act, and the reference for evaluating their actions as "good" which is termed generally as "happiness". It is characterized as a quantitative and reductionist approach to ethics. Happiness according to Oke and Esikot (1999) "can be regarded as a normal standard upon which a moral law and an ethical theory can be built, a point of reference from which conduct can be judged to be good or bad, right or wrong, just or unjust.

Mill and Bentham who are the classical influential utilitarianism contributors stated utilitarianism is a theory in normative ethics holding that proper course of action is the one that maximizes utility, usually defined as maximizing total benefit and reducing suffering or the negatives. It is now generally taken to be a form of "consequentialism". The theory believes in the principle of utility that actions are right in proportion as

they tend to promote greatest happiness. Happiness here means "not the agent's own greatest happiness but the greatest amount of happiness altogether," while utility has to do with the usefulness or value of a thing, a product or service, a policy. Utility is defined as the standard for measuring the propriety of our conduct or approach and the capacity to meet the needs and aspirations of the people (customers). That is, do that action which will bring about the greatest good for the greatest number of people and that is why it is called "consequentialist" form of ethical theory. It differs significantly form other forms like egoism since it focuses on all concerned including self. According to Oruka (2007), ethical theories are verifiable or disproved by the process of objective reasoning which could be either deductive or inductive reasoning.

Consequently, an ethical banker must focus on the happiness of the customer through the application of a banking term known as "Know your Customer" (KYC). It is a term which holds its principles on the total satisfaction of the customer by building a robust banker customer relationship through good business advisory services, account and financial services/credit, other ancillary banking services which has the customer's satisfaction as the center point or pivot of the banking relationship. Thus in practice, the relevance of this theory has been built around the concept of "customer relationship management" with emphasis on total customer satisfaction.

IV. Research Methodology

This study specifically adopted the mixed research method by making use of questionnaire and subjecting same to inferential statistical analysis through Pw and Ktau's correlation coefficients. This study employed the five step approach of data validation, coding, data entry, error detection and data tabulation to have a more robust result. The study's population comprise of 21 deposit money banks as at December, 2016 and three regulatory institutions in Nigeria. Data collection was from primary source through the instrument of questionnaire. 187 questionnaires returned from the 200 questionnaires distributed representing 93% response rate. According to Asika (2002), questionnaire provides a platform on which social variables could be measured with impact on service users and providers such as bank.

Results and Discussion

The study was carried out in the southwestern part of Nigeria as the financial hub of Nigeria in terms of bank presence and branches (CBN 2012). The study examined the socio-economic factors that determines ethical and professional banking practice in Nigeria. The results as revealed through the correlation coefficients indicated and confirmed that socio-economic factors influence ethical and professional performance of banks. The result showed weak negative correlation coefficients of -0.3135 for the extent of working hours that can increase staff productivity and weak negative correlation of -0.1250 for the general conditions of service, recreational and sporting activities by bankers. Thus, this suggests that the higher the social economic factors, the lower its effect on the ethical and professional values in the banking system. The implication of this is that the socio-economic status of bankers needs to improve since these factors have statistical significance to higher productivity and profitability of banks. Summary of correlation coefficient and K tau correlation tables 4.1 and 4.2 are shown below:

Table 4.1: Summary of Correlation Coefficients

Variable	Obs	Mean	Std, dev.	Min	Max
VI	187	94	54.1264	1	187
Socioec	187	4.272727	1.055174	3	5
Lwh	187	1.989305	1.307502	1	5
Recsp	187	3.304813	1.409693	1	5
Cons	187	3.882353	1.386207	1	5
Bcha	187	4.128342	1.023697	1	5
Itech	187	3.748663	1.412668	1	5

*ktau: (obs = 187)

From table 4.1 above, it has been revealed that the degree of dispersion and variation relative to the mean and average distribution of the population shows a higher degree of variability indicating that the data is fit with standard deviation of 1.05 and mean of 4.27. The sampled banks socio-economic variables are spread across the country and not enough for their adequate employment for the discharge of functional banking responsibilities required of today's banking system.

Variable Socioec Bcha Lwh Recsp Cons Itech Socioec 1.0000 -0.3135 1.0000 Lwh 1.0000 Recsp 0.2510 -0.2812 -0.1250 0.1891 -0.1631 1.0000 Cons 0.0819 0.0332 -0.0459 -0.0386 1.0000 Bcha Itech 0.0138 -0.0102 0.0846 0.01150 0.0113 1.0000

Table 4.2: Pw Correlation Coefficients

*ktau: (Obs = 187) *Socioec = Socioeconomic, *Lwh = length of working hours, *Recsp = recreation & sporting facilities, * Cons = conditions of service, *Bcha = bank charges, * Itech = information technology.

The table 4.2 above depicts that there was weak negative correlation of socio-economic variables to the length of long working hours and poor conditions of service for an efficient banking delivery in Nigeria (-0.3135 & -0.2510). The socioeconomic factors present in the Nigerian system are grossly inadequate to capture the pace of both technological, socioeconomic, financial/banking development as at now. The issue of cybercrime, security threats and poor communication system pervading the entire financial landscape is worrisome and negatively affecting efficient banking services in Nigeria.

VI. CONCLUSION AND RECOMMENDATION

Based on the findings from this study, it was concluded that banks as a business unit have not improved their ethical and professional norms and values through flagrant disobedience to banking rules, laws and regulation. Thus, a lot of professional abuses are exhibited as regards operational procedures, poor corporate governance and poor asset quality, all revolving on banker customer relationship among others. Government through the Central bank of Nigeria and other regulatory agencies have not been adequate in terms of monitoring and examination of banks generally. It was further revealed that the enforcement mechanism of the regulatory institutions had not been up to standard especially in the area of e-banking. The conclusion by the study is that deposit money banks in Nigeria have not improved significantly on adherence to the ethical and professional codes of conducts of the profession, thus affecting their efficient performance.

Compliance to shared ethical and professional values that have not been adequate among the banks. Government needs to improve the operational environment of the financial system in terms of security, power/electricity provision, road networks and other socio-infrastructural facilities for the country to aid ease of doing business in Nigeria as presently being championed. The present training facilities of the banks should be expanded to the Universities Polytechnics to accommodate adequate training on ethical and moral standard that may influence bankers' behavior in the daily discharge of their duties. This will go a long way to attract foreign direct investment to the

country and essentially improve the general economy. Further research could be embarked on the ethical and professional compliance of rules, code of ethics specifically from the corporate governance/directors' end for the banks and other business sectors in Nigeria.

References Références Referencias

- 1. Adeduntan, A. (2018). Autobiographies teach me how to build lasting legacy. The Punch Newspapers Nigeria Limited. http://www.punchng.com.March, 10, 38-39.
- 2. Adelabu, I.T. (2008). "Ethics in accounting profession: panacea for enduring national economic stability". Annual national conference, Faculty of Information and Communication Technology, Osun state Polytechnic, Iree held on 6th-9th October, 5-9.
- Adesiyan, T. (1983). Questions and answers on principles and practice of management. Ibadan: (1st Ed.). Royal Publishers.
- 4. Adewunmi, W. (1998). Ethics in the financial services business. Lagos. Chartered Institute of Bankers of Nigeria Press Limited.
- 5. Adewunmi, W. (2002). Ethics as the core of professional practice in Nigeria. Lagos. Association of professional bodies in Nigeria.
- 6. Ajayi, O.A. (2007). Banking: Law and Ethics. Ibadan. Bash-Moses Printing and Publishing
- 7. Akhtar, M., Ali, K., & Sadaqat, S. (2010). Performance efficiency of commercial banks of Non-parametric Pakistan: technique envelopment analysis (DEA). Asian Journal of Business and Management Sciences, 12, 150-156.
- Ali, H. (2005). A survey of ethics in the Nigerian financial industry. Doctoral thesis of St. Clemens University, USA. Retrieved from http://www. stclemens.edu/gradyida.html on 15th December, 2016.
- 9. Asika, N. (2002). Research methodology in the behavioural sciences. Lagos. Longman Publishers, Nigeria.
- 10. Auta, E.M. (2010). E-banking in developing economy: Empirical evidence from Nigeria. Journal of Applied Quantitative Methods, 5(2), 212-222.
- 11. Bankers' Committee (2001). Code of Ethics and Professionalism in the banking and finance industry.

- Lagos. The Chartered Institute of Bankers of Nigeria (CIBN) Press Limited.
- 12. Banks and Other Financial Institutions Act no 25 (1991). Federal Government of Nigeria Press, Abuja, Nigeria.
- 13. Barbara, C., Claudia, G., Philip. M. (2006). Introduction to banking. England. Pearson Education Limited.
- 14. Central Bank of Nigeria (2005 & 2012). Briefs and Reports for banks. Federal Government Press, Abuja, Nigeria.
- 15. Chartered Institute of Bankers of Nigeria (2006). "Code of banking practice". Retrieved from http://www.ccibn.org.ng on January, 2012.
- 16. Duska, R.F., Duska, B.S. (2006). Accounting Ethics. Oxford, Blackwell Publishing.
- 17. Ebenezer, O.O., Omar, W.A.W., & Kamil, S. (2017). Bank specific and macroeconomic determinants of commercial banks' profitability: **Empirical** evidence from Nigeria. Journal of Finance and Banking studies, 6(1), 25-38.
- 18. Ekundayo, J.O. (1997). "The CIBN: Its future roles in banking industry". Journal of the Nigerian Banker, Lagos. The CIBN Press Limited. July-December, 31-32.
- 19. Ekundayo, J.O. (1999). "Ethics: The foundation of banking". Compulsory Continuing Professional Development (CCPD) study materials from Chartered Institute of Bankers of October,11th1-2.
- 20. Esezobor, E.A. (2010). Practice of banking. Lagos. The CIBN Press Limited.
- 21. Esezobor, E.A. (2010). "Ethics and Professionalism in banking in Nigeria". Journal of the Nigerian banker of the Chartered Institute of Bankers of Nigeria. Lagos. The CIBN Press Limited. January-March, 30-34.
- 22. Fisher, C. & Lovell, A.(2003). Business Ethics and Values. England. Pearson Education Limited.
- 23. Goldface-Irokalibe, (2010). Law of banking in Nigeria. Lagos. Malt House Press Limited.
- 24. Grossman, S., & Stiglitz, J. (1980). On the impossibility of informationally efficient markets, American Economic Review, 70(3), 393-408.
- 25. Ifionu, E.P., & Keremah, S.C. (2016). Bank reforms and deposit money banks performance: Evidence from Nigeria. European Journal of Business and Management. 8(7), 201-212.
- 26. Inwalombe, D. (2018). "Keeping vigil in Edo banks". Punch Newspapers Nigeria http://www.punchng.com retrieved on January 1.
- 27. Jensen, M.C., & Meckling, W.H. (1976). A theory of the firm: Managerial behavior, agency costs and ownership structure. Journal of Financial Economics, 3(4), 305-360.
- 28. Kolawole, S.E. (2004). "The role of the CIBN in promoting professionalism and ethical standard in

- the Nigerian banking industry". NDIC Quarterly reports 14(3).
- 29. Lawal, T.T. (2011). Fundamentals of banking ethics and professionalism (Theory and Practice). Ede, Lolson Faith Nigeria Enterprises and Publishers.
- 30. Lawal, T.T. (2014). Impact of Ethics and professionalism on commercial banking operations in Nigeria. A Masters of Technology degree thesis from Ladoke Akintola University of Technology, Ogbomoso, Nigeria.
- 31. Mitnick, B. M (2006). Origin of the theory of agency: An account by one of the theory as originators: Katz Graduate School of Business, University of Pittsburgh, Pittsburgh.
- 32. Mitnick, B. M. (1973). Fiduciary rationality and public policy: the theory of agency and some consequences. Paper presented at the 1973 Annual Meeting of the American Political Science Association; New Orleans, LA in Proceedings of the APSA.
- 33. Nwankwo, G.O. (1991). Bank management: principles and practice. Lagos. Malt House Press Limited.
- 34. Odozi, V. (2007). "Ethics and professionalism in the banking industry: The role of the honorary senior member". Journal of the Nigerian Banker, Lagos. The CIBN Press Limited. April- July, 22.
- 35. Okafor, M.C. (2007). Banking and finance professionalism in the 21st century and beyond. Journal of the Nigerian Banker. Lagos. The CIBN Press Limited, October-December, 7-13.
- 36. Oke, M., & Esikot, I.F. (1999). Elementary ethics. Ile - Ife, Nigeria. Uniprofs Academic Publications.
- 37. Okoduwa, R. (2007). Ensuring ethical conduct, integrity and due diligence in the work place. Central Bank of Nigeria bulletin, 1(2),22-30.
- 38. Omokhuale. A.A. "Ethics (2002).and professionalism in the financial services industry". CBN Publication, Abuja. July-September, 26(3).
- 39. Omoregbe, J.I. (1989). Ethics: A systematic and historical study. Lagos. Cepco communications systems Limited.
- 40. Omoregbe, J.I. (1990). Knowing Philosophy, "A general introduction". Lagos. Joja Educational Research and Publishers Limited.
- 41. Oruka, H.O. (2007). Ethics: A basic course for the Undergraduate studies. University of Nairobi Press, Nairobi-Kenva.
- 42. Umar, M.G. (2015). Financial regulations and the Nigeria's banking sector. Journal of Research in Business and Management, 3(11), 05-13.



Global Journal of Management and Business Research: C Finance

Volume 19 Issue 3 Version 1.0 Year 2019

Type: Double Blind Peer Reviewed International Research Journal

Publisher: Global Journals

Online ISSN: 2249-4588 & Print ISSN: 0975-5853

An Empirical Analysis of Capital Structure and Firm's Financial Performance in a Developing Country

By Alamgir Hossain, Abdullah Al Yousuf Khan & M. Saifullah Khalid

IUBAT International University of Business Agriculture and Technology

Abstract- This paper aims to empirically study the relationship between capital structure and firm's financial performance in a developing country like Bangladesh. The investigation has been conducted through using panel data procedure for a sample of Dhaka stock market enlisted all IT firms during the year of 2013-2017. This research works have been performed through the three performance measures including return on equity, return on asset, and earnings per share as dependent variables, where capital structure is considered as debt ratio (DR), equity ratio (ER), long-term debt ratio (LTDR), short-term debt ratio (STDR) and used as independent variables. However, descriptive statistics, correlation, pooled ordinary least square analysis, fixed effect and Random effect model has been analyzed to find the relationship between capital structure and financial performance.

Keywords: capital structure; firm performance; return on equity; return on asset; earning per share.

GJMBR-C Classification: JEL Code: F65



Strictly as per the compliance and regulations of:



© 2019. Alamgir Hossain, Abdullah Al Yousuf Khan & M. Saifullah Khalid. This is a research/review paper, distributed under the terms of the Creative Commons Attribution-Noncommercial 3.0 Unported License http://creativecommons.org/licenses/by-nc/3.0/), permitting all non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited.

An Empirical Analysis of Capital Structure and Firm's Financial Performance in a Developing Country

Alamgir Hossain a, Abdullah Al Yousuf Khan & M. Saifullah Khalid P

Abstract-This paper aims to empirically study the relationship between capital structure and firm's financial performance in a developing country like Bangladesh. The investigation has been conducted through using panel data procedure for a sample of Dhaka stock market enlisted all IT firms during the year of 2013-2017. This research works have been performed through the three performance measures including return on equity, return on asset, and earnings per share as dependent variables, where capital structure is considered as debt ratio (DR), equity ratio (ER), long-term debt ratio (LTDR), short-term debt ratio (STDR) and used as independent variables. However, descriptive statistics, correlation, pooled ordinary least square analysis, fixed effect and Random effect model has been analyzed to find the relationship between capital structure and financial performance.

Keywords: capital structure; firm performance; return on equity; return on asset; earning per share.

Introduction

apital structure typically consists of debt and equity for a firm, whether, for a big corporation their structure extended to other components such as preferred share and retained earnings (Van Horne and Wachowicz, 1995). For the newly starting company, they don't have retained earnings; therefore. retained earning only applicable for the existing firm. The Capital structure can significantly impact on the performance of a company and which determines the of operating cash distribution flows shareholders and debt holders. If company has higher debt rather than equity that the company doesn't make higher income because for the higher debt company need to pay higher interest which create lower profit, on the contrary for the equity company no need to pay interest but they provide dividend to the shareholder if the company can make a good profit they can pay high dividend. So, a company needs to fix a balance between debt and equity (Weston and Brigham, 1979). Firms internal finance is equity, on the other hand,

Author α: Lecturer, College of Business Administration, IUBAT-International University of Business Agriculture and Technology, Dhaka, Bangladesh. e-mail: alamgir.hossain@iubat.edu

Author σ: Coordinator and Assistant Professor, BBA Program, IUBAT-International University of Business Agriculture and Technology, Dhaka, Bangladesh. e-mail: aaykhan@iubat.edu

Author ρ: MBA, BRAC University, Dhaka, Bangladesh.

e-mail: khalid.saif002@gmail.com

external finance is debt and majority firm use the combination of debt and equity (Nassar, S., 2016).

Modigliani and Miller first talked about the capital structure of a firm they stated that the capital structure is the combination of equity and debt, which the company uses to form their capital structure. First, they find out the impact of capital structure how could that impact on firm value creation later they modified because first time they used some restricted assumption (1963).

Many studies we found that they tried to get the impact of capital structure how does impact on firm performance in Bangladesh perspective (Amin and Hossain, 2013, Alom K, 2013, Hasan et al., 2014, Amin, S. and Jamil, T., 2015), no one try to find the relation between capital structure and profitability in IT sector. This research investigates only Dhaka stock market enlisted IT firm's capital structure and their impact on profitability.

The paper is organized as follow; the next chapter we discuss relevant past research theoretically and their empirical evidence based on capital structure, then the following chapter discusses on Method and data collection, and the last chapter covered the discussion on empirical findings and conclusion.

LITERATURE REVIEW П.

Romanian manufacturing companies listed in Bucharest Stock Exchange were analyzed empirically to show the evident of capital structure influence on firm performance, and this study was conducted crosssectional regressions on capital structure indicators as long and short-term debt, optimal debt and equity ratio with firm's financial indicators as return on assets and return on equity. Result was indicated from the empirical analysis that due to missing data of short-term debt those regression results are insignificant statically but it was visible that the financial performance was higher when manufacturing companies avoid debt rather than equity (Vătavu, 2015). Non-financial registered firms form Karachi Stock Exchange were analyzed to explore the capital structure impact on financial performance, this research used firm performance variables as return on equity, return on asset and return on sales and the capital structure variables are equity ratio, long term

debt ratio and total debt ratio. After conducted the regression analysis this research showed in the fixed effect model that there is a mixed relationship between firm performance and capital structure are exist. This empirical study illustrates that firm performance as a return on asset has significant and positive impact from capital structure, when firm's performance as a return on equity it showed negative impact form capital structure variables equity and long-term debt but positive impact form capital structure variable debt to asset ratio. Another financial performance as return on sales indicate that debt to asset and equity ratio negatively impact on it but at the same time long term debt impact positively, through this empirical analysis it was evident that the capital structure has impact on firm's financial performance (Javed, Younas, and Imran, 2014). Research on different Chinese firms showed there is a negative impact on financial performance of firm from capital structure (Huang and Song, 2006). There is a negative impact form capital structure were found in firm's financial performance (King and Santor, 2008). Research on Oman firms empirically explore that the capital structure negatively impact on firm performance and which was highly significant (Rao, Yahyee and Syed, 2007). Bursa Malaysia Stock exchange listed 237 companies from different sectors in between year 1995 to 2011 were analyzed to investigate the relationship between firm performance and capital structure, this research uses four financial performances and five capital structure measures and also use a control variable, research finally presented a mixed relationship between firm performance and capital structure (Salim and Yadav, 2012). Dhaka Stock Exchange listed non-financial company for the period of 2008 to 2011 was empirically analyzed and estimated the impact of capital structure variables on firm performance and capital structure were recognized in this study by debt, current debt, debt to equity, proprietary of equity ratio and current assets proprietors funds Ratio, and this study showed debt, debt to equity and proprietary of equity have significant negative impact on firm performance as return on asset, return on sales (Rouf and Abdur, 2015). Research by using panel data analysis for fifteen year's data of seven listed cement companies in Bangladesh evident that the significant positive influence on cement firm's performance as return on asset and return on equity were existed through capital structure variable short-term debt to asset ratio (Amin and Jamil, 2015). Study on 40 Dhaka Stock Exchange listed company attempts to evident that capital structure has an effect on profitability and this study used POLS, fixed and random effects model to confirm the effect on profitability and it was also used two control variables to identify those influences on capital structure, and it was proved that firm's size and liquidity have statically negative influence on capital

structure (Anowar, 2016). Another empirical study was conducted to support the theory of Modigliani & Miller (MM) though Modigliani & Miller (MM) arguments are still vague, this study was used data from Chittagong Stock Exchange and Dhaka Stock Exchange's listed companies form four most dominants sectors for the robustness of the analysis but this study couldn't empirically support the arguments of MM theory because the empirical findings were showed strong positive correlation between capital structure and firms performance (Chowdhury and Chowdhury, 2010). Another empirical study found that there is existent of deficiency of empirical research about capital structure and the performance of banks in Bangladesh and this research attempts to fill this gap by using twenty-two banks of Bangladesh and finally empirical findings evident through the pooled ordinary least square analysis that capital structure inversely affects bank financial performance (Siddik, Kabiraj and Joghee, 2017). Study on relation between firm's performance as ROE and Tobin's Q with capital structure that capital structure negatively impacts on firm's financial performance, and this study was supported by Pecking Order Theory (Hasan, Ahsan and Rahaman, 2014). Empirical Analysis was conducted on 50 non-financial quoted companies from Nigeria and used Pooled Ordinary Least Squares (OLS) model, Fixed Effect Model (FEM) and Random Effect Model (REM) for empirical findings and this study also found mixed relationship between capital structure and profitability of those companies (Salawu, 2009). A research was conducted to examined the capital structure impact on the firm performance through the Egyptian capital market listed sixty-four firm for the period of 1997-2005 and after analyzing variables this research didn't get any significant impact on the firm performance from capital structure decision as well as the relationship also too weak, and this study used multiple regression analysis to obtain this result (Ebaid, 2009). A single measure financial performance as ROA-Return on asset was used to identify the influence from capital structure for Pakistani textile companies and data were used from the period of 2004 to 2009 on 141 firms, this study applied the log-linear regression model, the empirical findings evident that the relationship is exist but the capital structure variable TDTA has negative impact on the performance ROA (Memon et al., 2012). Nonfinancial 174 Swedish companies were analyzed to measure the influence of capital structure variable on the firm performance and this study evidenced that the relationship is visible and the significance level is also strong enough to measure the negative influence (Gansuwan and Onel, 2012). Study of five different variables upon capital structure of listed Romanian constructions sector firms in the Bucharest Stock Exchange was conducted to identify the importance. A

panel data estimation was developed through using 20 companies and period selected between 2009 to 2011. This study adopted traditional explanatory variable, and these selected variables are profitability, company size, tangibility of assets, liquidity and asset turnover. Method was used for this study were OLS-Ordinary least squire and FE-Fixed effect, simple and multiple linear regressions. For perceive the influence of traditional explanatory variable on the leverage of construction sector of Romania those methods were used. Finally, this study shows that construction sectors capital structure is negatively affected by profitability and liquidity ratios. Tangibility of the firms were negative for the dependent variable leverage as capital structure, solidification the findings of preceding empirical research's which claim that this indicator changes in reverse direction with the debt ratio of companies situated in developing countries. Alternatively, the firm size and its turnover of assets have a positive correlation with leverage. Another explanatory variable of this study was profitability and this explanatory variable has highest impact on the capital structure decisions than any other explanatory variable (Serghiescu and Vaidean, 2013). Economic growth may influence by the financial structure and this issue was addressed in a study, where three contending sight of capital structure review in the literature and those are bank, market and financial service-based view. Through applying panel and crosssection methods recent empirical studies observe their importance. This study followed the time-series data and method, along with the Dynamic Mixed Panel approach, fundamentally on developing countries. This research found significant cross-country heterogeneity in the changing aspects of economic growth and capital structure, and the study also conclude that the sample countries pooled data was invalid. Real per-capita output was significantly impacted by the capital structure of firms, which was in sharp difference to some of the findings. Panel estimations, in most cases, do not parallel to country specific estimations, and hence may extend incorrect implications for several countries of the panel. (Arestis and Luintel, 2004). Manufacturing companies from Nigerian Stock Exchange listed was analyzed to investigate the capital structure and firm performance relationship. Five years data were used to conduct the research and the periods were from 2005 to 2009. Multiple regression method was used in this research to analyze the impact, variables used in this research was Profit Margin (PM) and Return on Asset (ROA) as firm performance variable and dependent variable and other independent variables were Long term debts to Total assets (LTDTA), Short-term debts to Total assets (STDTA), and Total debt to Equity (TDE) and these were capital structure indictors. This research found Long term debts to Total assets and Short-term debts to total assets has negative influence on the firm performance as Return on Asset and Profit Margin but the impact was not significant. Total debt to Equity and returns on asset were positively related but negatively with profit margin. Short term debt to total asset and return on assets were significantly related while long term debt to total asset and profit margin were significantly related. They concluded that that capital structure is not a main determinant of firm performance (lorpev and kwanum, 2012).

III. RESEARCH METHODOLOGY

Data and Variables: This study was analyzed data from all IT firms listed in Dhaka Stock Exchange and the period of five years (2013 to 2017), and data were collected from the official website of Dhaka stock exchange and the annual financial statement of those IT firms.

Three financial performance indicator and four capital structure variables were selected to identify the capital structure impact on the financial performance. Return on asset (ROA), return on equity (ROE), earning per share (EPS) were chosen as the financial performance indicators, previous literature also studied select those indicators (Siddik, Joghee 2017., Hasan et al., 2014). Others function as capital structure variable were debt ratio (DR), equity ratio (ER), long-term debt ratio (LTDR), short-term debt ratio (STDR). Here, previous literature (Abor, J., 2005, Nassar, S., 2016, Rouf, D. and Abdur, M., 2015, Vătavu, S., 2015) was analyzed to determine the capital structure variable of this study, total debt out of total asset are considered as debt ratio, short term debt and long-term debt individually out of total asset are respectively considered as short-term debt ratio and long-debt ratio and equity ratio is calculated through total equity to total asset.

b) Empirical Model: A primary empirical model (i) was developed to explore the capital structure impact on financial performance of IT sectors of Bangladesh, in this primary model in equation (i), the dependent variable was financial performance of IT firms (ITFP) and the independent variable was capital structure (CS) and there is an error term (€). Where, a was the intercept and which was unknown for all IT firms and t is time (t = 2013-2017).

$$\mathsf{ITFP}_{ct} = \alpha + \beta_1 \, \mathsf{CS}_{ct} + \mathfrak{E}_{ct} \dots \dots (i)$$

Equation (ii), (iii), (iv) are extension form of primary empirical model (i), since we have considered three different financial performance (ROA), (ROE), (EPS), those were placed as dependent variable for firm c in time t at equation (ii), (iii), (iv) respectively.

$$\mathsf{ROA}_{\mathsf{c},\mathsf{t}} = \alpha + \beta_1 \mathsf{CS^{\mathsf{DR}}_{\mathsf{c},\mathsf{t}}} + \beta_2 \mathsf{CS^{\mathsf{ER}}_{\mathsf{c},\mathsf{t}}} + \beta_3 \mathsf{CS^{\mathsf{LTDR}}_{\mathsf{c},\mathsf{t}}} + \beta_4 \mathsf{CS^{\mathsf{STDR}}_{\mathsf{c},\mathsf{t}}} + \mathfrak{E}_{\mathsf{c},\mathsf{t}} \dots (\mathsf{ii})$$

$$\mathsf{ROE}_{c,t} = \alpha + \beta_1 \, \mathsf{CS^{DR}}_{c,t} + \beta_2 \, \mathsf{CS^{ER}}_{c,t} + \beta_3 \, \mathsf{CS^{LTDR}}_{c,t} + \beta_4 \, \mathsf{CS^{STDR}}_{c,t} + \\ \boldsymbol{\mathfrak{E}}_{c,t} \dots \dots \text{ (iii)}$$

$$\mathsf{EPS}_{\mathsf{c},\mathsf{t}} = \alpha + \beta_1 \, \mathsf{CS}^{\mathsf{DR}}_{\phantom{\mathsf{C}}\mathsf{c},\mathsf{t}} + \beta_2 \, \mathsf{CS}^{\mathsf{ER}}_{\phantom{\mathsf{C}}\mathsf{c},\mathsf{t}} + \beta_3 \, \mathsf{CS}^{\mathsf{LTDR}}_{\phantom{\mathsf{C}}\mathsf{c},\mathsf{t}} + \beta_4 \, \mathsf{CS}^{\mathsf{STDR}}_{\phantom{\mathsf{C}}\mathsf{c},\mathsf{t}} + \mathfrak{E}_{\mathsf{c},\mathsf{t}} \dots \dots \text{ (iv)}$$

Where β_1 , β_2 , β_3 and β_4 respectively represent the regression coefficient of capital structure independent variables of debt ratio (DR), equity ratio (ER), long-term debt ratio (LTDR), short-term debt ratio (STDR) for firm c in time t, and there is error term €ct. Ordinary Least squire- OLS, FE- Fixed effect model and RE- Random effect model are used to test the static model, those models are exploring specifically the impact of variables toward the performance and those models are also assist to explain the different variables discretely.

c) Descriptive statistics: Below table1 present the descriptive statistics of the variables, where return on asset in average 0.07 and in case of return on equity is 0.094, earning per share is in average 1.59, Average equity and debt indicate Bangladeshi IT firm's huge investment on asset are from shareholder's equity, and debt were use very less, and it's also appeared IT firms concentrate less on long-term debt in compare to short term debt. Among all variables std. error below 0.02 except earnings per share. And in case of std. deviation earning per share are also highly deviated. Kurtosis of return on asset, equity, debt and short-term debt shows distribution has lighter tails and flatter peak.

Table 1: Descriptive statistics of variables

	ROA	ROE	EPS	ER	DR	LTDR	STDR
Mean	0.0766	0.0941	1.5950	0.8074	0.1926	0.0377	0.1549
Std. Error	0.0047	0.0052	0.1439	0.0220	0.0220	0.0059	0.0210
Std. Deviation	0.026	0.028	0.788	0.120	0.120	0.032	0.115
Kurtosis	-1.047	0.011	0.475	-1.031	-1.031	0.097	-0.858
Skewness	0.172	0.925	1.306	-0.249	0.249	1.005	0.546
Minimum	0.0416	0.0615	0.69	0.5928	0.0181	0.0056	0.0049
Maximum	0.12732	0.1644	3.26	0.9819	0.4072	0.1242	0.3758
Count	30	30	30	30	30	30	30

Correlations: In table 2 correlation matrix between variable are presented, it's appeared that return on asset and return on equity are highly correlated, good correlation between return on equity and earnings per share are visible, debt ratio and equity ratio are highly and negatively correlated, debt ratio and short-term debt are strongly correlated, strong negative correlation between short term debt and equity also visible. Average relation between return on asset and earnings per share, equity, debt and short-term debt (negative) are exist, weak and negative relation between long-term debt and return on asset also appeared, return on equity and equity are negative and with debt ratio are positive but weak relation exist, earning per share are negative and positively related with all variable but those relation are very weak.

Table 2: Correlation matrix of variables

	ROA	ROE	EPS	ER	DR	LTDR	STDR
ROA	1						
ROE	0.9126	1					
EPS	0.6049	0.7801	1				
ER	0.5634	0.1878	-0.154	1			
DR	-0.5634	-0.1878	0.154	-1	1		
LTDR	-0.1208	0.0509	-0.138	-0.298	0.2982	1	
STDR	-0.5560	-0.2111	0.200	-0.963	0.9632	0.0306	1

EMPIRICAL FINDINGS IV.

Table 3 presenting the result of multiple regression between capital structure and financial performance variables, in this table 3 a comparative result analysis model was developed to illustrate the probable impact of capital structure variable toward the financial performance, this model consists through three different test results Ordinary Least Squire-OLS, Fixed effect, Random Effect, this model will be used to identify the impact in three phase, first phase capital structure impact on dependent variable as return on asset (ROA), second phase dependent variable as return on equity (ROE), and third phase dependent variable as earning per share EPS).

Table 3: Comparative Result Analysis

			OLS			FE			RE		
	Variable	β	t	Р	β	t	Р	β	Z	Р	
<u>a</u>	Intercept	0.06	9.31	0.109	.071	8.92	0.034	.068	5.83	0.086	
ab	ER	0.121	3.6086	0.001**	.028	0.68	0.5	.057	1.52	0.128	
/ar	DR	-0.12	-3.608	0.001**	02	-0.68	0.504	-0.05	-1.5	0.12	
ROA dent \	LTDR	-0.09	-0.644	0.52	.32	2.62	0.015	0.27	2.2	0.027	
윤	STDR	-0.12	-3.53	0.0014**	06	-1.45	0.161	-0.07	-2.05	0.041	
ROA Dependent Variable	R-		0.3414			0.0554			0.1132		
	Squared										
_	F Test		4.49			3.59			Chi2(4) =	10.10	
	Adj R-sq		0.2655				(4) = 4.32				
					Hausm	an Prob	>Chi2= 0).2291			
			OLS			FE			DE		
	Variable	β	t	Р	0	t	Р	β	RE z	Р	
		0.088	8.7774	0.0280*	β	8.01	0.002	0.096	5.61	0.003	
Ф	Intercept ER	0.088	1.0120	0.0280**	-0.08	-1.62	0.002	-0.047	-0.98	0.003	
abl	DR	-0.04	-1.0120	0.3202	0.087	1.62	0.119	0.047	0.98	0.32	
aria	LTDR	0.04	0.2698	0.3202	0.067	3.91	0.001	0.48	3.39	0.001	
	STDR	0.04	0.2096	0.7693	0.57	3.91	0.001	0.46	3.39	0.001	
ROE Dependent Variable		-0.052	1.1429	0.2627	0.036	0.64	0.528	0.009	0.20	0.84	
ebe	R-		0.0728			0.4694		0.4672			
	Squared										
	F Test		0.68			6.19	(A) 0.00	Wald Chi2(4) = 14.76			
	Adj R-sq		-0.0342		Hausman Chi2 (4) = 6.80						
					Hausman Prob>Chi2= 0.0785						
			OLS			FE		RE			
	Variable	β	t	Р	β	t	Р	β	Z	Р	
	Intercept	1.728	5.209	0.005**	1.68	9.87	0.007	1.68	3.73	0.007	
lble	ER	-1.005	-0.822	0.41	-1.21	-1.63	0.117	-1.20	-1.68	0.094	
aria	DR	1.005	0.822	0.417	1.217	1.6	0.11	1.2	1.6	0.09	
S	LTDR	-3.346	-0.735	0.468	7.51	3.56	0.002	7.12	3.39	0.001	
EPS dent	STDR	1.367	1.078	0.290	0.55	0.7	0.49	0.60	0.79	0.428	
EPS Dependent Variable	R- Squared	0.0662	1		0.4064		1	0.4062			
ă	F Test	0.61			4.79			Wald Ch	i2(4) = 1	3.28	
	Adj R-sq	-0.0415				an Chi2	(4) = 2.47				
	120,1109	2.20					` ,				
	Hausman Prob>Chi2= 0.480										

Note: Significance level 0.05*, 0.01** respectively.

In first phase of the model this study tried to identify the capital structure behavior towards return on asset (ROA), OLS test indicate equity ratio have impact on the return on asset significantly and positively and debt ratio negatively behave on the asset with high significance, In the meantime long term debt were statically insignificance towards the assets but shortterm debt was statically significant towards the assets and also have negative impact. Between fixed effect and random effect model Hausman test shows random effect were most appropriate to explain the impact where random effect imply only long term and short term were significantly influence the assets but equity and debt ratio were insignificant. In random effect it was visible that long term debt positively influences asset but short-term debt though negatively but slightly influences

the asset compare to long term debt. Though Hausman test didn't trigger the fixed effect model but comparative issue of the study it can be said that any variable of this model wasn't statically significant except the long-term debt. OLS model was the most perfect by comparing fixed and random effect model. Little similar coefficient from the equity, debt and short-term debt its visible that equity is more suitable for this sector and less long-term debt coefficient then short-term debt indicate BD IT sector have tend to go for more short-term debt rather than long term debt.

In second phase of the comparative result analysis dependent variable was return on equity (ROE), where this study found that impact of several capital structure variable was exist in all model but the level of significance was very lower or high insignificancy were existing. OLS model shows all variables was totally insignificant towards the return on equity, apparently it appears there is no impact but another two-model fixed and random effect shows a common variable long-term debt were highly significant for equity. Hausman test indicate random effect model is perfect for the explanation so if we consider the random effect model then all variable of this model was highly insignificant except long-term debt and it has significant positive impact on the equity. Biggest coefficient of this variable implies that profitability as return on equity was increased when company goes long term debt.

Subsequently analyzing the third phase, this study found capital structure variable have insignificant impact toward the earning per share (EPS) in case of OLS test but fixed effect and random effect shows there is several influences. Hausman test shows the random effect model was more appropriate for explain the effect of capital structure variable rather than fixed effect model. Random effect shows several variables was significant but long-term debt was highly significant then equity and debt ratio, more specifically equity and debt were near trend significance and contain biggest coefficient both of them and equity had negative influence on the earning per share but at the same time debt had positive influence and if we concentrate on the long-term debt than the model shows very small coefficient with high value significance towards the earning per share.

Overall evaluation of this study found that capital structure has significant and positive or negative impact on return on asset (ROA), return on equity (ROE), earning per share (EPS) as financial performance. Capital structure behaves in different ways in different dependent variables. More specifically IT sector of Bangladesh is growing and newly developed, by nature of this sector and in the perspective of the country most of the IT company have tend to acquire investment from shareholders and owners mutually and very less from debt and most of the debt are from short term basis and

this fact also visible in whole comparative result analysis multiple regression model.

RESEARCH DISCUSSION

This empirical research is supported by packing order theory, Modigliani and Miller Theory and trade off theory. Modigliani and Miller Theorem (1958) proposed that if other factors like tax, interest etc. persist unchanged then capital structure does not have any impact over firm performance. But in current world and in economy this theory is not possible to hold these entire factors are unchanged like tax and interest. So, this theory is not applicable for today's world. Modigliani and Miller (1963) also explained that if other things get involved, then debt over assets ratio would be one that means that all of the financing is due to debt and equity is not used at all. Now, from the empirical result of this study it can be evidently stated that the Modigliani and Miller Theorem (1963) is not applicable on the IT sector of Bangladesh because though other things get involved but primary source or higher percentage of financing of this sector are from equity than the debt.

Miller in 1977 presented Trade-off Theory that stated firms can only get highest revenues if their leverage is at optimum level. It is very problematic to choose optimal leverage level so there are always likelihoods of faults while making the best choice between debt financing and equity financing. Debt over assets has constructive influence over return on assets (Frank, M.Z. and Goyal, V.K., 2008). But Huang and Song (2006) conducted study on Chinese firms and found adverse relation between capital structure decision and firm performance. Ghosh (2007) came to know that leverage is inversely associated with profitability. (Raoet al., 2007) studied Oman companies and stated that capital structure is negatively and significantly connected to company's financial performance. From the study result of IT sector of Bangladesh, empirically it can be stated that the capital structure as debt are negatively related with financial performance as return on asset.

Pecking Order Theory was proposed by Myers and Majluf in 1984, this theory stated that firm first should use the internal financing rather than debt financing such as retained earnings and reserves, than firm should consider the debt financing after this last way of financing can be issuing preferred stock and common stock(Frank, M.Z. and Goyal, V.K., 2008). Pecking Order Theory is the best match for the IT sector of Bangladesh and it also visible from the thorough analysis of the capital formation of this sector.

Conclusion

This paper investigated the impact of capital structure on firm's financial performance, and has been tried to get the relationship between capital structure and performance of IT firms in the Bangladesh perspective. In order to conduct the experiment Dhaka Stock Exchange enlisted IT Company's selected. In a nutshell, from the research it can say that capital structure has positively significant impact on return on asset (ROA). Moreover, debt and equity ratio uniformly impact on the ROA. So, this paper suggests maximizing shareholder wealth between equity and debt needs to make a perfect combination. On the contrary, other two dependent variable ROE and EPS as financial performance didn't have significant impact from capital structure.

Contribution/Originality: This study is focused on the Information Technology Industry in Bangladesh. Recently the IT industry is very flourishing in the Bangladesh market, but some IT company went for bankruptcy after a few years of their starting. Therefore, this research is conducted to investigate how capital structure impact on Firm's financial performance, moreover, it will contribute to developing and emerging economies finance literature.

References Références Referencias

- 1. *Abor, J., 2005.* The effect of capital structure on profitability: an empirical analysis of listed firms in Ghana. The journal of risk finance, 6(5), pp.438-445.
- 2. Alom K, 2013. "Capital structure choice of Bangladeshi firms: An empirical investigation". Asian Journal of Finance & Accounting, 5(1), 320–333.
- 3. Amin S. and Hossain M., 2013. "Capital Structure and Firm Performance: Evidence from Commercial Banks in Bangladesh". Journal of Finance and Banking, Vol. 11, No. 1 & 2.
- 4. Amin, S. and Jamil, T., 2015. "Capital Structure and Firm Performance: Evidence from Cement Sector of Dhaka Stock Exchange Limited".
- 5. Anowar, Z., 2016. Capital Structure and Profitability of Bangladeshi Firms: A Causal Investigation.
- 6. Chowdhury, A. and Chowdhury, S.P., 2010. Impact of capital structure on firm's value: Evidence from Bangladesh. Business & Economic Horizons, 3(3).
- Hasan M., Ahsan A., Rahaman M. and Alam M., 2014. "Influence of Capital Structure on Firm Performance: Evidence from Bangladesh, International Journal of Business and Management; Vol. 9, No. 5; 2014 ISSN 1833-3850 E-ISSN 1833-8119 Published by Canadian Center of Science and Education.
- 8. Hossain I., 2016. "Effects of Capital Structure and Managerial Ownership on Profitability: Experience from Bangladesh", International Journal of Business and Management; Vol. 11, No. 9; 2016.
- 9. Javed, T., Younas, W. and Imran, M., 2014. Impact of capital structure on firm performance: Evidence

- from Pakistani firms. International Journal of Academic Research in Economics and Management Sciences, 3(5), p.28.
- 10. Koech, S.K., 2013. The effect of capital structure on profitability of financial firms listed at Nairobi stock exchange (Doctoral dissertation).
- 11. Koralun-Bereźnicka, J., 2014. Capital structure as a determinant of working capital management: empirical evidence across size groups of firms in the EU countries. Economy & Business Journal, 8(1), pp.36-54.
- 12. Nassar, S., 2016. The impact of capital structure on Financial Performance of the firms: Evidence from Borsa Istanbul. Journal of Business and Financial Affairs, 5(173), pp.2167-0234.
- Nouri, B.A., Bagheri, F. and Fathi, A., 2016. Comparison of Working Capital Management, Capital Structure and Real Investment Policies among Active and Bankrupt Firms in Tehran Stock Exchange. International Business and Management, 13(1), pp.8-15.
- 14. Rouf, D. and Abdur, M., 2015. Capital structure and firm performance of listed non-financial companies in Bangladesh. Browser Download This Paper.
- 15. Salim, M. and Yadav, R., 2012. Capital structure and firm performance: Evidence from Malaysian listed companies. Procedia-Social and Behavioral Sciences, 65, pp.156-166.
- 16. Siddik, M.N.A., Kabiraj, S. and Joghee, S., 2017. Impacts of capital structure on performance of banks in a developing economy: Evidence from Bangladesh. International journal of financial studies, 5(2), p.13.
- Statistics Solutions. 2018. Pearson's Correlation Coefficient - Statistics Solutions. [ONLINE] Available at: http://www.statisticssolutions.com/pearsonscorrelation-coefficient/.
- 18. Van Horne, J.C. and Wachowicz, J.M., 2000. Fundamentals of financial management. FINANCE INDIA, 14(2), pp.621-622.
- Vătavu, S., 2015. The impact of capital structure on financial performance in Romanian listed companies. Procedia Economics and Finance, 32, pp.1314-1322.
- 20. Weston, J. F., & Brigham, E. F. 1979. Managerial finance. Holt, Rinehart and Winston.
- 21. Huang, S. and Song, F. 2006. The determinants of capital structure: evidence from China. China Economic Review, Vol. 17 No. 1, (14-36.).
- 22. King_M. and Santor_E. 2008. Family Values: Ownership Structure, Performance and Capital Structure of Canadian Firms,. Journal of Banking and Finance, 32:, 2423-2432.
- 23. Rao, N,V., A-Yahyee, K and Syed. L.2007. Capital Structure and Financial Performance: Evidence from Oman, Indian Journal of Economics and Business,: 1-23.

- 24. Salawu, R.O., 2009. The effect of capital structure on profitability: An empirical analysis of listed firms in Nigeria. The International Journal of Business and Finance Research, 3(2), pp.121-129.
- 25. Modigliani, F. and Miller, M.H., 1958. The cost of capital, corporation finance and the theory of investment. The American economic review, 48(3), pp.261-297.
- 26. El-Sayed Ebaid, I., 2009. The impact of capitalstructure choice on firm performance: empirical evidence from Egypt. The Journal of Risk Finance, 10(5), pp.477-487.
- 27. Memon, F., Bhutto, N.A. and Abbas, G., 2012. Capital structure and firm performance: A case of textile sector of Pakistan. Asian Journal of Business and Management Sciences, 1(9), pp.9-15.
- 28. Önel, Y.C. and Gansuwan, P., 2012. The Influence of Structure Firm Capital on Performance: A quantitative study of Swedish listed firms.
- 29. Serghiescu, L. and Vaidean, V.L., 2014. Determinant factors of the capital structure of a firm-an empirical analysis. Procedia Economics and Finance, 15, pp.1447-1457.
- 30. Arestis, P., Luintel, A. and Luintel, K., 2004. Does financial structure matter?.
- 31. lorpev, Kwanum, (2012) Capital Structure and Firm Performance: Evidence from Manufacturing Companies in Nigeria. International Journal of Business and Management Tomorrow.
- 32. Ghosh, S., 2007. Leverage, managerial monitoring and firm valuation: A simultaneous equation approach. Research in Economics, 61(2), pp.84-98.
- 33. Frank, M.Z. and Goyal, V.K., 2008. Trade-off and pecking order theories of debt. In Handbook of empirical corporate finance (pp. 135-202). Elsevier.



Global Journal of Management and Business Research: C Finance

Volume 19 Issue 3 Version 1.0 Year 2019

Type: Double Blind Peer Reviewed International Research Journal

Publisher: Global Journals

Online ISSN: 2249-4588 & Print ISSN: 0975-5853

Energy Prices and the Financial Performance of Different Industries in Pakistan

By Qamar Rasheed

The University of Lahore

Abstract- The study conducted to analyze the influence of energy prices on the financial performance of large-scale manufacturing industries listed in Pakistan Stock Exchange over the period of 2007 to 2016. The financial indicators namely, return on equity, return on asset and profit margin ratio are used as dependent variables while exchange rate is used as control variable. This research used five different industrial sectors of Pakistan namely textile sector, cement sector, sugar sector, automobile assembling sector, and pharmaceutical sector. The population consisted of 170 companies however only 67 companies included in the sample of the study based on availability and accessibility of the data. The panel regression method employed for each sector of the study separately. The fixed effect estimator and random effect estimator applied to each sector of the study along with key financial indicators separately.

Keywords: panel data, fixed effect, random effect, energy prices, ratio analysis, PSX manufacturing industries.

GJMBR-C Classification: JEL Code: E44



Strictly as per the compliance and regulations of:



© 2019. Qamar Rasheed. This is a research/review paper, distributed under the terms of the Creative Commons Attribution-Noncommercial 3.0 Unported License http://creativecommons.org/licenses/by-nc/3.0/), permitting all non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited.

Energy Prices and the Financial Performance of Different Industries in Pakistan

Qamar Rasheed

Abstract- The study conducted to analyze the influence of energy prices on the financial performance of large-scale manufacturing industries listed in Pakistan Stock Exchange over the period of 2007 to 2016. The financial indicators namely, return on equity, return on asset and profit margin ratio are used as dependent variables while exchange rate is used as control variable. This research used five different industrial sectors of Pakistan namely textile sector, cement sector, sugar sector, automobile assembling sector, and pharmaceutical sector. The population consisted of 170 companies however only 67 companies included in the sample of the study based on availability and accessibility of the data. The panel regression method employed for each sector of the study separately. The fixed effect estimator and random effect estimator applied to each sector of the study along with key financial indicators separately. The Hausman test performed to ratify the appropriate method of regression analysis between the fixed effect model and random effect model. In the decisive remarks, energy prices have significant and positive association with the financial performance of large-scale industries of Pakistan.

Keywords: panel data, fixed effect, random effect, energy prices, ratio analysis, PSX manufacturing industries.

Introduction

he energy prices play its role in the economy level, stock exchange level and corporate level. Sometimes energy prices affect each level with same degree of variation and sometimes differently. The stakeholders should know the impact of the increase and decrease in the energy price to reduce risk against their investment. In each free market buyer wants to pay little price and seller wants to disclose high prices to gain more and more.

Yan (2012) explored that energy and its prices take interest and concentration of each group worldwide. Oil price volatility occurs due to the limited supply of oil by international organizations, instability of oil production in OPEC, economic changes in OPEC countries, change in demand worldwide, variation in oil stock in all countries, political instability, and fluctuation in dollar exchange rate. Bayar and Kilic (2014) revealed that production decreases due to the increase in oil and gas prices because of the cost of manufacturing increases along with the rise in the price of input.

Whether the price of oil is very high or very low depends on the point of reference (Frias, 2000). In the free market, buyers want to pay as little price as possible and sellers want to charge big prices. The World Bank analysis described an increase from a price of US \$26 per barrels in January 1985, US \$31 per barrel in 2004, US \$53 per barrel in January 2007 to US \$102 per barrel in January 2014, so this kind of fluctuation is notable over the long-term perspectives. Having fluctuated about US \$20 per barrel for much of the 1990s, oil prices have increased rapidly since 1999, peaking in July, 2008, and a very big drop in oil prices found by the end of December, 2008 (Brien and Weymes, 2010).

Latest studies help the belief and ensures that price uncertainty has influence over the macroeconomic variables of advanced economies of the world. The Gross Domestic Product (GDP) is directly linking with oil volatility, stock return (Sadorsky, Hondroyiannis and Papapetrou, 2001) and the interest rate (Hondroyiannis and Papapetrou, 2001; Ferderer, 1996). Sometimes evidence shows that low oil price does not boost economic activity and depress the economy. The asymmetry is one explanation for the impact of price uncertainty, over and above the effect of price level (Mork, 1989; Loungani, 1986). The dynamics of oil prices are very crucial for oil exporting countries and oil producing companies. The Organization of the Petroleum Exporting Countries (OPEC) plays a vital role to set principal motives to exploit and ensure the stability of oil prices in the global market. The OPEC's aim to diversity the detrimental effect of unnecessary fluctuations in the oil prices.

WEO (World Economic Outlook) International Energy Agency's (IEA's) indicated in World Economic and Financial Survey (April 2016) that there are three key factors which are playing important role to decline in oil prices. The increase in oil supply, weaker global demand and improved energy efficiency. These three factor increased financial and fiscal stress in oil exporting countries. The increase in oil supply cause 50% decline in oil price in 2015 and 2016. The benefit of decline in oil price transfer to advanced economies, which are less dependent on oil exports and their GDP improves gradually along with reduction in oil prices. The global GDP decline due to weaker global demand. The improvement in energy efficiency is the third factor to decline oil prices and it has small positive impact on

Author: M. Phil. Finance, The University of Lahore, School of Accountancy and Finance, Lahore, Pakistan.

e-mail: qamarali1989@yahoo.com

the Global GDP and more benefits for advanced economies¹.

Responding to persistent low oil prices The Organization for the Petroleum Exporting Countries (OPEC) and Russia met together in January 2017 and decided to wide ranging support for production adjustment and oil prices. They decided to cut production and push up the low crude oil prices. Through this commitment, they tried to make strong economic growth and financial markets. Together two main players have helped to tighten markets².

Gas will grow faster than oil and coal over the next five years, helped by low prices, ample supply, and its role in reducing air pollution and other emissions. Industry emerges as the main engine of demand growth, accounting for half of the forecast growth in global gas demand. A growing use of gas in the chemical sector, and strong demand for fertilizers in countries like India and Indonesia, and the replacement of coal by gas in a host of smaller industrial applications in China mean that industrial gas demand grows by almost 3% per year. Many countries are reforming their gas markets to increase the use of gas and to attract new investments. Gas prices in Australia's major eastern market have traditionally been very low but have now risen sharply, in part because new export projects have created a pricing link with international markets. Higher end-user prices have led to concerns about the impact on industrial competiveness. In response, the Australian government has introduced a domestic gas security mechanism that gives it the power to restrict exports if there is a risk of shortfalls on the domestic market ³

Price competitiveness and market reforms will be critical to sustaining natural gas demand growth in emerging markets. Emerging markets are much more sensitive to price levels than traditional buyers; competitiveness of natural gas, either sourced from domestic production or imported, is therefore a crucial factor in sustaining such demand growth. Emerging Asian markets, where half of the global consumption increase is expected in the medium term, still mainly use oil-indexed mechanisms to define natural gas prices. Importing countries should pursue adequate market reforms to further open their own domestic gas markets if they intend to benefit from the development of more competitive wholesale gas markets, including marketbased natural gas pricing mechanism⁴.

LITERATURE REVIEW II.

Many researchers and economists have tried to figure out the relationship between oil prices, gas prices and the financial performance of firms. Oil and gas prices have huge impact on the performance of firms in different perspective such as business performance, corporate performance and stock return. A number of studies have carried out at the global level and domestic level on the financial performance along with energy prices. Many of the studies have revealed positive relationship (like, Falzon and Castillo, 2013; Rahmanto et al., 2016; Dadashi et al., 2015; Caporale et al., 2015; Hamma et al., 2014; Baars and Rukavishnikova, 2014; Wattanatorn and Kanchanapoom, 2012; Aliyan, 2013; Liu and Ma, 2017; Gencer and Demiralay, 2013; Jafarian and Safari, 2015; Waheed et al., 2017). Beside that some studies have confirmed negative relationship (such as, Haq, 2017; Janor et al., 2013; Rodríguez, 2007; Arshad and Bashir, 2015). While, some researchers have stated mix relationship (like, Aimer, 2016; Daddikar and Rajgopal, 2016; Zhang and Chen, 2014; Lis et al., 2012; Elder and Serletis, 2009; Gencer and Demiralay, 2014). Whereas, firms level studies have explored that fluctuation in oil price has insignificant impact on the manufacturing industries and top five oil companies of the world (Mahboub and Ahmed, 2016; Hazarika, 2015).

Takina into consideration a firm relationship between energy prices and performance of firms, Haq (2017) revealed by using quantitative techniques over the four years of high and low oil prices that fluctuation in oil prices have a significant impact on the performance of corporate firms in Oman; he found that average revenue negatively correlated with average oil prices. In addition, oil prices affect average profit by direct proportion and EPS decrease with the reduction in oil prices. Basha (2014) investigated the impact of the increase in the crude oil prices on the financial performance of Jordanian pharmaceutical. The study confirmed that statistically significant relationship stands between oil prices on the financial performance of a pharmaceutical company. Shaari et al. (2013) explored the effects of oil prices on agriculture, manufacturing, transportation and construction sectors and reported that oil prices can affect agriculture, manufacturing, transportation and constructions sectors in long run. Bolaji and Bolaji (2010) probed the effect of the increase in oil prices on manufacturing companies in Nigeria and revealed that raise in the price of oil effect cost, diminish the market demand and decrease profit. Lele (2016) investigated the impact of oil prices on revenue growth, profitability and return on equity of 13 Industrial sector of Saudi Arabian Stock Exchange. The research confirmed that oil price has rigorous and significant impact on overall revenue growth, overall profitability and overall return on equity. Mahboub and Ahmed (2016) probed

International Monetary Fund | April 2016, Chapter 1, Recent **Developments and Prospects**

² Annual Report OPEC 2017: The World Economy, The Impact of Oil Price on Asia: 2017 Marsh & McLennan Companies, Inc

³ Analysis and Forecasts to 2022: Gas 2017, International Energy

⁴ Analysis and Forecasts to 2023 Gas 2018, International Energy Agency

the impact of oil price shocks on the manufacturing sector in Saudia Arabia over the period of 2002 to 2014. Vector Auto Regressive (VAR) model used to determine that oil price shocks have the insignificant impact on the manufacturing sector in Saudi Arabia. Aimer (2016) examined the effects of oil price volatility on the four economic sectors of Libya based on 27-year analysis. Granger Causality Test applied to disclose that agriculture and construction sector could be affected by the change in oil price in the same direction. Seth et al. (2016) explored the influence of oil price volatility and its impact on Indian industry by examining manufacturing sector. The ordinary least square (OLS) method applied to report that oil price changes significantly affect the cost of raw material and revenue of automobile industry, dyes industry, chemical industry and oil refinery industry. Daddikar and Rajgopal (2016) applied GARCH model to estimate the volatility trend. The study found that firm value and financial performance partly affected by the change in oil price as per regression analysis and oil prices affect selected firm differently because of equity pattern, economies of scale and other factors.

Besides that, Hazarika (2015) conducted a study to determine the performance of the top five oil and gas companies in the world. Simple linear regression method applied to show that there is no statistically significant relationship exist between oil and profitability, liquidity and performance of the top five oil and gas companies. Wattanatorn and Kanchanapoom (2012) revealed a study to determine the interaction between crude oil prices and its impact on the profitability performance of listed companies of Thailand Stock Exchange over the period of 2001 to 2010. Panel data regression and generalized least square (GLS) estimation method applied to report that the profitability performance has positive relationship with fluctuation in oil prices. Aliyan (2013) examined the influence of oil prices on industrial production from Iran and applied Vector Auto Regression (VAR) model to shows industrial production increases with the increase in oil price. Elder and Serletis (2009) explored the influence of oil price over industrial output and found that unsure rise in oil price has causes of reduction in industrial production, mining, oil and gas extraction. The outcomes of the rise in oil price are less damage for the industry than the decline in oil price. Liu and Ma (2017) found the interaction between oil prices and world natural gas industry and China separately. According to the study, oil prices positively affect the profit and growth of gas industries and attract the investors. In increasing trend of oil prices become a cause to increase demand for natural gas that's why the growth of gas industries goes up. Similarly, reduction in oil prices creates a problem of cash flow, capital expenditure, and supply of natural gas. In china's perspective, reduction in oil prices affects profit margin and gas consumption. Rodríguez (2007) explored the interaction between oil price shocks and industrial output by analyzing eight-industry group of six OCED (Organization for Economic Development) countries. The study used Vector Auto regression (VAR) methodology for each country. As per result of the study that rise in oil price negatively affects overall manufacturing production in six countries, however, each country response differently. Homogeneity found among USA and UK relationship between oil prices and industrial output but heterogeneity existed among four countries of European Economic and Monetary Union (EMU).

and Chen (2014) Zhang examined the interaction between oil prices and China's bulk commodity market and investigated the impact of oil price shocks towards China's fundamental industries. The study consisted from 8th October 2001 to 30th September 2011 and separately applied on Wenhua China's Commodity Index (CCI) and West Texas Intermediate (WTI). Maximum likelihood estimation (MLE) method applied as parameters for estimation with RATS statistical software. ARMA GARCH model used to explicit the influence of oil price shocks on China's bulk commodities market. The research revealed that oil prices volatility has the significant influence on CCI. Oil price volatility did not affect Grain and metal market like other industries so the study suggested investor should make the investment in these industries for portfolio diversification.

Most of the stock level studies have revealed that increase in energy prices have positive impact on stock performance. Falzon and Castillo (2013) collected 461 months data to analyze the relationship between oil prices and equity return in the UK and US. The study reported that higher oil price variation led to higher equity return variation, revealing the higher risk in the market. Rahmanto et al. (2016) applied linear and asymmetric models and divided data into nine sectors to know the impact of crude oil prices. According to their study the stock return increase with the increase in oil prices. Dadashi et al. (2015) explored the relationship between oil prices and value of the listed firm in Tehran Exchange by analyzing data from manufacturing firms during the period of April 2003 to March 2012. Based on Spearman's correlation coefficient that oil prices and stock prices have the positive relationship. Caporale et al. (2015) performed Mean bivariate VAR GARCH model to prove that unsure changes inoil prices have the positive impact of the unexpected shift in the aggregate demand on all sectoral stock returns excluding three sectors. Hamma et al. (2014) conducted a sector level study on oil price volatility and concluded that unidirectional relationship existed between oil market and Tunisian stock market and degree of variation different from sector to sector. Baars and Rukavishnikova (2014) investigated the

relationship between oil price volatility and the stock return of clean energy companies. The study explored data from 85 companies over the period of 2004 to 2014 and applied deductive and inductive research methods. The study found that stock return positively affected by the variation in oil prices and every sector affected by oil prices differently.

Furthermore, Gencer and Demiralay (2013) applied VAR and VEC models to determine the long run and short run relationship between oil prices and stock returns. The study found that oil prices have the positive impact on sector stock return. Jafarian and Safari (2015) examine the association between oil prices and 08 different industrial sectors of Malaysian Stock Market over the period of January 2000 to March 2014. The OLS regression analysis disclosed that oil prices have the significant and positive impact on the Kuala Lumpur Composite Index's (KLCI) return at 10% level of significance. Waheed et al. (2017) reported by individual firm analysis that 27.45% companies have significant positive effect while 25.69% companies have the insignificant effect and 5.28% companies have significant negative effect due to change in oil prices. However, according to full sample, the result of the asymmetric analysis that oil prices shocks have the significant positive impact on stock return.

Lis et al. (2012) investigated the interaction between crude oil prices and stock returns of car manufacturing companies. German and USA car manufacturing companies are more responsive than Japan car manufacturing companies against fluctuation in oil prices. Gencer and Demiralay (2014) conducted research to estimate the sensitivity of changes in oil prices and its impact on five services and industrial sectors by exploring daily data of BIST 100 Index (Borsa Istanbul). The study revealed that oil price has the significant impact on sectoral return and each sector return affects differently in the response to the change in oil price. Additionally, past news also affects the stock return of each sector against the fluctuation of oil prices. Gupta (2016)'s study consisted of monthly data from 70 countries over the period of 1983 to 2014 and deduced that oil-exporting countries face more difficulties than oil importing countries by volatility in oil prices. Gormus (2013) used two different approaches for Istanbul Stock Exchange (ISE-100) and S & P 100. The conclusion made by applying Ordinary Least Square (OLS) method that oil price changes have a significant influence on Turkish stock market and Turkish stock market relatively gets more affected than US stock market.

Some of the stock level studies have confirmed that rise in energy prices have negative impact on stock performance. Janor et al. (2013) deduced that oil price shocks increased uncertainty in KLCI and escalate investment risk. Arshad and Bashir (2015) concluded as per panel regression results of this study that stock

returns of chemicals and textile industry negatively affected by the change in oil prices.

Empirical Model, Data, and III. METHODOLOGY

a) Data and sample

The population of selected industrial sector is consisted on 178 firms. Based on the availability and accessibility of the data only 67 companies used in the study to make analysis. The population and the sample of the research consist of the listed companies of Pakistan Stock Exchange (PSX). The sample firms classified by Pakistan Stock Exchange and the study contemplates on annual balanced panel data of each sector over the period of 2007 to 2016. The annual report of selected firms collected by different sources, which include firms official websites, Pakistan Stock Exchange, Business Recorder and Khi Stocks. A total of 67 companies included in our sample size out of which 23 firms selected from textile sector, 13 firms selected from the cement sector, 14 firms selected from the sugar sector, 10 firms from the automobile assembling sector and 07 firms selected from the pharmaceutical sector.

b) The study variables

The study contains 08 variables in which 03 dependent variables (Return on Equity, Return on Asset and Profit Margin Ratio), 04 independent variables (Oil Price, Gas Price, Electricity Fixed Price and Electricity Variable Price), and 01 controlled variable (Exchange Rate), employed to analyze the relationship between them. Figure 3 A, and 3 B, present the oil and gas prices. Figure 3 C, and 3 D display electricity prices and exchange rate mentioned in Figure 3 E.

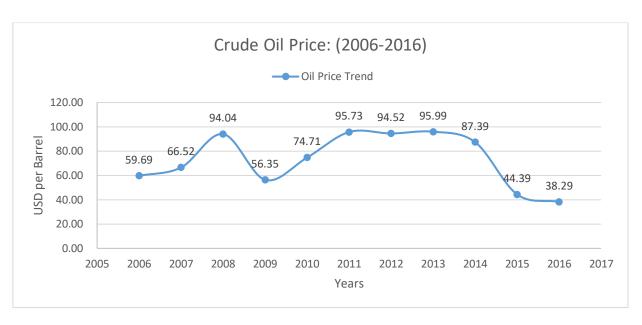


Figure 3 A: Average crude oil prices during 2006-2016 as per U.S. Energy Information Administration

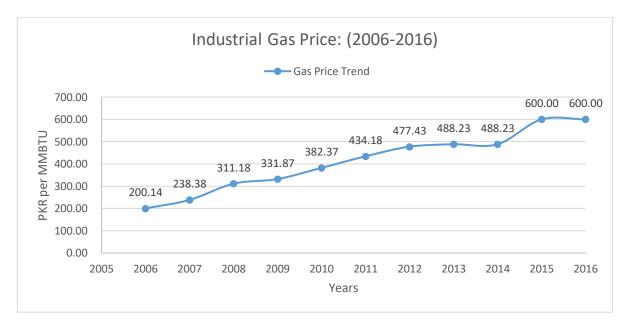


Figure 3 B: Average industrial gas prices during 2006-2016 as per The Oil and Gas Regulatory Authority (OGRA)-Pakistan

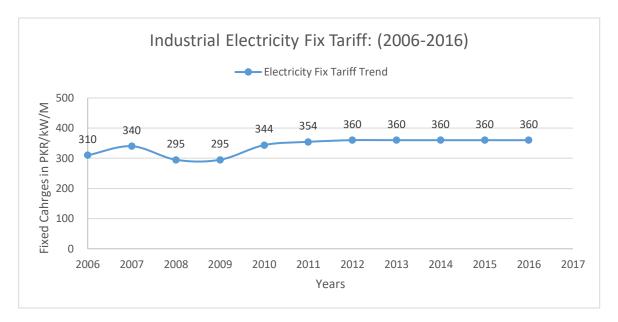


Figure 3 C: Average industrial electricity fixed prices during 2006-2016 as per The National Electric Power Regulatory Authority (NEPRA)-Pakistan

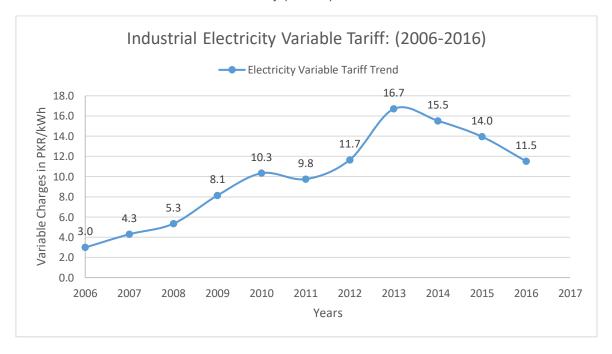


Figure 3 D: Average industrial electricity variable prices during 2006-2016 as per The National Electric Power Regulatory Authority (NEPRA)-Pakistan

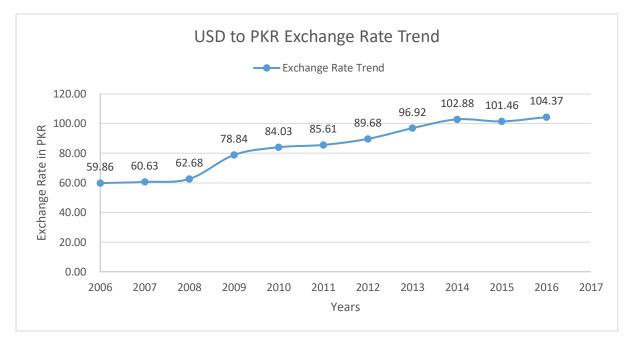


Figure 3 E: Average exchange rate (USD to PKR) during 2006-2016 as per State Bank of Pakistan (SBP)

c) Estimation method

The key objective of this part of the study is to apply the appropriate research methodology to draw outcomes. The quantitative approach to be used to analyze the data to obtain the study findings. The data converted into a format that can be used to measure and answer the research questions. Panel data is used to analyze the relationship between oil, gas, electricity prices and the financial performance of different manufacturing industries of Pakistan. Panel data have benefits in terms of additional variability, smaller collinearity between the variables, high degree of freedom and high efficiency (Baltagi, 2005, Econometric Analysis of Panel Data). The Panel least square method is applied in the study to estimate the effect of energy prices and the financial performance of the firms. As reported by Wattanatorn and Kanchanapoom (2012), the generalized least square method uses to estimate equations instead of ordinary least square method and to deal with heteroscedasticity and autocorrelation problems. Similarly endogeneity problem may be created because of fixed effects model, therefore there are two method used in this study such as fixed effects and random effects in term to deal such problem. The study considers panel least square with fixed effect models and random effect models to check the relationship between energy price and the financial performance of different industries in Pakistan.

i. Model specification

To investigate the empirical analysis, a multifactor regression model structured to examine the relationship between energy price and firm financial performance. Equations 3.1, 3.2 and 3.3 run on E views

to investigate the impact of energy prices on the financial performance of each sector of the firms.

$$ROA_{i,t} = \beta_{0 i,t} + \beta_1 OIL_{i,t} + \beta_2 GAS_{i,t} + \beta_3 ELFR_{i,t} + \beta_4 ELVR_{i,t} + \beta_5 ER_{i,t} + e_{i,t}$$
3.2

$$PMR_{i.t} = \beta_{0 i.t} + \beta_1 OIL_{i.t} + \beta_2 GAS_{i.t} + \beta_3 ELFR_{i.t} + \beta_4 ELVR_{i.t} + \beta_5 ER_{i.t} + e_{i.t}$$
3.3

 β_0 : Intercept, β_1 : coefficient of OIL, β_2 : coefficient of GAS, β_3 : coefficient of ELFR, β_4 : coefficient of ELVR, β_5 : coefficient of ER, e: error term

where ROE i.t, signify Return on Equity of i'th firm and performance in year t. ROA i.t and PMR i.t represent Return on Assets and Profit Margin Ratio of i'th firm and performance in year t. Where β is the constant and OIL it is the price return of annually oil prices. Annual Gas price return is denoted by GAS i.t. Where ELFR i.t and ELVR it represents the annual price return of Electricity Fixed Tariff and Electricity Variable Tariff. ER it denotes Pakistan Rupee Exchange Rate return against US Dollar on annual basis. where e it, is a disturbance term.

EMPIRICAL RESULTS IV.

Descriptive statistics for sectoral analysis

Table 1, contains the statistical summary of textile, cement, sugar, automobile and pharmaceutical sector over the period of 2007 to 2016. In the statistical summary included mean, maximum value, minimum value and standard deviation of the dependent variables are used in the study. The extreme average value of ROE in the sectoral study is 14.70% and the lowest average value of ROE is -303%. Its mean ROE of automobile sector generates a highest average return from five industrial sectors while the sugar sector faces huge average losses against ROE within the five sectors. The minimum and maximum value from sector analysis in terms of ROE is -21279% and 1050% respectively. It indicates that the sugar sector is one of the sectors, which provides the lowest and highest return over ROE as compared to other sectors.

Table 1: Sectoral descriptive statistics over the period of 2007-2016

Industry	Variables	Mean	Maximum	Minimum	Std. Dev.
Textile	ROE	-0.06	1.29	-26.46	1.84
	ROA	0.05	0.54	-0.27	0.08
	PMR	0.04	7.30	-10.64	0.97
_	ROE	0.09	0.48	-0.95	0.21
Cement	ROA	0.06	0.24	-0.18	0.09
	PMR	0.05	0.31	-2.14	0.29
_	ROE	-3.03	10.50	-212.79	24.59
Sugar	ROA	0.02	0.24	-0.27	0.08
	PMR	0.00	0.43	-0.49	0.11
_	ROE	0.15	0.65	-1.64	0.31
Automobile	ROA	0.09	0.42	-0.27	0.11
	PMR	0.03	0.18	-1.34	0.16
_	ROE	0.09	0.52	-3.81	0.52
Pharma	ROA	0.10	0.37	-0.13	0.09
	PMR	0.08	0.25	-0.19	0.08

This table describes the descriptive statistics of study's specimen over the period 2007-2016

Pharmaceutical sector performs better than other sectors in term of average value of ROA meanwhile the maximum value and minimum value of ROA is 53.50% and 23.60% respectively. It denotes that the textile sector show an enormous return over ROA but sugar sector generates less return over ROA. The pharmaceutical sector has great mean value in regards to PMR while the maximum value of PMR is 729.50%. It signifies that the textile sector has great potential to

generate profit margin within the entire sample. The standard deviation of the sugar sector is relatively higher than other sectors because its value is 24.59. However, ROA of each sector deviates comparatively low. It indicates that investment in assets of each sector is less risky than other financial indicators such as ROE and PMR.

b) Descriptive statistics for energy variables

Table 2, consists on analytical examination of the statistical summary of energy variables and control variable. The mean value of ELVR is more than other energy variables so it is more risky energy variable beside OIL and GAS. In term of maximum and minimum value. ELVR and OIL value is 52.50% and -49.20% respectively. It identifies the span of both variables. The standard deviation shows the dispersion of variables from their means. Looking through the standard deviation, the most dispersed measure is OIL with the standard deviation of 0.28 and the least scattered variable is ELFR with the standard deviation of 0.07. ELFR shows moderate variability as compare to others energy indicators such as OIL, GAS, and ELVR. In the meantime, OIL and ELVR report high disparity within the energy samples.

Table 2: Descriptive statistics for energy prices over the period of 2007-2016

Variables	Mean	Maximum	Minimum	Std. Dev.
OIL	0.00	0.41	-0.49	0.28
GAS	0.12	0.31	0.00	0.10
ELFR	0.02	0.17	-0.13	0.07
ELVR	0.17	0.53	-0.17	0.24
ER	0.06	0.26	-0.01	0.07

c) Sector-wise regression results

The study examined sector wise panel data to analyze the influence of energy prices on the financial performance of different industries in Pakistan such as textile industry, cement industry, sugar industry, automobile assembling industry and pharmaceutical industry. Run the regression model by applying the fixed effect model to interpret the association of financial performance of firms with energy prices. Later on, draw a conclusion which method would be effective and suitable for the study. Table 3, reports the coefficient values and probability values of return on equity, return on assets and profit margin ratio (return on sales) of the fixed effect model and random effect model for each sector. All energy prices excluding electricity variable prices significantly affect the financial performance of the cement sector based on its probability value at 5% level of significance. Electricity variable price is one of them, which affects insignificantly the return on sales of cement sector because its probability value is more than the 5% level of significance. In the meantime, it also behaves positively with return on sales of cement sector. From other energy variables, only electricity variable prices affect the profitability of the sugar sector with respect to return on assets. Return on assets has a negative association with electricity variable prices from the perspective of the sugar sector in accordance with its coefficient value. The other industrial sectors behave insignificantly against changes in energy prices such as textile, automobile and pharmaceutical sector. However, these sectors have a negative or positive relationship with energy prices as per their coefficient values.

Table 3: Sectoral regression analysis over the period of 2007-2016

Industry	Independent		(β)-Values	3		(P)-Values	3
	Variable	ROE	ROA	PMR	ROE	ROA	PMR
	OIL	0.47	0.03	-0.22	0.35	0.13	0.42
	GAS	-0.33	-0.12	1.24	0.84	0.08	0.16
Textile	ELFR	-0.32	0.14	0.90	0.86	0.07	0.37
	ELVR	-1.16	-0.03	-0.77	0.14	0.31	0.08
	ER	2.33	-0.09	0.91	0.42	0.42	0.56
	OIL	-0.37	-0.14	-0.38	0.00	0.00	0.00
	GAS	-1.07	-0.45	-1.02	0.00	0.00	0.00
Cement	ELFR	-1.00	-0.32	-0.70	0.00	0.00	0.02
	ELVR	0.34	0.09	0.20	0.00	0.00	0.11
	ER	-1.80	-0.68	-1.59	0.00	0.00	0.00
	OIL	-3.67	0.01	-0.02	0.67	0.48	0.52
	GAS	-35.64	0.03	0.05	0.19	0.70	0.64

Sugar	ELFR	36.68	-0.01	-0.14	0.24	0.92	0.25
	ELVR	3.92	-0.07	-0.04	0.77	0.02	0.45
	ER	-74.82	0.37	0.34	0.12	0.00	0.08
_	OIL	-0.07	-0.05	-0.02	0.55	0.06	0.74
	GAS	-0.11	0.00	0.15	0.76	0.96	0.43
Automobile	ELFR	0.02	-0.05	0.02	0.96	0.61	0.92
	ELVR	-0.02	-0.06	0.02	0.93	0.18	0.85
_	ER	-1.72	-0.31	-0.21	0.01	0.05	0.53
_	OIL	0.10	-0.01	0.00	0.67	0.88	0.91
	GAS	0.49	-0.06	-0.01	0.53	0.52	0.89
Pharma	ELFR	0.29	0.04	0.02	0.74	0.72	0.81
	ELVR	0.33	0.03	0.05	0.38	0.57	0.14
	ER	-0.06	-0.30	-0.25	0.97	0.09	0.06

i. Fixed effect model sector-wise results

Table 4, displays the results of the fixed and random effect model. The constant (β0) behave similarly with respect to the fixed and random effect model because there is no change found in the value of constant (β0). However, R-Squared, adjusted R-Squared and probability values of F-Statistics are different. In terms of constant (60), the aggregative effect of energy prices is positive with the financial performance of different sector meanwhile, profit margin ratio partially negative with respect to energy prices. There is a cumulatively negative relationship exist between the textile and sugar sector with energy prices from the perspective of profit margin ratio. As per fixed effect model, the energy prices and control variable dominate over the financial performance of cement and pharmaceutical sector in accordance with R-Squared analysis. Similarly, if more independent variables included in the fixed effect model then cement and pharmaceutical sector would be affected relatively more comparatively other industrial sectors according to adjusted R-Squared values. The probability values of F-Statistics show that energy prices and exchange rate mutually and significantly affect the financial indicator of each sector except return on equity of textile, sugar, pharmaceutical, and profit margin ratio of textile sector.

Table 4: Sectoral fixed and random effect model over the period of 2007-2016

Model	Industry	С	onstant	β_0	R-Squared			Adjusted R-Squared			Prob. F-Statistics		
Model	maustry	ROE	ROA	PMR	ROE	ROA	PMR	ROE	ROA	PMR	ROE	ROA	PMR
	Textile	0.04	0.07	-0.05	0.11	0.20	0.03	-0.01	0.09	-0.10	0.93	0.01	1.00
	Cement	0.29	0.15	0.25	0.62	0.78	0.51	0.56	0.74	0.44	0.00	0.00	0.00
Fixed	Sugar	4.39	0.01	-0.02	0.15	0.55	0.34	0.02	0.48	0.24	0.31	0.00	0.00
Effect	Automobile	0.26	0.11	0.02	0.39	0.68	0.30	0.29	0.63	0.18	0.00	0.00	0.00
	Pharma	-0.03	0.12	0.08	0.26	0.58	0.73	0.12	0.50	0.67	0.07	0.00	0.00
	Textile	0.04	0.07	-0.05	0.02	0.07	0.03	-0.01	0.05	0.01	0.63	0.01	0.21
D 1	Cement	0.29	0.15	0.25	0.50	0.64	0.30	0.48	0.63	0.27	0.00	0.00	0.00
Random Effect	Sugar	4.39	0.01	-0.02	0.05	0.10	0.07	0.02	0.06	0.03	0.19	0.02	0.09
Effect	Automobile	0.26	0.11	0.02	0.18	0.22	0.02	0.13	0.18	-0.03	0.00	0.00	0.81
	Pharma	-0.03	0.12	0.08	0.06	0.08	0.10	-0.02	0.00	0.03	0.59	0.40	0.21

This table describes the fixed effect and random effect analysis of study's specimen over the period 2007-2016.

ii. Random effect model sector-wise results

In sector wise panel estimation, the random effect model applied to estimate the impact of energy price on the financial performance of the different sector. Later on, draw a conclusion which method would be effective and suitable for the study. Table 4 reports the outcomes of the random effect model. The constant (β0)

behave similarly in both models like fixed and random effect model because of no change found in the value of constant (\(\beta \)). The R-Squared values signify that energy prices have a big influence on the financial performance of the cement sector. Furthermore, if more independent variables included in the random effect model then only cement sector would be affected as compared to other industrial sectors from the perspective of adjusted R-Squared. The probability values of F-Statistics of each sector show that energy prices and the exchange rate has a partially significant impact on the financial performance of the different industry. Meanwhile, energy prices insignificantly affect the financial indicator of the pharmaceutical sector.

d) Hausman test

After applying the random effect and fixed effect method separately of regression analysis, it is necessary to make a better choice. The Hausman test conducted to eradicate ambiguity regarding the behavior of intercept whether intercept behaves randomly or fixed. Table 5, identifies the results of return on equity, return on asset, profit margin ratio (return on sales) by using the Hausman test for each industrial sector. Results justify that intercept of ROE, ROA and PMR for each sector behave randomly because its probability value is greater than the 5% at 5% level of significance. Therefore, the random effect model is the right choice to take better results for each industrial sector of the study.

Table 5: Hausman Test over the period of 2007-2016

Hausman Test

Test Summary	Chi-Sq. Statistic	Chi-Sq. d.f.	Prob.
Cross-section random	0.000000	5	1.0000

This table describes the Hausman Test of study's specimen over the period 2007-2016.

V. Conclusions

This research proves previous finding that oil prices have positive impact on the financial performance of different industries in Thailand, Wattanatorn and Kanchanapoom, 2012). The study also compliments the previous research that oil prices have the significant and positive impact on the financial performance of pharmaceutical companies in Jordan, (Basha, 2014). This study supports the previous research that oil price affects the firm's financial performance positively, (Daddikar and Rajgopal, 2016), and (Lele, 2016). Sample firms included in Large Scale Manufacturing industries of Pakistan as per division of Pakistan Bureau of Statistics. Fixed effect estimator and random effect estimator are applied to each sector for regression analysis while the Hausman Test is performed to know the appropriate method of regression analysis. Random effect model considered appropriate method based on the Hausman test.

First of all the return on asset more significantly affected by variation in the energy prices than other financial indicators such as return on equity and profit margin ratio based on the entire sample of the study. Secondly, the return on equity significantly affected by changes in energy prices as a whole Large Scale Manufacturing sample firms. The profit margin ratio or return on sales is least and significantly affected by changes in energy prices which are considered as aggregate sample.

The energy prices have the huge and significant impact on the financial performance of the cement industry of Pakistan like return on equity, return on asset and return on sales. The electricity variable prices under energy prices have enormous and significant impact on financial performance of sugar sector of Pakistan in terms of return on assets. The exchange rate is considered as control variable playing a vital role in the whole model to control financial indicators such as return on equity, return on asset and return on sales. The exchange rate has a significant relationship with every financial indicator of the study never with every

To summarize the effect of energy prices on the financial performance of different industries in Pakistan that energy prices significantly and immensely effect the financial performance indicators such as return on equity, return on asset and return on the sale of cement sector of Pakistan. However, there is no effect of energy prices on automobile assembling and manufacturing sector, textile sector, and pharmaceutical sector even anv single indicator of the energy computation. The second most affected sector of large-scale manufacturing industries of Pakistan is the sugar sector. In the sugar sector, the return on assets significantly affected by the changes in electricity variable prices while return on equity and return on equity is not affected by the changes in energy prices. The exchange rate is playing significant role in the entire model, it affects every financial indicator like return on equity, return on assets and return on sales. The exchange rate controlled the financial performance of cement sector, sugar sector and automobile assembling sector of Pakistan, however there is no serious effect of exchange rate on the financial performance of textile sector and pharmaceutical sector of Pakistan.

Further in conclusive remarks, based on the intercept values in large-scale manufacturing industry that the aggregate coefficient of energy prices have the positive impact on the financial performance of different industries in Pakistan.

References Références Referencias

- 1. Aimer, N.M.M., 2016. The Effects of Oil Price Volatility on the Economic Sectors of Libya. International Journal of Business and Social Research 6, 13-24.
- 2. Dadashi, A., Pakmaram, A., Din, M.M., 2015. Investigating Effect of Oil Prices on Firm Value with Emphasis on Industry Type. International Journal of Academic Research in Accounting, Finance and Management Sciences 5, 109-129
- Gormus, N.A., 2013. Oil Price Shocks and Subsector Performance of Turkey: Impact of Dominant Markets. Journal of Applied Finance & Banking 3, 169-180.
- 4. Aliyan, A.M., 2013. Effect of oil prices fluctuations on industrial productions in Iran. European Online Journal of Natural and Social Sciences 2, 572-583.
- Jafarian, A., Safari, M., 2015, Impact of Oil Price Fluctuations on Returns of Different Sectors of Malaysian Stock Market. Journal of Modern Accounting and Auditing 11, 159-167
- Baltagi, B.H. 2005. Econometric Analysis of Panel Data. Third Edition, John Wiley & Sons, Ltd.
- Basha M.H., 2014. Impact of Increasing the Crude Oil Prices on the Financial Performance of Pharmaceutical Companies Operating in Jordan: Jordanian Case Studv of Al-Hikma Pharmaceutical Company. European Journal of Business and Management 6, 150-156.
- Lis, B., Nebler, C., Retzmann, J., 2012. Oil and Cars: The Impact of Crude Oil Prices on the Stock Returns of Automotive Companies. International Journal of Economics and Financial Issues 2, 190-200.
- Bolaji, B.O., Bolaji, G.A., 2010. Investigating the Effects of Increase in Oil Prices on Manufacturing Companies in Nigeria. The Pacific Journal of Science and Technology 11, 387-390.
- 10. Zhang, C., Chen, X., 2014. The impact of global oil price shocks on China's bulk commodity Markets and fundamental industries. Energy Policy 66, 32-41.
- 11. Seth, D., Giridhar, B.S., Krishnaswami, S., 2016. Impact of Crude Oil Price Changes on Select Indian Industries. International Journal of Social Sciences and Management 3, 87-92
- 12. Rahmanto, F., Riga, M.H., Indriana, V., 2016. The Effects of Crude Oil Price Changes on the Indonesian Stock Market: A Sector Investigation. Indonesian Capital Market Review 8, 12-22
- 13. Ferderer, J.P., 1996. Oil Price Volatility and the Macroeconomy. Journal of Macroeconomics 18, 1-26.
- 14. Gencer, G., Demiralay, S., 2013. The Impact of Oil Prices on Sectoral Returns: An Empirical Analysis

- from Borsa Istanbul. Theoretical and Applied Economics 20, 7-24.
- 15. Caporale, G.M., Ali, F.M., Spagnolo, N., 2015. Oil Price Uncertainty and Sectoral Stock Returns in China: A Time-Varying Approach. China Economic Review 34, 311-321.
- 16. Mahboud, A.A., Ahmed, H.E., 2016. The Effect of Oil Price Shocks on the Saudi Manufacturing Sector. Topics in Middle Eastern and African Economies 18, 185-200.
- 17. Gencer, H., Demiralay, S., 2014. Shock and Volatility Spillovers between Oil Prices and Turkish Sector Returns. International Journal of Economics and Finance 6, 174-180.
- 18. Janor, H., Rahman, A., Housseinidoust, E., Rahim, R.A., 2013. Oil Price Fluctuations and Firm Performance in an Emerging Market: Assessing Volatility and Asymmetric Effect. Journal of Economics, Business and Management 1, 385-390.
- 19. Hondroyiannis, G. & Papapetrou, E., 2001. Macroeconomic Influences on the Stock Market. Journal of Economics and Finance 25, 33-49.
- 20. Frias, H.C., 2000. The Price of Oil in a World of Equals. Foresight 2, 375-378.
- 21. Haq, I.U., 2017. Impact of Oil Prices on Financial Performance of Corporate Firms: A Study of Omani Companies. International Journal of Accounting Research 3, 34-41.
- 22. Hazarika, I., 2015. Performance Analysis of Top Oil and Gas Companies Worldwide with reference to Oil Prices. Journal of Energy and Economic Development 1, 62-78
- 23. Elder, J., Serletis, A., 2009. Oil Price Uncertainty in Canada. Energy Economics 31, 852-856.
- 24. Falzon, J., Castillo, D., 2013. The Impact of Oil Prices on Sectoral Equity Returns: Evidence from UK and US Stock Market Data. Journal of Financial Management Markets and Institutions 1, 247-268.
- 25. Gupta, K., 2016. Oil Price Shocks, Competition, and Oil & Gas Stock Returns-Global Evidence. Energy Economics 57, 140-153.
- 26. Liu, Y., Ma, L., 2016. Impacts of Low Oil Price on China and the World Natural Gas Industry Chain. Energy Economics 3, 493-503.
- 27. Loungani, P., 1986. Oil Price Shocks and the Dispersion Hypothesis. The Review of Economics and Statistics 68, 536-539,
- 28. Yan, L., 2012. Analysis of the International Oil Price Fluctuations and Its Influencing Factors. American Journal of Industrial and Business Management 2,
- 29. Mork, K.A., 1989. Oil and Macroeconomy When Prices Go Up and Down: An Extension of Hamilton's Results. Journal of Political Economy 97, 740-744.
- 30. Shaari, M.S., Pei, T.L., Rahim, H.A., 2013. Effects of Oil Price Shocks on the Economic Sectors in

- Malaysia. International Journal of Energy Economics and Policy 3, 360-366.
- 31. Baars, N., Rukavishnikova, A., 2014. The Impact of Oil Price Fluctuations on Stock Performance of Clean Energy Companies: A global study on a corporate level. School of Economics and Management, Lund University.
- 32. Brien, D.O., Weymes, L., 2010. The Impact of Oil Prices on Irish Inflation. Central Bank of Ireland, Quarterly Bulletin Articles 66-82.
- 33. Daddikar, P.V., Rajgopal, M., 2016. Impact of Crude Oil Price Volatility on Firm's Financial Performance Empirical Evidence from Indian Petroleum Refining Journal of Interdisciplinary Sector. Imperial Research 2, 1728-1742.
- 34. Arshad, R., Bashir, A., 2015. Impact of Oil and Gas Prices on Stock Returns: Evidence From Pakistan's Energy Intensive Industries. International Review of Social Sciences 3, 156-168.
- 35. Rodríguez, R.J., 2007. The Industrial Impact of Oil Price Shocks: Evidence from the Industries of Six OECD Countries. BANCO DE ESPAÑA.
- 36. Waheed, R., Wei, C., Sarwar, S., Lv, Y., 2017. Impact of Oil Prices on Firm Stock Return: Industry Wise Analysis. Empirical Economics 55, 765-780.
- 37. Sadorsky, P., 1999. Oil Price Shocks and Stock Market Activity. Energy Economics 21, 449-469.
- 38. Lele, U., 2016. Impact of Oil Prices on Revenue Growth and Profitability of Saudi Listed Companies in Non-Financial Sectors. International Journal of Management, Information Technology Engineering 4, 13-20.
- 39. Hamma, W., Jarboui, A., Ghorbel, A., 2014. Effect of Oil Price Volatility on Tunisian Stock Market at Sector Level and Effectiveness of Hedging Strategy. Procedia Economics and Finance 13, 109-127.
- 40. Wattanatorn, W., Kanchanapoom, T., K., 2012. Oil Prices and Profitability Performance: Sector Analysis. Procedia - Social and Behavioral Sciences 40, 763-767.
- 41. Bayar, Y., Kilic, C., 2014. Effects of Oil and Natural Gas Prices on Industrial Production in the Eurozone Member Countries. International Journal of Energy Economics and Policy 2, 238-247.

This page is intentionally left blank



Global Journal of Management and Business Research: C Finance

Volume 19 Issue 3 Version 1.0 Year 2019

Type: Double Blind Peer Reviewed International Research Journal

Publisher: Global Journals

Online ISSN: 2249-4588 & Print ISSN: 0975-5853

Comparison and Analysis of Profitability of Top Three Nationalized Commercial Banks in Bangladesh

By Saeed Sazzad Jeris

Abstract- Banks are playing a vital role in the economic & financial development of Bangladesh. Profitability indicates the overall performance of the banks. In this study, it has been tried to compare the top three nationalized commercial banks by some financial parameters, and it relies on secondary sources of data. In this paper, I used statistical tool ANOVA for comparison. The result indicates the statistical difference among these banks and their performance is not stable.

Keywords: bank, profitability, performance, ANOVA.

GJMBR-C Classification: JEL Code: G21



Strictly as per the compliance and regulations of:



© 2019. Saeed Sazzad Jeris. This is a research/review paper, distributed under the terms of the Creative Commons Attribution-Noncommercial 3.0 Unported License http://creativecommons.org/licenses/by-nc/3.0/), permitting all non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited.

Comparison and Analysis of Profitability of Top Three Nationalized Commercial Banks in Bangladesh

Saeed Sazzad Jeris

Abstract- Banks are playing a vital role in the economic & financial development of Bangladesh. Profitability indicates the overall performance of the banks. In this study, it has been tried to compare the top three nationalized commercial banks by some financial parameters, and it relies on secondary sources of data. In this paper, I used statistical tool ANOVA for comparison. The result indicates the statistical difference among these banks and their performance is not stable.

Keywords: bank, profitability, performance, ANOVA.

I. Introduction

inancial sector plays a crucial role in the economic & financial development of a country. An efficient financial system is required to ensure the formation of capital. A sound financial infrastructure is rare in many developing countries like Bangladesh. As financial markets are usually underdeveloped, the importance of banks is more pronounced in developing countries, and banks are considered a principal source of finance for the majority of firms (Arun and Turner, 2004). Banks are unlikely to gain a sustainable competitive advantage unless they can extend its product quality beyond the core service with additional and potential service features and value. In this regard, profitability and solvency are any bank's significant concern(Chang et al., 1997).

The Nationalized Commercial Banks (NCBs) of Bangladesh is one of key the tool for achieving socioeconomic objectives, and the commercial banking system dominates Bangladesh's financial sector. The banking system of Bangladesh is composed of eight state-owned commercial banks, ten specialized banks, forty-one private commercial banks, one land development bank, and nine foreign commercial banks.

II. **OBJECTIVES**

- 1. To study the profitability ratios of top three nationalized commercial banks, viz. Sonali bank, Janata bank, and Agrani bank.
- 2. To compare the profitability ratios of top three nationalized commercial banks, viz. Sonali bank, Janata bank, and Agrani bank by return on net worth, net interest margin, the cost to income ratio and return on asset.

Ш. Hypothesis

 H_0^1 = There is an insignificant difference among Sonali bank, Janata bank, and Agrani bank by on net worth.

 H_0^2 = There is an insignificant difference among Sonali bank, Janata bank, and Agrani bank by cost to income

 H_0^3 = There is an insignificant difference among Sonali bank, Janata bank, and Agrani bank by return on assets.

 H_0^4 = There is an insignificant difference among Sonali bank, Janata bank, and Agrani bank on the Profitability and solvency are any bank's important concernbasis of net interest margin.

Reference Period IV.

This study has covered the period from 2013 to 2017.

METHODOLOGY

Secondary data and information required for the analysis has been collected from the annual report of Sonali Bank, Janata Bank, Agrani bank and different books, journals, magazines, websites.

STATISTICAL TOOLS VI.

In this study, various tools are used (i.e.) Mean, Standard deviation. Coefficient of variation and ANOVA.

LITERATURE REVIEW

Eichheld and Sassar (1990) have said that the relationship between customer retention and company revenues should build in such a way as a small improvement in customer retention can have a massive effect on company revenues. Amandeep (1991) concluded that the profitability of banks is ascertained mainly by two factors: spread and burden. She recommended in her study that the bank should give more attention to the management of freight, establishment expenses, non-fund income, and deposit composition. Reynolds et al. (2000) used some dependent variables which were regressed to structural variables to evaluate the performance of the bank and financial structure. N S Toor (1994) in his article, said that the profitability in banks seemed to be a crucial

parameter for measuring their performance and their social role got the advantage over the profits and profitability.

Narang et al. (2011) got evidence that some banks achieved remarkable performance owing to the index of interest earned to total asset ratio.

Qin and Pastory (2012) measured profitability of commercial banks in Tanzania from 2000 to 2009. They tested the hypothesis with ANOVA and regression analysis by return on average asset, net interest income to average bearing assets and noninterest expenses to average assets. The study indicates that there was no significant difference in profitability among commercial banks. Swamy (2015) examined the factors of bank asset quality and profitability using panel data techniques and robust data for the period between 1997 and 2009. The study experimented that public sector banks were not found as better risk procedures and technology while private sector banks were superior in this regard. According to Vanar and Dhole (2006). banks should try to maximize their income and should also introduce rules and regulations to minimize expenses because it impacts on the profitability of the bank. Mohd. and Rasidah (2011) measured the impact of bank-specific factors such as liquidity, credit, capital, operating expenses and the size of commercial banks in Malaysia and China. These factors are measured by return on average assets (ROAA) and return on average equity (ROAE), and the result explained that without the credit and capital ratios, other factors are affected differently on the performance of banks in both Malaysia and China.

Measures of Profitability VIII.

The study has tried to compare three top nationalized banks by some financial parameters.

a) Return on net worth

Return on equity (ROE) is a measure of profitability that estimates what profit a company generates with each dollar of shareholders' equity. The formula for ROE is:

ROE = Net Income/Shareholders' Equity

b) The cost to income ratio

The cost to income ratio is used to determine the operating costs of a company about its operating income.

The formula for the cost to income ratio:

Cost to income ratio= operating expenses/ operating income

c) Return on asset

Return on assets ratio or ROA measures how effectively and efficiently a company organizes its assets to produce gain during a period. The formula for return on asset:

Return on asset = net income/total assets

d) Net interest margin

Net interest margin is a profitability ratio that calculates how much money an investment bank is making on its investing operations. The formula for net interest margin:

Net interest margin = (interest income-interest expense)/Average earning assets

Analysis and Findings IX.

a) Return on net worth

Table 1: Return on net worth (%)

Table 1. Hetall of the Worth (70)					
Year/Banks	Sonali Bank	Janata Bank	Agrani Bank		
2012-13	9.89	30.09	25.39		
2013-14	11.05	9.66	5.02		
2014-15	0.99	9.7	1.46		
2015-16	2.18	5.22	(19.06)		
2016-17	10.63	5.23	16.59		
Mean	6.95	11.98	5.88		
Standard Deviation	4.93	10.37	16.84		
Co-efficient of Variation	0.71	0.87	2.87		

Source: Annual reports of the sample banks

In table 1, mean, standard deviation and coefficient of variation of return of net worth of selected banks have been calculated. Janata Bank has the highest mean value, and Agrani Bank has the lowest number. Standard Deviation of profit after tax to equity

shareholder fund of Agrani Bank is 16.84 with the highest coefficient of variation of 2.87 percent. Sonali Bank has a low standard deviation (4.93), and it has a low coefficient of variation i.e., 0.71 percent among top three nationalized commercial banks.

b) The Cost to income ratio

Table 2: Cost to income ratio(%)					
Year/Banks	Sonali Bank	Janata Bank	Agrani Bank		
2012-13	94.47	77.98	74.15		
2013-14	86.8	81.06	74.25		
2014-15	87.54	80.75	79.52		
2015-16	94.01	81.53	86.6		
2016-17	83.92	78.33	80.51		
Mean	89.35	79.93	79		
Standard Deviation	4.67	1.65	5.16		
Co-efficient of Variation	0.05	0.02	0.07		

Source: Annual reports of the sample banks

Table 2 shows the calculation of mean. standard deviation and coefficient of variation of cost to income of selected banks. Sonali Bank has the highest mean value, and Agrani Bank has the lowest value. Standard Deviation of Agrani Bank is 5.16 with the highest coefficient of variation of 0.07 percent, and Janata Bank has 1.65 low standard deviation and low coefficient of variation 0.02 percent.

c) Return on asset

Table 3: Return on Asset(%)						
Year/Banks	Sonali Bank	Janata Bank	Agrani Bank			
2012-13	0.45	1.42	2.04			
2013-14	0.68	0.61	0.4			
2014-15	0.06	0.7	0.12			
2015-16	0.14	0.33	(1.12)			
2016-17	0.58	0.33	1			
Mean	0.38	0.68	0.49			
Standard Deviation	0.27	0.45	1.16			
Co-efficient of Variation	0.71	0.66	2.38			

Table 3 shows the bank-wise mean, standard deviation, and coefficient of variation of return of assets of selected banks. Janata Bank has the highest mean value while Sonali Bank has the lowest figure. Standard Deviation of Agrani Bank is 1.16 with the highest coefficient of variation of 2.38 percent, and Janata Bank has the lowest coefficient of variation.

d) Net interest margin

Table 4 shows the calculation of mean, standard deviation and coefficient of variation of cost to income of selected banks. As is presented in the table, Agrani Bank has the highest mean value, and Janata Bank has the lowest value. Also, the standard deviation Source: Annual reports of the sample banks

of Janata bank is 0.57 with the highest coefficient of variation of 21.98 while Agrani Bank has the modest standard deviation and coefficient of variation.

Table 4: Net interest margin(%)					
Year/Banks	Sonali Bank	Janata Bank	Agrani Bank		
2012-13	0.95	0.47	3.43		
2013-14	1.66	(0.47)	3.9		
2014-15	1.93	(0.64)	3.34		
2015-16	1.94	0.1	3.24		
2016-17	2.3	0.67	3.59		
Mean	1.76	0.03	3.5		
Standard Deviation	0.50	0.57	0.26		
Co-efficient of Variation	0.29	21.98	0.07		

Source: Annual reports of the sample banks

Table 5: Summary of descriptive statistics of financial parameters

Financial Parameters	Highest Rate of Return	Consistency
Return on Net Worth	Janata Bank	Sonali Bank
Cost to Income Ratio	Sonali Bank	Janata Bank
Return on Asset	Janata Bank	Sonali Bank
Net Interest Margin	Agrani Bank	Agrani Bank

The above table illustrates that there are lots of variation in profitability of these nationalized commercial banks. In one parameter, their performance is good, but in other variables, their performance is not consistent.

However, in terms of return on net worth and return on assets Janata Bank has found to be a better performer than Sonali Bank and Agrani Bank.

Table 6: Comparative Analysis of Sonali bank, Janata bank and Agrani bank on the basis of financial parameters

			Return on net worth		
Source of Variation	Sum of Squares	Df	Mean Square	F	p-value
Between Groups Within Groups Total	106.12 1664.71 1770.83	2 12 14	53.05 138.73	0.38	0.69
			Cost to income ratio		
Source of Variation	Sum of Squares	Df	Mean Square	F	p-value
Between Groups	327.5158	2	163.76	9.61	0.003
Within Groups	204.4606	12	17.04		
Total	531.9764	14			
			Return on asset		
Source of Variation	Sum of Squares	Df	Mean Square	F	p-value
Between Groups	0.22492	2	0.11	0.21	0.82
Within Groups	6.49244	12	0.54		
Total	6.71736	14			
			Net interest margin		
Source of Variation	Sum of Squares	Df	Mean Square	F	p-value
Between Groups	30.17185333	2	15.09	69.84	2.45
Within Groups	2.59204	12	0.22		
Total	32.76389333	14			

In Table 6, there is a significant difference at 5 percent level of significance (p-value 0.003) among three banks Sonali Bank, Janata Bank and Agrani Bank

by cost to income ratio. Therefore null hypothesis H_0^2 is rejected.

The p-value of H_0^1, H_0^3, H_0^4 are 0.69, 0.82, 2.45 respectively, hence H_0^1, H_0^3 and H_0^4 are not rejected. There is an insignificant difference among Sonali Bank, Janata

Bank, and Agrani Bank by the return on net worth, return on asset and net interest margin.

e) The summary of analysis

Hypothesis	Decision
H_0^1	Don't Reject
H_0^2	Reject
H^3_0	Don't Reject
H ₀ ⁴	Don't Reject

X. Conclusion

Profitability is an essential criterion to measure the performance of banks. In recent times, nationalized commercial banks are dominant in the banking sector in Bangladesh. However, the banks need to perform better and at the same time maintain the profitability in some perspective to meet the goals. The ratio of return on net worth and return on asset has fluctuated over the years among the banks, and it creates an unstable situation in overall performance. The findings revealed statistically much difference between the top three nationalized commercial banks and also it is suggested for the entire bank to take proper steps to improve the stability of the bank.

References Références Referencias

- 1. Agrani Bank, Annual Report 2013-17. Dhaka: Agrani Bank
- 2. Amandeep (1991) "Profits and Profitability of Indian Nationalized Banks." A Thesis submitted to UBS, PU, Chandigarh.
- 3. Arun, T.G. and Turner, J.D. (2004), "Corporate Governance of banks in Developing Economics; Concepts and issues" Corporate Governance: An International Review, Vol. 12, pp 371-377.
- Chang, Zeph Yun; Chan, Joanne; and Leck, Siew Leng (1997), "Management of market quality for correspondent banking products", *International Journal of Bank Marketing*, pp 32-35.
- Gagandeep Sharma (2017), "Comparison and Analysis of Profitability of Top Three Indian Private Sector Banks", International Journal of Engineering Technology Science and Research, Volume 4, Issue 6
- 6. Janata Bank, Annual Report 2013-17. Dhaka: Janata Bank.
- 7. Md. Imtiaj Rahman, Debasish Adhikary, Salahuddin Yousuf. Productivity and Profitability Analysis of Nationalized Commercial Banks (NCBs) in Bangladesh. *International Journal of Economics, Finance and Management Sciences.* Vol. 2, No. 2, 2014, pp. 197-205. doi: 10.11648/j.ijefm.2014 0202.22

- Mohd. Hanafi Tumin and Rasidah Mohd Said, (2011), "Performance and financial ratios of commercial banks in Malaysia and China", International Review of Business Research Papers, Vol. 7, No. 2, pp 157-169.
- Narang, Bhawna and Prabhakar, Niti (2011), Profitability Analysis: A study of Indian Public sector banks, SS International Journal of Business and Management Research, Vol. 1, pp 188-207.
- 10. Toor, N.S. (1994). Non-Performing Advances in Banks, New Delhi: Skylark Publication.
- 11. Qin X and Pastory D (2012), "Commercial banks profitability position: The case of Tanzania", *International Journal of Business and Management*, Vol. 7, No. 13, pp 136-144.
- 12. Reichheld, F. F.; and Sasser, W. E. (1990), "Zero Defections: Quality Comes to Services", *Harvard Business Review*, Vol. 68, No. 5, pp 105–112.
- 13. Reynolds, S.E. and Ratanakomut, S.G. (2000), "Bank financial structure in pre-crisis East and South East Asia", *Journal of Asian Economy*, Vol. 11, No.3, pp 319-331.
- Sonali Bank, Annual Report 2013-17. Dhaka: Sonali Bank
- 15. Swamy Vighneswara (2015), "Modelling bank asset quality and profitability: An empirical assessment", http://www.economicsejournal.org/economics/discussionpapers/No.2015-27.
- Vanar and Dhole (2006), "A Comparative Study on Profitability Analysis of Selected Nationalised Banks of India", International Multidisciplinary Research Journal, Volume-3, Issue-09.

This page is intentionally left blank



Global Journal of Management and Business Research: C Finance

Volume 19 Issue 3 Version 1.0 Year 2019

Type: Double Blind Peer Reviewed International Research Journal

Publisher: Global Journals

Online ISSN: 2249-4588 & Print ISSN: 0975-5853

Microfinance - A Device to Empower Women

By Sukanya. R

Karnataka State Open University

Abstract- Microfinance is emerging as a powerful tool in eradicating poverty in India. Microfinance has helped in the upliftment of the poor. Banks are not willing to provide credit assistance directly to the poor since they know that they will not be in a position to repay the loan, however the microfinance institutions have played a pivotal role in providing loans to the poor without any collateral. Microfinance has also helped in the upliftment of women in the society. Economic empowerment helps women by encouraging and enabling them to become entrepreneurs. The status of women in the society is improving and microfinance has helped to evoke confidence among women. Women empowerment helps in reducing the disparity between men and women on economic and social grounds. The present paper focuses on the role of microfinance institutions in empowering women in the society.

Keywords: empowerment, microfinance, microcredit, upliftment, etc.

GJMBR-C Classification: JEL Code: G21



Strictly as per the compliance and regulations of:



© 2019. Sukanya. R. This is a research/review paper, distributed under the terms of the Creative Commons Attribution-Noncommercial 3.0 Unported License http://creativecommons.org/licenses/by-nc/3.0/), permitting all non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited.

Microfinance – A Device to Empower Women

Sukanya. R

Abstract- Microfinance is emerging as a powerful tool in eradicating poverty in India. Microfinance has helped in the upliftment of the poor. Banks are not willing to provide credit assistance directly to the poor since they know that they will not be in a position to repay the loan, however the microfinance institutions have played a pivotal role in providing loans to the poor without any collateral. Microfinance has also helped in the upliftment of women in the society. Economic empowerment helps women by encouraging and enabling them to become entrepreneurs. The status of women in the society is improving and microfinance has helped to evoke confidence among women. Women empowerment helps in reducing the disparity between men and women on economic and social grounds. The present paper focuses on the role of microfinance institutions in empowering women in the society. Keywords: empowerment, microfinance, microcredit, upliftment, etc.

I. Introduction

omen empowerment is very essential to rule out discrimination. Empowerment women not only helps in ruling out gender discrimination but also helps in the overall development of the country. Micro finance as part of financial inclusion has played a vital role in providing financial assistance and various other services such as micro savings, micro insurance, micro remittance etc. Financial inclusion is mainly concerned with including the people who are unable to access financial services to access various financial facilities. Financial inclusion mainly operates with the help of Self-help Groups, through Bank linkage programmes. Self-help groups have helped people particularly the rural women to become members of the group and have inculcated the habit of savings. Micro credit is available to the women for starting up small business. Self-help groups also play a major role in providing skill development programme to women to enable them to become entrepreneurs and hence to earn a decent livelihood. The paper is basically descriptive in nature. It aims to identify the various programmes launched by the selfhelp groups as an initiative under financial inclusion to ensure empowerment of women.

II. Microcredit

Microcredit is the small amount of loan that is provided for the upliftment of the weaker section in the society. The borrowers of the loan will consider the commitment seriously and will repay the money in order to be eligible for more amount of loans. There is no

collateral security that will be demanded for providing the loan amount to the borrower. The concept of Microcredit originated from the Grameen Bank in Bangladesh in the year 1983. Microcredit is an essential component of microfinance. There are many financial services provided to the poor in the form of microcredit. Grameen Bank in Bangladesh was founded by Muhammad Yunnis. He started himself providing loans to the poor people from his own money without asking for any collateral security. Grameen Bank was followed by organizations such as BRAC in 1972 and ASA in 1978. Micro credit has played a vital role in the upliftment of the poor section of the society. Muhammed Yunnis founded the Grameen bank which is popularly known as the first modern microcredit institution and was awarded the Noble peace prize in the year 2006.

III. Objectives of Micro Finance

a) Access to funds

Generally, the poor people approach the money lenders in order to obtain loan from them and money lenders charge an exorbitant rate of interest which the poor find it difficult to repay. Bank do not consider poor people as eligible for providing the loans as they are generally the default customers. Hence, micro finance institutions play a vital role in providing small credit to the poor without accepting any collateral for the loan amount that is provided.

b) Encourages Entrepreneurship

Although the underprivileged people have profitable business ideas, they will not be in a position to start and to run the business successfully due to lack of funds. However, microfinance has proved to be a boon to such underprivileged people as they provide loans. The profits earned by entrepreneurs from their business, can be used by the poor to repay the loan amount borrowed by the microfinance institutions.

c) Manage Risk

Micro financial institutions provide financial assistance to the poor which helps them to manage the risk. Banks do not provide any type of financial assistance to the poor as them are not creditworthy.

d) Empower Women

Micro finance institutions are providing loans to women which has helped them to become self –reliant and to earn a decent living. Women are able to become entrepreneurs of small business and improve their standard of living in the society. Micro credit is playing a

crucial role in empowering women and making them to stand on par with men.

e) Community-Wide Benefits

Microfinance institutions help in reducing poverty among the poorer section of the society. More job opportunities help individuals to improve their standard of living. As individuals living standards improve, it helps in the overall development of the economy. Microfinance helps in the countries development.

IV. DIFFERENCES BETWEEN FORMAL BANKING AND MICRO FINANCE

- 1. Form of Organization: Formal banks are basically commercial forms of organisations whereas micro finance institutions are basically social organisations working for the wellbeing of the society.
- 2. Size of the Loan: Formal banks provide loans on a medium and large scale whereas micro finance institutions provide small amount of loans.
- 3. Duration of the Loan: Formal banks provide medium term and long term loans whereas Micro finance institutions provide short duration loans.
- Thrift: Formal banks only concentrate on the loan whereas microfinance institutions focus on loan and also encourage savings habits among the poor people
- 5. Monitoring and Screening: Formal banking follows formal procedures of monitoring and screening whereas the micro finance institutions follow the informal procedures of monitoring and screening for loans provided.
- 6. Repayment: In case of formal banking, collateral and legal pressures are imposed for repayment of loan whereas in case of microfinance, peer pressure and weekly repayment of loans is imposed
- 7. Motivation: In case of formal banks, they are highly motivated to earn more and more profits whereas micro finance institutions are motivated with the intention of encouraging self-help among people belonging to the self-help groups

V. LIST OF MICROFINANCE INSTITUTIONS

in India

There are several microfinance institutions which have been set up and are playing a vital role in providing small amount of loans to the impoverished and are also providing several other benefits. The following is the list of few popular micro finance institutions in India.

- 1. Annapurna Microfinance Pvt Ltd
- 2. Arohan Financial Services Pvt Ltd

- 3. Asirvad Microfinance Pvt Ltd
- Bandhan Financial Services Pvt Ltd
- 5. BSS Microfinance Pvt Ltd
- 6. Cashpor Micro Credit
- 7. Disha Micro fin Pvt Ltd
- 8. Equitas Microfinance Pvt Ltd
- 9. ESAF Microfinance and Investments Pvt Ltd
- 10. Fusion Microfinance Pvt Ltd
- 11. Grama Vidiyal Micro Finance Ltd
- 12. Grameen Financial Services Pvt Ltd
- 13. Jana Lakshmi Financial Services Pvt Ltd
- 14. Madura Micro Finance Ltd
- 15. RGVN (North East) Microfinance Limited
- 16. Satin Credit Care Network Ltd
- 17. Shree Kshetra Dharmasthala Rural Development Project
- 18. SKS Microfinance Ltd.
- 19. S.M.I.L.E Microfinance Ltd
- 20. Sonata Finance Pvt Ltd
- 21. Suryoday Micro Finance Pvt Ltd
- 22. SV Creditline Pvt Ltd
- 23. Swadhaar Fin Serve Pvt Ltd
- 24. Ujjivan Financial Services Pvt Ltd
- 25. Utkarsh Micro Finance Pvt Ltd

VI. SELF HELP GROUP

A self-help group is a voluntary association of people with similar economic background to enable mutual help to all the members of the Self -Help group. Self Help Groups basically act as the intermediaries and mainly consist of 10-20 members who work for the mutual benefit of all the members in the group. The members of the group bring in a small amount of money in the form of regular savings and contribute to a fund and this fund can be used to meet the emergency needs of the group members. The concept of collateral lending is absent and hence ensures peace of mind to the borrowing members of the group. Basically the Selfhelp groups are started by Government organisations. Self-help groups have been playing a vital role in ensuring the upliftment of poor and needy people, are empowering women through skill development activities. Women empowerment through SHG's will help in overcoming poverty and will ensure the economic development of the country.

The progress of SHG bank linkage program from 1992-03 to 2009-10
(Amount in Rupees Crores)

Year	No. of Shg	Increase	Percentage	Loan Amount	Increase	Percentage
1992-93	255	-	-	0.29	-	-
1993-94	620	365	143.14	0.65	0.36	124.14
1994-95	2122	1502	242.26	2.44	1.79	275.38
1995-96	4757	2635	124.18	6.06	3.62	148.36
1996-97	8598	3841	80.744	11.84	5.78	95.38
1997-98	14317	5719	66.515	23.76	11.92	100.67
1998-99	32995	18678	130.46	57.07	33.31	140.19
1999- 2000	114778	81783	247.86	192.98	135.90	238.15
2000-01	263825	149047	129.86	480.87	287.89	149.18
2001-02	461478	197653	74.918	102634	545.47	113.43
2002-03	717360	255882	55.448	2048.67	1022.33	99.609
2003-04	1079091	361731	50.425	3904.2	1855.53	90.572
2004-05	1618456	539365	49.98	6898.46	2994.26	76.693
2005-06	22,38,565	620109	38.31	31975.43	7076.97	102.59
2006-07	29,24,973	686408	30.66	18040.74	4065.31	29.09
2007-08	50,09,794	2085027	71.28	22268.32	4227.58	23.43
2008-09	61,21,147	1114000	22.23	22679.84	411.54	1.848
2009-10	69,59,250	829000	13.54	28038.28	5358.44	23.63

Source: SHG Statistics of NABARD

VII. Role of self Help Groups in Microfinance in India

NABARD has launched the Self Help Groups (SHG) and Commercial Bank Linkage Programmes in 1992. Empowerment of women is very essential for the economic development of the country. Rural women should be provided financial assistance to instill confidence among them and to enable them to have a better standard of living in the society. Microcredit has helped in empowerment of women in India. SHG's have helped women by providing employment opportunities. Income and savings of women has increased hence empowering them economically and socially.

- Encourages savings habits among women: Self Help Groups have played a pivotal role in encouraging rural women to save a small amount of money from their earnings. This has enabled women to become empowered in the society.
- Self Help Groups extend credit facilities to the rural women: Self Help Groups have been extending credit facilities to the rural women without obtaining any type of collateral security. The group guarantee scheme is a boon to the rural women embedded by individual responsibility. Rural women are in a position to avail loan from SHG's without much of formalities.
- 3. Choice of appropriate activities: The rural poor who borrow money from the SHG's are given the freedom to choose any productive activities

- according to their will and wish, this encourages them to be happy and enthusiastic with their activities and hence improves their living standards in the society.
- 4. Encourages Commercialisations: The productive activities that are undertaken by the members of the Self Help Group has encouraged them to take up activities for commercial purpose as they have a commitment of repayment of loan that they have borrowed. Initially the activities were mainly undertaken for domestic consumption but now they have commercialised their productive activities.
- Change in the lifestyle of women: Initially women's role was restricted to only household activities, Self Help Groups have encouraged commercial activities however, now women have empowered socially, culturally and politically.

VIII. Programmes Initiated by Government of India for Women Empowerment

a) Swa-Shakthi

The Swa-Shakthi programme was initiated in India in the vear 1988. This programme mainly aims at the empowerment of rural women in India. The programmes worked through the support of Self-Help Groups. The Swa-Shakthi programme is funded by the World Bank and the International Fund for Agricultural Development. The programme mainly aimed at enabling

women to access financial assistance for their overall wellbeing. The scheme aimed at skill development and income generating activities amongst rural women which helped in women empowerment. During the year 2004-05, out of the total expenditure of 2600 crores, the Government had allotted almost 1.54% towards the Swa-Shakthi Scheme which shows the Governments interest in upliftment of poor and to ensure women empowerment.

b) Swayamsiddha

Swayamsiddha is a popular scheme introduced by the Government of India with the intension of empowering women socially and economically. The name Swayamsiddha clearly indicates the concept of being self-reliant. Women empowerment will help in eroding gender inequality in the society. The scheme provides access to credit to rural women, it also encourages panchayat level participation among the rural women. The scheme works through the Self-help groups which persuades women to work for the overall benefit of the members in the group. Swayamsiddha yogna is a recast of the Indira Mahila Yojana.

- The scheme mainly aimed at encouraging savings habit among women through the small savings scheme.
- The scheme has a unique feature of having association with the government and panchayat officials.
- The scheme works though Self-help Groups wherein homogeneous groups of women who have the same socio-economic status will be formed and the SHG's will be linked with government institutions.
- monitorina Continuous and co-ordinating mechanism is enforced by the Government from time to time

c) Swawlamban Programme

Swawlamban Scheme was introduced by the Department of Women and Child Development, with the partial assistance from Norway from the year 1982. The scheme also aims at making women self -dependent. The scheme aims at providing skill development for women to enable them to take up employment opportunities to lead a dignified living. The poor and underprivileged women are covered under this scheme and women from the weaker section of the society are empowered through financial assistance.

d) Support to Training and Employment Programme

The Government have given importance to Support to Training and Employment Programme for Women (STEP) scheme since 1986. The Government has revised the guidelines of STEP in the year 2016. The STEP Scheme aims to cover the scheme to around 500 million women by the end of the year 2022. The scheme aims at providing skill enhancement programme to the

rural women to enable them to become self -reliant and to take up various employment opportunities. The Government gave liberal grants to the organisations including the NGO's who are providing any type of employability and entrepreneurship to women including various sectors such as Agriculture, Horticulture, Handlooms, Food processing, Embroidery, Zari works, Travel, Hospitality etc.

e) Rajiv Gandhi Scheme for Empowerment of Adolescent Girls (SABLA)

This Scheme was launched to empower adolescent girls. The scheme is managed by the Department of Women and Child Development. Initially the Government had included 200 districts which was extended to 300 districts. Now the Government aims to cover the scheme to many more districts in the country.

The various objectives of the SABLA scheme are as follows:

- 1. To facilitate the empowerment of young girls.
- 2. To enhance vocational skills, life skills and home skills among young girls.
- 3. To spread awareness among young girls about health, education, and nutrition.
- 4. To provide information to the adolescent girls about various public services such as Banks, Police station and Post offices.

Strict monitoring and control mechanism is being adopted to check the functioning of this scheme to ensure better utilisation of resources for the benefit of Adolescent Girls.

Women empowerment and Lively hood programme

Out of the estimated number of people who are poor across the world, it is estimated that around 70% are women. In India it is estimated that only 55% of the women population are literates whereas almost 78% of the male population are literate. Gender inequality has to be eliminated and women should be empowered. The Sabuj Jeevan Deep Prakalpa Programme has been initiated which has formed approximately 655 Self Help Groups wherein more than 10,000 women have been empowered. Women are in a position to access credit provided by these Self Help Groups, women are trained to enable them to become entrepreneurs of small business to lead a dignified life. Sukarya's flagship program has also been initiated with the aim of empowering rural women with the help of Self-Help groups and through livelihood initiatives. The Sukarya's program has helped women to learn skills relating to cereal processing, liquid soap making, paper bag manufacturing etc. The scheme aims to inculcate savings habit among women and to enforce credit discipline. Training for skill development has been initiated to ensure income generating activities for rural women. Women are able to earn a decent living with the help of Self Help Groups.

Conclusion IX.

Although Self-help groups have played a vital role in empowering women, there are several loopholes such as low education level of the members of the Selfhelp group, lack of co-operation between members, non-availability of bank linkage programs, extreme work burden on part of women etc. Efforts should be made to increase the number of Self-help groups, education should be given priority in order to empower women, banks should set up more number of branches in villages and other unconnected parts of the country and measures should be taken for rural infrastructural development.

References Références Referencias

- 1. Report of the Committee on Financial Inclusion in India, 2008. (Chairman: Dr. C. Rangarajan) Government of India, New Delhi.
- Vijay Kelkar, 2009, Financial Inclusion for Inclusion Growth, ASCI Journal of Management.
- Ravi S and Vikramman P, 2012, The Growth of SHG's in India: A Study, Indian Journal of Applied Research.

GLOBAL JOURNALS GUIDELINES HANDBOOK 2019 WWW.GLOBALJOURNALS.ORG

FELLOW OF ASSOCIATION OF RESEARCH SOCIETY IN BUSINESS (FARSB)

Global Journals Incorporate (USA) is accredited by Open Association of Research Society (OARS), U.S.A and in turn, awards "FARSBA" title to individuals. The 'FARSBA' title is accorded to a selected professional after the approval of the Editor-in-Chief/Editorial Board Members/Dean.



The "FARSB" is a dignified title which is accorded to a person's name viz. Dr. John E. Hall, Ph.D., FARSBA or William Walldroff, M.S., FARSBA.

FARSBA accrediting is an honor. It authenticates your research activities. After recognition as FARSBA, you can add 'FARSBA' title with your name as you use this recognition as additional suffix to your status. This will definitely enhance and add more value and repute to your name. You may use it on your professional Counseling Materials such as CV, Resume, and Visiting Card etc.

The following benefits can be availed by you only for next three years from the date of certification:



FARSBA designated members are entitled to avail a 40% discount while publishing their research papers (of a single author) with Global Journals Incorporation (USA), if the same is accepted by Editorial Board/Peer Reviewers. If you are a main author or coauthor in case of multiple authors, you will be entitled to avail discount of 10%.

Once FARSBA title is accorded, the Fellow is authorized to organize a symposium/seminar/conference on behalf of Global Journal Incorporation (USA). The Fellow can also participate in conference/seminar/symposium organized by another institution as representative of Global Journal. In both the cases, it is mandatory for him to discuss with us and obtain our consent.





You may join as member of the Editorial Board of Global Journals Incorporation (USA) after successful completion of three years as Fellow and as Peer Reviewer. In addition, it is also desirable that you should organize seminar/symposium/conference at least once.

We shall provide you intimation regarding launching of e-version of journal of your stream time to time. This may be utilized in your library for the enrichment of knowledge of your students as well as it can also be helpful for the concerned faculty members.







Journals Research

The FARSBA can go through standards of OARS. You can also play vital role if you have any suggestions so that proper amendment can take place to improve the same for the benefit of entire research community.

As FARSBA, you will be given a renowned, secure and free professional email address with 100 GB of space e.g. johnhall@globaljournals.org. This will include Webmail, Spam Assassin, Email Forwarders, Auto-Responders, Email Delivery Route tracing, etc.





The FARSBA will be eligible for a free application of standardization of their researches. Standardization of research will be subject to acceptability within stipulated norms as the next step after publishing in a journal. We shall depute a team of specialized research professionals who will render their services for elevating your researches to next higher level, which is worldwide open standardization.

The FARSBA member can apply for grading and certification of standards of their educational and Institutional Degrees to Open Association of Research, Society U.S.A. Once you are designated as FARSBA, you may send us a scanned copy of all of your credentials. OARS will verify, grade and certify them. This will be based on your academic records, quality of research papers published by you, and some more criteria. After certification of all your credentials by OARS, they will be published on your Fellow Profile link on website https://associationofresearch.org which will be helpful to upgrade the dignity.



The FARSBA members can avail the benefits of free research podcasting in Global Research Radio with their research documents. After publishing the work, (including published elsewhere worldwide with proper authorization) you can upload your research paper with your recorded voice or you can utilize chargeable services of our professional RJs to record your paper in their voice on

request.

The FARSBA member also entitled to get the benefits of free research podcasting of their research documents through video clips. We can also streamline your conference videos and display your slides/ online slides and online research video clips at reasonable charges, on request.





The FARSBA is eligible to earn from sales proceeds of his/her researches/reference/review Books or literature, while publishing with Global Journals. The FARSBA can decide whether he/she would like to publish his/her research in a closed manner. In this case, whenever readers purchase that individual research paper for reading, maximum 60% of its profit earned as royalty by Global Journals, will be credited to his/her bank account. The entire entitled amount will be credited to

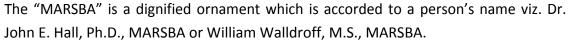
his/her bank account exceeding limit of minimum fixed balance. There is no minimum time limit for collection. The FARSC member can decide its price and we can help in making the right decision.

The FARSBA member is eligible to join as a paid peer reviewer at Global Journals Incorporation (USA) and can get remuneration of 15% of author fees, taken from the author of a respective paper. After reviewing 5 or more papers you can request to transfer the amount to your bank account.



MEMBER OF ASSOCIATION OF RESEARCH SOCIETY IN BUSINESS (MARSBA)

The 'MARSBA' title is accorded to a selected professional after the approval of the Editor-in-Chief / Editorial Board Members/Dean.





MARSB accrediting is an honor. It authenticates your research activities. After becoming MARSBA, you can add 'MARSBA' title with your name as you use this recognition as additional suffix to your status. This will definitely enhance and add more value and repute to your name. You may use it on your professional Counseling Materials such as CV, Resume, Visiting Card and Name Plate etc.

The following benefitscan be availed by you only for next three years from the date of certification.



MARSBA designated members are entitled to avail a 25% discount while publishing their research papers (of a single author) in Global Journals Inc., if the same is accepted by our Editorial Board and Peer Reviewers. If you are a main author or coauthor of a group of authors, you will get discount of 10%.

As MARSBA, you will be given a renowned, secure and free professional email address with 30 GB of space e.g. johnhall@globaljournals.org. This will include Webmail, Spam Assassin, Email Forwarders, Auto-Responders, Email Delivery Route tracing, etc.







We shall provide you intimation regarding launching of e-version of journal of your stream time to time. This may be utilized in your library for the enrichment of knowledge of your students as well as it can also be helpful for the concerned faculty members.

The MARSBA member can apply for approval, grading and certification of standards of their educational and Institutional Degrees to Open Association of Research, Society U.S.A.



Once you are designated as MARSBA, you may send us a scanned copy of all of your credentials. OARS will verify, grade and certify them. This will be based on your academic records, quality of research papers published by you, and some more criteria.

It is mandatory to read all terms and conditions carefully.

AUXILIARY MEMBERSHIPS

Institutional Fellow of Open Association of Research Society (USA)-OARS (USA)

Global Journals Incorporation (USA) is accredited by Open Association of Research Society, U.S.A (OARS) and in turn, affiliates research institutions as "Institutional Fellow of Open Association of Research Society" (IFOARS).



The "FARSC" is a dignified title which is accorded to a person's name viz. Dr. John E. Hall, Ph.D., FARSC or William Walldroff, M.S., FARSC.

The IFOARS institution is entitled to form a Board comprised of one Chairperson and three to five board members preferably from different streams. The Board will be recognized as "Institutional Board of Open Association of Research Society"-(IBOARS).

The Institute will be entitled to following benefits:



The IBOARS can initially review research papers of their institute and recommend them to publish with respective journal of Global Journals. It can also review the papers of other institutions after obtaining our consent. The second review will be done by peer reviewer of Global Journals Incorporation (USA) The Board is at liberty to appoint a peer reviewer with the approval of chairperson after consulting us.

The author fees of such paper may be waived off up to 40%.

The Global Journals Incorporation (USA) at its discretion can also refer double blind peer reviewed paper at their end to the board for the verification and to get recommendation for final stage of acceptance of publication.





The IBOARS can organize symposium/seminar/conference in their country on penal or Global Journals Incorporation (USA)-OARS (USA). The terms and conditions can be discussed separately.

The Board can also play vital role by exploring and giving valuable suggestions regarding the Standards of "Open Association of Research Society, U.S.A (OARS)" so that proper amendment can take place for the benefit of entire research community. We shall provide details of particular standard only on receipt of request from the Board.



Journals Research relevant details.

The board members can also join us as Individual Fellow with 40% discount on total fees applicable to Individual Fellow. They will be entitled to avail all the benefits as declared. Please visit Individual Fellow-sub menu of GlobalJournals.org to have more relevant details.

We shall provide you intimation regarding launching of e-version of journal of your stream time to time. This may be utilized in your library for the enrichment of knowledge of your students as well as it can also be helpful for the concerned faculty members.



After nomination of your institution as "Institutional Fellow" and constantly functioning successfully for one year, we can consider giving recognition to your institute to function as Regional/Zonal office on our behalf.

The board can also take up the additional allied activities for betterment after our consultation.

The following entitlements are applicable to individual Fellows:

Open Association of Research Society, U.S.A (OARS) By-laws states that an individual Fellow may use the designations as applicable, or the corresponding initials. The Credentials of individual Fellow and Associate designations signify that the individual has gained knowledge of the fundamental concepts. One is magnanimous and proficient in an expertise course covering the professional code of conduct, and follows recognized standards of practice.





Open Association of Research Society (US)/ Global Journals Incorporation (USA), as described in Corporate Statements, are educational, research publishing and PROBLEM RADIO professional membership organizations. Achieving our individual Fellow or Associate status is based mainly on meeting stated educational research requirements.

Disbursement of 40% Royalty earned through Global Journals: Researcher = 50%, Peer Reviewer = 37.50%, Institution = 12.50% E.g. Out of 40%, the 20% benefit should be passed on to researcher, 15 % benefit towards remuneration should be given to a reviewer and remaining 5% is to be retained by the institution.



We shall provide print version of 12 issues of any three journals [as per your requirement] out of our 38 journals worth \$ 2376 USD.

Other:

The individual Fellow and Associate designations accredited by Open Association of Research Society (US) credentials signify guarantees following achievements:

The professional accredited with Fellow honor, is entitled to various benefits viz. name, fame, honor, regular flow of income, secured bright future, social status etc.



- In addition to above, if one is single author, then entitled to 40% discount on publishing research paper and can get 10% discount if one is co-author or main author among group of authors.
- ➤ The Fellow can organize symposium/seminar/conference on behalf of Global Journals Incorporation (USA) and he/she can also attend the same organized by other institutes on behalf of Global Journals.
- The Fellow can become member of Editorial Board Member after completing 3yrs.
- ➤ The Fellow can earn 60% of sales proceeds from the sale of reference/review books/literature/publishing of research paper.
- ➤ Fellow can also join as paid peer reviewer and earn 15% remuneration of author charges and can also get an opportunity to join as member of the Editorial Board of Global Journals Incorporation (USA)
- This individual has learned the basic methods of applying those concepts and techniques to common challenging situations. This individual has further demonstrated an in-depth understanding of the application of suitable techniques to a particular area of research practice.

Note:

- In future, if the board feels the necessity to change any board member, the same can be done with the consent of the chairperson along with anyone board member without our approval.
- In case, the chairperson needs to be replaced then consent of 2/3rd board members are required and they are also required to jointly pass the resolution copy of which should be sent to us. In such case, it will be compulsory to obtain our approval before replacement.
- In case of "Difference of Opinion [if any]" among the Board members, our decision will be final and binding to everyone.



Preferred Author Guidelines

We accept the manuscript submissions in any standard (generic) format.

We typeset manuscripts using advanced typesetting tools like Adobe In Design, CorelDraw, TeXnicCenter, and TeXStudio. We usually recommend authors submit their research using any standard format they are comfortable with, and let Global Journals do the rest.

Alternatively, you can download our basic template from https://globaljournals.org/Template.zip

Authors should submit their complete paper/article, including text illustrations, graphics, conclusions, artwork, and tables. Authors who are not able to submit manuscript using the form above can email the manuscript department at submit@globaljournals.org or get in touch with chiefeditor@globaljournals.org if they wish to send the abstract before submission.

Before and during Submission

Authors must ensure the information provided during the submission of a paper is authentic. Please go through the following checklist before submitting:

- 1. Authors must go through the complete author guideline and understand and *agree to Global Journals' ethics and code of conduct,* along with author responsibilities.
- 2. Authors must accept the privacy policy, terms, and conditions of Global Journals.
- 3. Ensure corresponding author's email address and postal address are accurate and reachable.
- 4. Manuscript to be submitted must include keywords, an abstract, a paper title, co-author(s') names and details (email address, name, phone number, and institution), figures and illustrations in vector format including appropriate captions, tables, including titles and footnotes, a conclusion, results, acknowledgments and references.
- 5. Authors should submit paper in a ZIP archive if any supplementary files are required along with the paper.
- 6. Proper permissions must be acquired for the use of any copyrighted material.
- 7. Manuscript submitted *must not have been submitted or published elsewhere* and all authors must be aware of the submission.

Declaration of Conflicts of Interest

It is required for authors to declare all financial, institutional, and personal relationships with other individuals and organizations that could influence (bias) their research.

POLICY ON PLAGIARISM

Plagiarism is not acceptable in Global Journals submissions at all.

Plagiarized content will not be considered for publication. We reserve the right to inform authors' institutions about plagiarism detected either before or after publication. If plagiarism is identified, we will follow COPE guidelines:

Authors are solely responsible for all the plagiarism that is found. The author must not fabricate, falsify or plagiarize existing research data. The following, if copied, will be considered plagiarism:

- Words (language)
- Ideas
- Findings
- Writings
- Diagrams
- Graphs
- Illustrations
- Lectures



- Printed material
- Graphic representations
- Computer programs
- Electronic material
- Any other original work

AUTHORSHIP POLICIES

Global Journals follows the definition of authorship set up by the Open Association of Research Society, USA. According to its guidelines, authorship criteria must be based on:

- Substantial contributions to the conception and acquisition of data, analysis, and interpretation of findings.
- Drafting the paper and revising it critically regarding important academic content.
- 3. Final approval of the version of the paper to be published.

Changes in Authorship

The corresponding author should mention the name and complete details of all co-authors during submission and in manuscript. We support addition, rearrangement, manipulation, and deletions in authors list till the early view publication of the journal. We expect that corresponding author will notify all co-authors of submission. We follow COPE guidelines for changes in authorship.

Copyright

During submission of the manuscript, the author is confirming an exclusive license agreement with Global Journals which gives Global Journals the authority to reproduce, reuse, and republish authors' research. We also believe in flexible copyright terms where copyright may remain with authors/employers/institutions as well. Contact your editor after acceptance to choose your copyright policy. You may follow this form for copyright transfers.

Appealing Decisions

Unless specified in the notification, the Editorial Board's decision on publication of the paper is final and cannot be appealed before making the major change in the manuscript.

Acknowledgments

Contributors to the research other than authors credited should be mentioned in Acknowledgments. The source of funding for the research can be included. Suppliers of resources may be mentioned along with their addresses.

Declaration of funding sources

Global Journals is in partnership with various universities, laboratories, and other institutions worldwide in the research domain. Authors are requested to disclose their source of funding during every stage of their research, such as making analysis, performing laboratory operations, computing data, and using institutional resources, from writing an article to its submission. This will also help authors to get reimbursements by requesting an open access publication letter from Global Journals and submitting to the respective funding source.

Preparing your Manuscript

Authors can submit papers and articles in an acceptable file format: MS Word (doc, docx), LaTeX (.tex, .zip or .rar including all of your files), Adobe PDF (.pdf), rich text format (.rtf), simple text document (.txt), Open Document Text (.odt), and Apple Pages (.pages). Our professional layout editors will format the entire paper according to our official guidelines. This is one of the highlights of publishing with Global Journals—authors should not be concerned about the formatting of their paper. Global Journals accepts articles and manuscripts in every major language, be it Spanish, Chinese, Japanese, Portuguese, Russian, French, German, Dutch, Italian, Greek, or any other national language, but the title, subtitle, and abstract should be in English. This will facilitate indexing and the pre-peer review process.

The following is the official style and template developed for publication of a research paper. Authors are not required to follow this style during the submission of the paper. It is just for reference purposes.



Manuscript Style Instruction (Optional)

- Microsoft Word Document Setting Instructions.
- Font type of all text should be Swis721 Lt BT.
- Page size: 8.27" x 11'", left margin: 0.65, right margin: 0.65, bottom margin: 0.75.
- Paper title should be in one column of font size 24.
- Author name in font size of 11 in one column.
- Abstract: font size 9 with the word "Abstract" in bold italics.
- Main text: font size 10 with two justified columns.
- Two columns with equal column width of 3.38 and spacing of 0.2.
- First character must be three lines drop-capped.
- The paragraph before spacing of 1 pt and after of 0 pt.
- Line spacing of 1 pt.
- Large images must be in one column.
- The names of first main headings (Heading 1) must be in Roman font, capital letters, and font size of 10.
- The names of second main headings (Heading 2) must not include numbers and must be in italics with a font size of 10.

Structure and Format of Manuscript

The recommended size of an original research paper is under 15,000 words and review papers under 7,000 words. Research articles should be less than 10,000 words. Research papers are usually longer than review papers. Review papers are reports of significant research (typically less than 7,000 words, including tables, figures, and references)

A research paper must include:

- a) A title which should be relevant to the theme of the paper.
- b) A summary, known as an abstract (less than 150 words), containing the major results and conclusions.
- c) Up to 10 keywords that precisely identify the paper's subject, purpose, and focus.
- d) An introduction, giving fundamental background objectives.
- e) Resources and techniques with sufficient complete experimental details (wherever possible by reference) to permit repetition, sources of information must be given, and numerical methods must be specified by reference.
- f) Results which should be presented concisely by well-designed tables and figures.
- g) Suitable statistical data should also be given.
- h) All data must have been gathered with attention to numerical detail in the planning stage.

Design has been recognized to be essential to experiments for a considerable time, and the editor has decided that any paper that appears not to have adequate numerical treatments of the data will be returned unrefereed.

- i) Discussion should cover implications and consequences and not just recapitulate the results; conclusions should also be summarized.
- j) There should be brief acknowledgments.
- k) There ought to be references in the conventional format. Global Journals recommends APA format.

Authors should carefully consider the preparation of papers to ensure that they communicate effectively. Papers are much more likely to be accepted if they are carefully designed and laid out, contain few or no errors, are summarizing, and follow instructions. They will also be published with much fewer delays than those that require much technical and editorial correction.

The Editorial Board reserves the right to make literary corrections and suggestions to improve brevity.



FORMAT STRUCTURE

It is necessary that authors take care in submitting a manuscript that is written in simple language and adheres to published guidelines.

All manuscripts submitted to Global Journals should include:

Title

The title page must carry an informative title that reflects the content, a running title (less than 45 characters together with spaces), names of the authors and co-authors, and the place(s) where the work was carried out.

Author details

The full postal address of any related author(s) must be specified.

Abstract

The abstract is the foundation of the research paper. It should be clear and concise and must contain the objective of the paper and inferences drawn. It is advised to not include big mathematical equations or complicated jargon.

Many researchers searching for information online will use search engines such as Google, Yahoo or others. By optimizing your paper for search engines, you will amplify the chance of someone finding it. In turn, this will make it more likely to be viewed and cited in further works. Global Journals has compiled these guidelines to facilitate you to maximize the webfriendliness of the most public part of your paper.

Keywords

A major lynchpin of research work for the writing of research papers is the keyword search, which one will employ to find both library and internet resources. Up to eleven keywords or very brief phrases have to be given to help data retrieval, mining, and indexing.

One must be persistent and creative in using keywords. An effective keyword search requires a strategy: planning of a list of possible keywords and phrases to try.

Choice of the main keywords is the first tool of writing a research paper. Research paper writing is an art. Keyword search should be as strategic as possible.

One should start brainstorming lists of potential keywords before even beginning searching. Think about the most important concepts related to research work. Ask, "What words would a source have to include to be truly valuable in a research paper?" Then consider synonyms for the important words.

It may take the discovery of only one important paper to steer in the right keyword direction because, in most databases, the keywords under which a research paper is abstracted are listed with the paper.

Numerical Methods

Numerical methods used should be transparent and, where appropriate, supported by references.

Abbreviations

Authors must list all the abbreviations used in the paper at the end of the paper or in a separate table before using them.

Formulas and equations

Authors are advised to submit any mathematical equation using either MathJax, KaTeX, or LaTeX, or in a very high-quality image.

Tables, Figures, and Figure Legends

Tables: Tables should be cautiously designed, uncrowned, and include only essential data. Each must have an Arabic number, e.g., Table 4, a self-explanatory caption, and be on a separate sheet. Authors must submit tables in an editable format and not as images. References to these tables (if any) must be mentioned accurately.



Figures

Figures are supposed to be submitted as separate files. Always include a citation in the text for each figure using Arabic numbers, e.g., Fig. 4. Artwork must be submitted online in vector electronic form or by emailing it.

Preparation of Eletronic Figures for Publication

Although low-quality images are sufficient for review purposes, print publication requires high-quality images to prevent the final product being blurred or fuzzy. Submit (possibly by e-mail) EPS (line art) or TIFF (halftone/ photographs) files only. MS PowerPoint and Word Graphics are unsuitable for printed pictures. Avoid using pixel-oriented software. Scans (TIFF only) should have a resolution of at least 350 dpi (halftone) or 700 to 1100 dpi (line drawings). Please give the data for figures in black and white or submit a Color Work Agreement form. EPS files must be saved with fonts embedded (and with a TIFF preview, if possible).

For scanned images, the scanning resolution at final image size ought to be as follows to ensure good reproduction: line art: >650 dpi; halftones (including gel photographs): >350 dpi; figures containing both halftone and line images: >650 dpi.

Color charges: Authors are advised to pay the full cost for the reproduction of their color artwork. Hence, please note that if there is color artwork in your manuscript when it is accepted for publication, we would require you to complete and return a Color Work Agreement form before your paper can be published. Also, you can email your editor to remove the color fee after acceptance of the paper.

TIPS FOR WRITING A GOOD QUALITY MANAGEMENT RESEARCH PAPER

Techniques for writing a good quality management and business research paper:

- 1. Choosing the topic: In most cases, the topic is selected by the interests of the author, but it can also be suggested by the guides. You can have several topics, and then judge which you are most comfortable with. This may be done by asking several questions of yourself, like "Will I be able to carry out a search in this area? Will I find all necessary resources to accomplish the search? Will I be able to find all information in this field area?" If the answer to this type of question is "yes," then you ought to choose that topic. In most cases, you may have to conduct surveys and visit several places. Also, you might have to do a lot of work to find all the rises and falls of the various data on that subject. Sometimes, detailed information plays a vital role, instead of short information. Evaluators are human: The first thing to remember is that evaluators are also human beings. They are not only meant for rejecting a paper. They are here to evaluate your paper. So present your best aspect.
- 2. Think like evaluators: If you are in confusion or getting demotivated because your paper may not be accepted by the evaluators, then think, and try to evaluate your paper like an evaluator. Try to understand what an evaluator wants in your research paper, and you will automatically have your answer. Make blueprints of paper: The outline is the plan or framework that will help you to arrange your thoughts. It will make your paper logical. But remember that all points of your outline must be related to the topic you have chosen.
- **3.** Ask your guides: If you are having any difficulty with your research, then do not hesitate to share your difficulty with your guide (if you have one). They will surely help you out and resolve your doubts. If you can't clarify what exactly you require for your work, then ask your supervisor to help you with an alternative. He or she might also provide you with a list of essential readings.
- **4. Use of computer is recommended:** As you are doing research in the field of management and business then this point is quite obvious. Use right software: Always use good quality software packages. If you are not capable of judging good software, then you can lose the quality of your paper unknowingly. There are various programs available to help you which you can get through the internet.
- 5. Use the internet for help: An excellent start for your paper is using Google. It is a wondrous search engine, where you can have your doubts resolved. You may also read some answers for the frequent question of how to write your research paper or find a model research paper. You can download books from the internet. If you have all the required books, place importance on reading, selecting, and analyzing the specified information. Then sketch out your research paper. Use big pictures: You may use encyclopedias like Wikipedia to get pictures with the best resolution. At Global Journals, you should strictly follow here.



- 6. Bookmarks are useful: When you read any book or magazine, you generally use bookmarks, right? It is a good habit which helps to not lose your continuity. You should always use bookmarks while searching on the internet also, which will make your search easier.
- 7. Revise what you wrote: When you write anything, always read it, summarize it, and then finalize it.
- 8. Make every effort: Make every effort to mention what you are going to write in your paper. That means always have a good start. Try to mention everything in the introduction—what is the need for a particular research paper. Polish your work with good writing skills and always give an evaluator what he wants. Make backups: When you are going to do any important thing like making a research paper, you should always have backup copies of it either on your computer or on paper. This protects you from losing any portion of your important data.
- **9. Produce good diagrams of your own:** Always try to include good charts or diagrams in your paper to improve quality. Using several unnecessary diagrams will degrade the quality of your paper by creating a hodgepodge. So always try to include diagrams which were made by you to improve the readability of your paper. Use of direct quotes: When you do research relevant to literature, history, or current affairs, then use of quotes becomes essential, but if the study is relevant to science, use of quotes is not preferable.
- 10. Use proper verb tense: Use proper verb tenses in your paper. Use past tense to present those events that have happened. Use present tense to indicate events that are going on. Use future tense to indicate events that will happen in the future. Use of wrong tenses will confuse the evaluator. Avoid sentences that are incomplete.
- 11. Pick a good study spot: Always try to pick a spot for your research which is quiet. Not every spot is good for studying.
- 12. Know what you know: Always try to know what you know by making objectives, otherwise you will be confused and unable to achieve your target.
- 13. Use good grammar: Always use good grammar and words that will have a positive impact on the evaluator; use of good vocabulary does not mean using tough words which the evaluator has to find in a dictionary. Do not fragment sentences. Eliminate one-word sentences. Do not ever use a big word when a smaller one would suffice. Verbs have to be in agreement with their subjects. In a research paper, do not start sentences with conjunctions or finish them with prepositions. When writing formally, it is advisable to never split an infinitive because someone will (wrongly) complain. Avoid clichés like a disease. Always shun irritating alliteration. Use language which is simple and straightforward. Put together a neat summary.
- **14.** Arrangement of information: Each section of the main body should start with an opening sentence, and there should be a changeover at the end of the section. Give only valid and powerful arguments for your topic. You may also maintain your arguments with records.
- **15. Never start at the last minute:** Always allow enough time for research work. Leaving everything to the last minute will degrade your paper and spoil your work.
- **16. Multitasking in research is not good:** Doing several things at the same time is a bad habit in the case of research activity. Research is an area where everything has a particular time slot. Divide your research work into parts, and do a particular part in a particular time slot.
- 17. Never copy others' work: Never copy others' work and give it your name because if the evaluator has seen it anywhere, you will be in trouble. Take proper rest and food: No matter how many hours you spend on your research activity, if you are not taking care of your health, then all your efforts will have been in vain. For quality research, take proper rest and food.
- 18. Go to seminars: Attend seminars if the topic is relevant to your research area. Utilize all your resources.
- 19. Refresh your mind after intervals: Try to give your mind a rest by listening to soft music or sleeping in intervals. This will also improve your memory. Acquire colleagues: Always try to acquire colleagues. No matter how sharp you are, if you acquire colleagues, they can give you ideas which will be helpful to your research.
- **20.** Think technically: Always think technically. If anything happens, search for its reasons, benefits, and demerits. Think and then print: When you go to print your paper, check that tables are not split, headings are not detached from their descriptions, and page sequence is maintained.

- 21. Adding unnecessary information: Do not add unnecessary information like "I have used MS Excel to draw graphs." Irrelevant and inappropriate material is superfluous. Foreign terminology and phrases are not apropos. One should never take a broad view. Analogy is like feathers on a snake. Use words properly, regardless of how others use them. Remove quotations. Puns are for kids, not grunt readers. Never oversimplify: When adding material to your research paper, never go for oversimplification; this will definitely irritate the evaluator. Be specific. Never use rhythmic redundancies. Contractions shouldn't be used in a research paper. Comparisons are as terrible as clichés. Give up ampersands, abbreviations, and so on. Remove commas that are not necessary. Parenthetical words should be between brackets or commas. Understatement is always the best way to put forward earth-shaking thoughts. Give a detailed literary review.
- **22.** Report concluded results: Use concluded results. From raw data, filter the results, and then conclude your studies based on measurements and observations taken. An appropriate number of decimal places should be used. Parenthetical remarks are prohibited here. Proofread carefully at the final stage. At the end, give an outline to your arguments. Spot perspectives of further study of the subject. Justify your conclusion at the bottom sufficiently, which will probably include examples.
- **23. Upon conclusion:** Once you have concluded your research, the next most important step is to present your findings. Presentation is extremely important as it is the definite medium though which your research is going to be in print for the rest of the crowd. Care should be taken to categorize your thoughts well and present them in a logical and neat manner. A good quality research paper format is essential because it serves to highlight your research paper and bring to light all necessary aspects of your research.

INFORMAL GUIDELINES OF RESEARCH PAPER WRITING

Key points to remember:

- Submit all work in its final form.
- Write your paper in the form which is presented in the guidelines using the template.
- Please note the criteria peer reviewers will use for grading the final paper.

Final points:

One purpose of organizing a research paper is to let people interpret your efforts selectively. The journal requires the following sections, submitted in the order listed, with each section starting on a new page:

The introduction: This will be compiled from reference matter and reflect the design processes or outline of basis that directed you to make a study. As you carry out the process of study, the method and process section will be constructed like that. The results segment will show related statistics in nearly sequential order and direct reviewers to similar intellectual paths throughout the data that you gathered to carry out your study.

The discussion section:

This will provide understanding of the data and projections as to the implications of the results. The use of good quality references throughout the paper will give the effort trustworthiness by representing an alertness to prior workings.

Writing a research paper is not an easy job, no matter how trouble-free the actual research or concept. Practice, excellent preparation, and controlled record-keeping are the only means to make straightforward progression.

General style:

Specific editorial column necessities for compliance of a manuscript will always take over from directions in these general guidelines.

To make a paper clear: Adhere to recommended page limits.

Mistakes to avoid:

- Insertion of a title at the foot of a page with subsequent text on the next page.
- Separating a table, chart, or figure—confine each to a single page.
- Submitting a manuscript with pages out of sequence.
- In every section of your document, use standard writing style, including articles ("a" and "the").
- Keep paying attention to the topic of the paper.



- Use paragraphs to split each significant point (excluding the abstract).
- Align the primary line of each section.
- Present your points in sound order.
- Use present tense to report well-accepted matters.
- Use past tense to describe specific results.
- Do not use familiar wording; don't address the reviewer directly. Don't use slang or superlatives.
- Avoid use of extra pictures—include only those figures essential to presenting results.

Title page:

Choose a revealing title. It should be short and include the name(s) and address(es) of all authors. It should not have acronyms or abbreviations or exceed two printed lines.

Abstract: This summary should be two hundred words or less. It should clearly and briefly explain the key findings reported in the manuscript and must have precise statistics. It should not have acronyms or abbreviations. It should be logical in itself. Do not cite references at this point.

An abstract is a brief, distinct paragraph summary of finished work or work in development. In a minute or less, a reviewer can be taught the foundation behind the study, common approaches to the problem, relevant results, and significant conclusions or new questions.

Write your summary when your paper is completed because how can you write the summary of anything which is not yet written? Wealth of terminology is very essential in abstract. Use comprehensive sentences, and do not sacrifice readability for brevity; you can maintain it succinctly by phrasing sentences so that they provide more than a lone rationale. The author can at this moment go straight to shortening the outcome. Sum up the study with the subsequent elements in any summary. Try to limit the initial two items to no more than one line each.

Reason for writing the article—theory, overall issue, purpose.

- Fundamental goal.
- To-the-point depiction of the research.
- Consequences, including definite statistics—if the consequences are quantitative in nature, account for this; results of any numerical analysis should be reported. Significant conclusions or questions that emerge from the research.

Approach:

- Single section and succinct.
- o An outline of the job done is always written in past tense.
- o Concentrate on shortening results—limit background information to a verdict or two.
- Exact spelling, clarity of sentences and phrases, and appropriate reporting of quantities (proper units, important statistics) are just as significant in an abstract as they are anywhere else.

Introduction:

The introduction should "introduce" the manuscript. The reviewer should be presented with sufficient background information to be capable of comprehending and calculating the purpose of your study without having to refer to other works. The basis for the study should be offered. Give the most important references, but avoid making a comprehensive appraisal of the topic. Describe the problem visibly. If the problem is not acknowledged in a logical, reasonable way, the reviewer will give no attention to your results. Speak in common terms about techniques used to explain the problem, if needed, but do not present any particulars about the protocols here.

The following approach can create a valuable beginning:

- o Explain the value (significance) of the study.
- Defend the model—why did you employ this particular system or method? What is its compensation? Remark upon its appropriateness from an abstract point of view as well as pointing out sensible reasons for using it.
- Present a justification. State your particular theory(-ies) or aim(s), and describe the logic that led you to choose them.
- o Briefly explain the study's tentative purpose and how it meets the declared objectives.



Approach:

Use past tense except for when referring to recognized facts. After all, the manuscript will be submitted after the entire job is done. Sort out your thoughts; manufacture one key point for every section. If you make the four points listed above, you will need at least four paragraphs. Present surrounding information only when it is necessary to support a situation. The reviewer does not desire to read everything you know about a topic. Shape the theory specifically—do not take a broad view.

As always, give awareness to spelling, simplicity, and correctness of sentences and phrases.

Procedures (methods and materials):

This part is supposed to be the easiest to carve if you have good skills. A soundly written procedures segment allows a capable scientist to replicate your results. Present precise information about your supplies. The suppliers and clarity of reagents can be helpful bits of information. Present methods in sequential order, but linked methodologies can be grouped as a segment. Be concise when relating the protocols. Attempt to give the least amount of information that would permit another capable scientist to replicate your outcome, but be cautious that vital information is integrated. The use of subheadings is suggested and ought to be synchronized with the results section.

When a technique is used that has been well-described in another section, mention the specific item describing the way, but draw the basic principle while stating the situation. The purpose is to show all particular resources and broad procedures so that another person may use some or all of the methods in one more study or referee the scientific value of your work. It is not to be a step-by-step report of the whole thing you did, nor is a methods section a set of orders.

Materials:

Materials may be reported in part of a section or else they may be recognized along with your measures.

Methods:

- Report the method and not the particulars of each process that engaged the same methodology.
- Describe the method entirely.
- o To be succinct, present methods under headings dedicated to specific dealings or groups of measures.
- o Simplify—detail how procedures were completed, not how they were performed on a particular day.
- o If well-known procedures were used, account for the procedure by name, possibly with a reference, and that's all.

Approach:

It is embarrassing to use vigorous voice when documenting methods without using first person, which would focus the reviewer's interest on the researcher rather than the job. As a result, when writing up the methods, most authors use third person passive voice.

Use standard style in this and every other part of the paper—avoid familiar lists, and use full sentences.

What to keep away from:

- o Resources and methods are not a set of information.
- o Skip all descriptive information and surroundings—save it for the argument.
- o Leave out information that is immaterial to a third party.

Results:

The principle of a results segment is to present and demonstrate your conclusion. Create this part as entirely objective details of the outcome, and save all understanding for the discussion.

The page length of this segment is set by the sum and types of data to be reported. Use statistics and tables, if suitable, to present consequences most efficiently.

You must clearly differentiate material which would usually be incorporated in a study editorial from any unprocessed data or additional appendix matter that would not be available. In fact, such matters should not be submitted at all except if requested by the instructor.



Content:

- o Sum up your conclusions in text and demonstrate them, if suitable, with figures and tables.
- o In the manuscript, explain each of your consequences, and point the reader to remarks that are most appropriate.
- o Present a background, such as by describing the question that was addressed by creation of an exacting study.
- Explain results of control experiments and give remarks that are not accessible in a prescribed figure or table, if appropriate.
- Examine your data, then prepare the analyzed (transformed) data in the form of a figure (graph), table, or manuscript.

What to stay away from:

- Do not discuss or infer your outcome, report surrounding information, or try to explain anything.
- Do not include raw data or intermediate calculations in a research manuscript.
- o Do not present similar data more than once.
- o A manuscript should complement any figures or tables, not duplicate information.
- Never confuse figures with tables—there is a difference.

Approach:

As always, use past tense when you submit your results, and put the whole thing in a reasonable order.

Put figures and tables, appropriately numbered, in order at the end of the report.

If you desire, you may place your figures and tables properly within the text of your results section.

Figures and tables:

If you put figures and tables at the end of some details, make certain that they are visibly distinguished from any attached appendix materials, such as raw facts. Whatever the position, each table must be titled, numbered one after the other, and include a heading. All figures and tables must be divided from the text.

Discussion:

The discussion is expected to be the trickiest segment to write. A lot of papers submitted to the journal are discarded based on problems with the discussion. There is no rule for how long an argument should be.

Position your understanding of the outcome visibly to lead the reviewer through your conclusions, and then finish the paper with a summing up of the implications of the study. The purpose here is to offer an understanding of your results and support all of your conclusions, using facts from your research and generally accepted information, if suitable. The implication of results should be fully described.

Infer your data in the conversation in suitable depth. This means that when you clarify an observable fact, you must explain mechanisms that may account for the observation. If your results vary from your prospect, make clear why that may have happened. If your results agree, then explain the theory that the proof supported. It is never suitable to just state that the data approved the prospect, and let it drop at that. Make a decision as to whether each premise is supported or discarded or if you cannot make a conclusion with assurance. Do not just dismiss a study or part of a study as "uncertain."

Research papers are not acknowledged if the work is imperfect. Draw what conclusions you can based upon the results that you have, and take care of the study as a finished work.

- o You may propose future guidelines, such as how an experiment might be personalized to accomplish a new idea.
- o Give details of all of your remarks as much as possible, focusing on mechanisms.
- o Make a decision as to whether the tentative design sufficiently addressed the theory and whether or not it was correctly restricted. Try to present substitute explanations if they are sensible alternatives.
- One piece of research will not counter an overall question, so maintain the large picture in mind. Where do you go next? The best studies unlock new avenues of study. What questions remain?
- Recommendations for detailed papers will offer supplementary suggestions.



Approach:

When you refer to information, differentiate data generated by your own studies from other available information. Present work done by specific persons (including you) in past tense.

Describe generally acknowledged facts and main beliefs in present tense.

THE ADMINISTRATION RULES

Administration Rules to Be Strictly Followed before Submitting Your Research Paper to Global Journals Inc.

Please read the following rules and regulations carefully before submitting your research paper to Global Journals Inc. to avoid rejection.

Segment draft and final research paper: You have to strictly follow the template of a research paper, failing which your paper may get rejected. You are expected to write each part of the paper wholly on your own. The peer reviewers need to identify your own perspective of the concepts in your own terms. Please do not extract straight from any other source, and do not rephrase someone else's analysis. Do not allow anyone else to proofread your manuscript.

Written material: You may discuss this with your guides and key sources. Do not copy anyone else's paper, even if this is only imitation, otherwise it will be rejected on the grounds of plagiarism, which is illegal. Various methods to avoid plagiarism are strictly applied by us to every paper, and, if found guilty, you may be blacklisted, which could affect your career adversely. To guard yourself and others from possible illegal use, please do not permit anyone to use or even read your paper and file.



CRITERION FOR GRADING A RESEARCH PAPER (COMPILATION) BY GLOBAL JOURNALS

Please note that following table is only a Grading of "Paper Compilation" and not on "Performed/Stated Research" whose grading solely depends on Individual Assigned Peer Reviewer and Editorial Board Member. These can be available only on request and after decision of Paper. This report will be the property of Global Journals.

Topics	Grades				
	А-В	C-D	E-F		
Abstract	Clear and concise with appropriate content, Correct format. 200 words or below	Unclear summary and no specific data, Incorrect form Above 200 words	No specific data with ambiguous information Above 250 words		
Introduction	Containing all background details with clear goal and appropriate details, flow specification, no grammar and spelling mistake, well organized sentence and paragraph, reference cited	Unclear and confusing data, appropriate format, grammar and spelling errors with unorganized matter	Out of place depth and content, hazy format		
Methods and Procedures	Clear and to the point with well arranged paragraph, precision and accuracy of facts and figures, well organized subheads	Difficult to comprehend with embarrassed text, too much explanation but completed	Incorrect and unorganized structure with hazy meaning		
Result	Well organized, Clear and specific, Correct units with precision, correct data, well structuring of paragraph, no grammar and spelling mistake	Complete and embarrassed text, difficult to comprehend	Irregular format with wrong facts and figures		
Discussion	Well organized, meaningful specification, sound conclusion, logical and concise explanation, highly structured paragraph reference cited	Wordy, unclear conclusion, spurious	Conclusion is not cited, unorganized, difficult to comprehend		
References	Complete and correct format, well organized	Beside the point, Incomplete	Wrong format and structuring		



INDEX

A Adherence · 1, 7 Ascertained · 29 Assertion · 1 Attributable · 3 Ε Emissions. · 18 Eradicate · 26 G Greedy · 5 Intrinsic \cdot 2, 5 N Nexus · 2 P Pervading · 7 Privilege · 3 R Revealed \cdot 1, 6, 7, 17, 18, 19, 20, 33 Rigorous \cdot 19 W

Worrisome · 71



Global Journal of Management and Business Research

Visit us on the Web at www.GlobalJournals.org | www.JournalofBusiness.Org or email us at helpdesk@globaljournals.org



E28227P NZZI

© Global Journals