LEAN ACCOUNTING AWARENESS: A QUALITATIVE STUDY ON LEAN ACCOUNTING PERCEPTION

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ABSTRACT

With the growing market trends, organizations always try to use their resources more efficiently through adoption of better concepts and practices for the improvement of their operational and financial efficiency. This study aims to create better understanding of lean accounting and how industries of Pakistan perceive lean accounting implementation. It also explores the barriers that hinder adoption of lean accounting approach and mitigation strategies. Industries can overcome these barriers to create ease in lean accounting adoption. A qualitative approach was adopted in this research. Semi-structured interviews were conducted to collect data from managers of Textile industries to investigate the barriers and mitigation strategies. The appropriate tests were applied via NVivo 12 to summarize interviews. This study is the first in Pakistan founding significant interest of industries in lean accounting, identifying barriers and mitigation strategies to create ease in adopting lean accounting for the industrial sector of Pakistan and suggesting new directions to the accounting systems.

Key words: Lean Thinking, Lean Accounting, NVivo 12, Barriers, Mitigation

1. INTRODUCTION

Lean thinking can be defined as "a method to create the most value for customers in a minimum cost." It can be achieved by time, energy, effort, and resource maximization. Through the lean approach, we can understand (1) Gemba (what is going on at the place where value is created) (2) improve the processes (3) empower and develop people through coaching and problem solving, and (4) develop an effective management system and leader's development. Lean thinking and practice allow organizations to become sustainable through becoming competitive and innovative. Previously, lean principles were used in Japan's Toyota factories. However, no matter what the organization's size or what sort of work organizations are doing, lean has become a superior alternative and approach to do work. Problems are opportunities not the mistakes to be resolved quickly or to be swept under the rug.

With changing trends this approach can be applied to every department of the organization. Accounting department also plays a significant part in a business. Procedures of accounting differ from the size of the organization. Some have fewer accounting procedures due to small business size, but some organization have larger and complex accounting procedures due to their larger business size. However, accounting have a significant role in every business. When it comes to accounting procedures here comes the concept of traditional accounting and lean accounting. Traditional accounting can be defined as "the set of principles through which financial affairs in a business are reported". Traditional accounting is a process in which overhead costs are allocated to specific products. The principles of traditional accounting develop over time according to the need of business and government regulations and sometimes are very complex to handle due to its non-usefulness. As the data is not useful, it become unnecessary to run a modern business specially organizations

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implementing lean principles. On the other hand, Lean accounting can be defined as "the natural corollary to lean management. It attempts to create maximum business efficiency by implementing just in time inventory process and careful consideration of delivery methods and Time-efficient manufacturing". Lean accounting allows organizations to report financial data according to value streams rather than cost per unit reporting. Traditional accounting does not help lean organizations accurately report the effectiveness and efficiency of lean management techniques. Simultaneously, lean accounting allows companies or organizations to see the report and see all the lean management method's benefits.

Nowadays, organizations are being serious about implementing lean thinking but eventually bumps up against their accounting systems. Soon it is realized that traditional accounting cannot handle lean management principle's outputs. There are some drawbacks of traditional accounting in lean implementation organizations, which are 1) complexity 2) size 3) wasteful processes requiring vast amounts of non-value work 4) Large batch production is motivated by traditional accounting because it provides measurements and reports like labor efficiency and overhead absorption 5) It is difficult to identify the financial impact of lean improvements through traditional accounting. Lean accounting provides understandable, timely, and accurate information to motivate the lean transformation throughout the organization. It motivates organizations in decision making leading to growth, cash flow, profitability, and customer value. While maintaining financial control, waste can be eliminated from accounting processes by using lean tools. Lean accounting not only comply with accounting rules and regulation, but it also supports lean culture by empowering continuous improvement at every level of the organization, providing actionable and relevant information and motivating investment in people.

Organizations should involve accounting and finance departments for cost-benefit analysis before and after the implementation of lean practices to measure performance improvements (Kumar, 2010; Mohsin et al., 2019). Previous studies suggest that traditional accounting cannot handle the financial measures of an organization in which lean is implemented. Traditional accounting methods can cause misleading understanding of cost regarding a product and can lead to incorrect decisions on critical issues in an organization e.g. profitability of sales order, whether to buy to make product component and rationalization of customers or product (B. H. Maskell et al., 2017; Naseem et al., 2018).

As lean thinking can be applied to every aspect or department of an organization, adopting and implementing lean accounting methods can resolve accounting problems conveniently (Emiliani, Stec, Grasso, & Stodder, 2007). There are five major objectives of lean accounting: 1) Elimination of waste 2) Elimination of error and defects 3) Freeing up capacity 4) Simplification of processes to help gain better understanding, and 5) Speeding up process. These five significant goals can be achieved by replacing traditional accounting practices with lean accounting practices (Enoch, 2013). Thus, lean operations implementation can eliminate the need for many traditional accounting processes (B. H. Maskell et al., 2017; Mohsin et al., 2020b; Naseem et al., 2019; Naseem et al., 2020a). In today's era, global market volatility is increasing day by day. Firms' 1) growth is necessary according to the volatile situations, 2) are dependent on their ability to sense frequent changes in the market and act accordingly to survive and grow, 3) are focusing on the growing need for lean implementation to increase overall operational and financial performance. This study examines the impact of lean accounting perception in the textile industries of Pakistan. In the past 2 to 3 years' industries are implementing lean tools for enhanced productivity, ultimately causing cost reduction. According to the initial survey conducted by us, organizations are implementing lean tools for enhanced productivity, but they are not adopting lean accounting. There are many international studies on lean accounting (Amusawi, Almagtome, & Shaker, 2019; Elsukova, 2015; Enoch, 2013; Kennedy & Widener, 2008; B. H. Maskell & Kennedy, 2007; Soliman, 2020; Teixeira, dos Santos, Akkari, & Munhoz, 2019; Mohsin et al., 2020a; Naseem et al., 2021, Salamat et al., 2020, Majeed et al., 2020; Naseem et al., 2020b), but there is no study

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conducted in Pakistan on lean accounting. In this paper we aim to find the reasons about why people are not ready to adopt lean accounting.

2. RESEARCH METHODOLOGY

2.1. Research Design

This research used a qualitative approach, and primary data was collected from the Textile industries of Pakistan. We analyzed and compared the organizations that are using and not using lean practices. In order to have balance, we have lean industries as well as those that do not use them. We preferred to use the purposive sampling technique for data collection (Groenewald, 2004). Groenewald (2004) argued that purposive sampling is the most critical type of non-probability sampling. Face-to-face semi-structured and pilot study interviews were adopted from previous studies for data collection purposes. W Creswell, (2016) suggests 3 to 10 informants for interviews while Morse, (1995) suggest 6 informants. A study by Boddy (2016) suggested a sample size of 12 informants is appropriate for any study. So. Twelve for lean companies and 12 for non-lean companies of the textile industry were selected for this study

3. DATA ANALYSIS AND RESULTS

3.1. Data Characteristics

Semi structures interview questions were asked to the respondents. Later the questions were transcribed in NVivo, which are as follows: 1) Please indicate what type of cost accounting system is generally used at your company as "Cost Accounting System" 2) Indicate below the level of lean manufacturing implementation on the production floor as "Level of lean accounting implementation" 3) Indicate below how satisfied you are with your management accounting system as "Satisfaction regarding current management accounting system" 4) Please indicate have you ever heard about these tools. If yes, then how many? as "Tool's awareness"

5) If you currently do not use value stream costing, has your company discussed using value stream costing? as "Have you considered using Value stream costing?" 6) Do you think this idea is beneficial and can be implemented? If Yes, then why and have you implemented this before? If no, then what is the reason? as "Beneficial and implementable" 7) Would you like to implement this concept in your industry/organization? as "Implementation perception" 8) What are the barriers which you think exists for this idea implementation? As "Barriers" 9) How can we mitigate these barriers to implement this idea? As "Barrier's mitigation."

3.2. Cluster Analysis

After the data transcription, cluster analysis was applied. Initially, nine main clusters were identified by the software. Which are 1) Cost accounting system 2) Level of lean accounting implementation 3) Satisfaction regarding current management accounting system 4) Tool's awareness 5) Have you considered using Value stream costing? 6) Beneficial and implementable 7) Implementation perception 8) Barriers, and 9) Barrier's mitigation. The initial analysis is shown in figure 1.

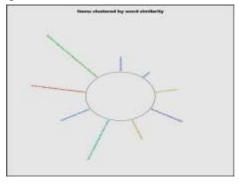


Figure 1 Cluster Analysis

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3.3. Data Coding

Interviewer's views are based on G-D Logic with Gioia Coding, Categories and Aggregate Dimensions (Managers Perspective). Data was first transcribed into NVivo 12, and then interviews were coded according to the 9 identified clusters which are 1) Cost Accounting System, 2) Level of Lean Manufacturing Implementation, 3) Satisfaction regarding current management accounting system, 4) Tools Awareness, 5) Have you considered using Value stream coating, 6) Beneficial and implementable, 7) Implementation perception, 8) Barriers, and 9) Mitigation Strategies. The coding for the above-mentioned clusters is as follows:

 Table 1 Cost Accounting System

First Order Codes	Second Order Categories	Aggregate Dimensions
Process Costing is being used in	Process Costing is Widely used	Lack of awareness and
most of the textile industries.	Lack of Understanding regarding	Understanding
This method is widely and	new methods	
commonly used.	Hidden Drawbacks	
New accounting methods are not		
being used due to the lack of		
understanding		
Sometimes the hidden drawbacks		
also put a full stop on new		
methods adoption		

 Table 2 Level of Lean Manufacturing Implementation

First Order Codes	Second Order Categories	Aggregate Dimensions
Lean manufacturing	Lack of Guidance	Lack of Motivation, awareness,
implementation is considerable in	Considerable	and guidance
our organization because every	Lack of Resources	
organization is struggling to	Lack of Motivation	
become efficient and better	Increase in Training Cost	
Lean is a good tool to implement		
for efficiency and productivity		
We do not have any proper		
guidance regarding lean		
implementation		
Lean implementation is difficult		
in our organization due to		
resource constraints		
Things need to restart when		
adopting some new technology		
Training costs increases		
Change requires a lot of effort,		
Time, and resources		

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Table 3 Satisfaction regarding current management accounting system

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First Order Codes	Second Order Categories	Aggregate Dimensions
Current accounting system is	Considerable System	Lack of Awareness
quite considerable	Common	
It is most used	No Awareness	
we have not thought to use any		
different method due to many		
resource constraints		

Table 4 Tools Awareness

First Order Codes	Second Order Categories	Aggregate Dimensions
Box scores is the method that is	Box Score is common Method	Lack of Lean Accounting tool's
most known among industrialists	Widely discusses among	Awareness
Other methods are unknown	industrialists	
Box scores is widely discussed	Other tools are unknown	
among industrialists to compare		
progress and goals		

Table 5 Have you considered using value stream costing?

First Order Codes	Second Order Categories	Aggregate Dimensions
It is an exciting approach	Interesting approach	Value Stream Costing is
We were not considering before	Considerable	Considerable
We will discuss about adopting it		
This workshop was interesting		
detailed enlightenment of this		
approach		

Table 6 Beneficial and implementable

First Order Codes	Second Order Categories	Aggregate Dimensions
It is beneficial	Beneficial	Beneficial and Implementable
It should be implemented for its	Feasible Highlighted benefits	
highlighted benefits		
The idea is feasible		

Table 7 Implementation perception

First Order Codes	Second Order Categories	Aggregate Dimensions
Would like to implement it	Interested in implementation	Implementable but presence of
It is interesting	Interesting	resource constraints
Implementable but presence	Resource Constraints	
resource constraints		

Table 8 Barriers

	Table & Barriers	
First Order Codes	Second Order Categories	Aggregate Dimensions
Workers are not familiar with	Unfamiliarity with Technology	Technology Gap
the technology	Resistance to learn new	
Fear of unknown	technology	
Resistance to learn new		
technology		
Discussion about new	Fear of losing job	Fear of Unemployment
technology implementation	New Technology	
creates worry among the	Implementation brings	
workers regarding their job	unemployment	
position.		
In most of the cases technology		
implementation brings		
unemployment.		
Many workers do not accept	Fear of Losing Power	Status Quo Among Employees
new technology due to their fear		
of them losing their power	demotion	
Sometimes new technology		
implementation and trainings		
causes management and		
supervision change causing		
demotion from current post.		
Employees fear if they can learn	Fear of new technology	Fear of Unknown
this technology or not.	Fear of being able to learn new	
••	technology	
technology	lectinology	
Is it the end of their job?		
When new technologies are	Change in reporting Structure	Reporting Structure Shift
implemented, reporting	due to technological change	Reporting Structure Shift
structure can be changed.	Uncertainty about supervisor	
Sometimes the changed	personality	
supervisor is not that friendly	Uncertainty causes	
and good to employees	demotivation and resistance	
It can result demotivation and	demotivation and resistance	
resistance	Lock of Williams and to loom	Chill Com
New technology requires new skills	<u> </u>	Skill Gap
	new technology	
Some employees do not show		
their willingness to learn new		
skills		
Employees find it difficult to		
learn new technology resulting		
demotivation and resistance	A company in C	Laste of Dura. L. C.
The transfer of accurate	Accurate information transfer is	_
information will keep the	1	Transfer
operations on track	Misinterpretation results	
When the new technology is	operational disturbance	
implemented in organization the		
new knowledge can cause		
misinterpretation resulting		
operational disturbance		

confusion among employees due to lack of awareness. Employees fear that they will be replaced by machine It can result their job loss. This fear does not let employees to accept new technology quickly. This happens mostly with the elderly people Supervision and reporting hierarchy's change can cause breakage in social or workplace breakage in social or workplace bonding due to transfer in another unit/department Its results demotivation and resistance. Sometimes implementing new technology cause out of the scope exposure. While solving problem with new technological implementation can result exposure of many hidden problems Sometimes employees are well adjusted with working under specific supervisor. When the manager or supervisor gets changed, they become fearful due to manager's attitude as the manager was previously not good with them Majority of the times employees preceive that technology increases accountability factor which makes them more demotivated. Ermployees perceive that the technological change can cause bractice as an unfair practice Fear of Man to Machine Proportion Fear of Man to Machine Proporti	NY 1 1 1		
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change in their hold which		practice as an unian practice	
makes them believe the	C		
technological practice as the			
unfair practice. When the box of the new Unknown benefits results Welve of Technology is not	_	Unimovim homofita as14-	Value of Tachaslass is as
When the benefits of the new Unknown benefits results Value of Technology is not			
technology are unknown, resistance for new technology known		resistance for new technology	KHOWH
resistance is natural.		D (* 1 . XX 11 .	TY , A 1 , 1 1
			How to Apply technology is not
technology is not known, learn new technology known			known
employees fear of being Fear of being replaced		rear of being replaced	
replaced because of their	replaced because of their		

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perception about not being able		
to learn new technology.		
When the use of new	Use of Technology is not	How to Use technology is not
technology is not known,	known	known
employees fear of being	Fear of being replaced	
replaced because of their		
perception about not being able		
to learn new technology		
Managers do not agree to	Managers think learning new	Lack of Agreement about
implement new technology due		Technology
to the hustle and effort for		
learning new technology.		
Employees perceive their needs	Adjustment with new	Technology involves too much
a lot of hustle and effort to	· ·	Paperwork
adjust with new technology.	leemology is difficult	r uper work
	Adjustment with new	Technology involves too much
work creation via technology	technology is difficult	work
Employees perceive their needs	lectinology is difficult	WOLK
a lot of hustle and effort to		
adjust with new technology.	Employees finds loomboles for	Misusa of Tashnalasy
Sometimes employees find	1	Misuse of Technology
some loopholes in new	New Technology to avoid strict	
	accountability	
from accountability.	m 1 1 · · ·	Tr. 1 C Cm. 1 1
Technology costs too much		High Cost of Technology
It causes resistance between top	_	
management to implement it.	while focusing on short term	
In this case, the managers focus	benefits	
short-term benefits resulting		
long term benefits ignorance.		
As technology increases	Personal freedom and	Technology is a Threat to
accountability, employees	6 · · · · · · · · · · · · · · · · · · ·	Personal Information
perceive it as a threat to	with increased technology	
personal freedom.	implementation	
•	Not ready for change	Technology is different from
		established processes and
not ready to accept change.	Hustle in learning new things	procedures
<u> </u>	Persistency in already	
	established processes	
which cause resistance		
Persistency on following		
established work processes and		
procedures		
	Not following the accurate	Technology will have a negative
change can negatively impact	procedures of new technology	impact on Teamwork and
teamwork and cooperation	causes negative impact	Cooperation
because of the implication of	Colleagues go on top position	
technology in between	can cause rift between teams	
procedures.		
Sometimes managers or	Fear of past bad experience	Bad Experiences with
employees are not willing to		Technology in the Past
accept new technology due to		
their experience in the past.		

It May be a hazard due to the		
technological mishandling		
resulting in permanent fear for		
new technology		
Top or middle managers do not	Ignorance of Top management	Lack of Leadership Support for
bother to implement change if	for innovation	Innovation
suggested by lower employees,		
resulting in a lack of support		
and ignorance.		
Employees perceive that with	Extra effort is needed with new	Comfort Level
the adoption of new technology,		
	Managers do not want to do	
effort and leave their comfort	such effort	
zone which some employees are		
not willing to do.		
Ü	New Technology can change	Time to make changes and
change because they must	hold of power	Adjust
adjust with new technology.	Adjustment of employees with	
The new technology can change		
their hold and power in	acceptance of employees with	
organization	new technology	
Sometimes the understanding	Implementing ability if the	Understanding of and Ability to
	employees are not good	Implement
employees are not good	employees are not good	
Some organizations do not	Budget priorities are not	Budgetary Priorities
prefer technological change in	innovation friendly	Budgetary Triorities
their budget priorities		
Lack of proper organization	Lack of focus towards new	Difficulty/ Availability/Time for
training and resource	technology	Training
investment creates fear of	Fear of employees about	
unknown	position maintenance	
Lack of training creates fear of		
errors		
Fear of employees for not being		
able to maintain their position		
because they have not learnt the		
new technology that well.		
Fear of position change	Employees fear change	Resistance to Learning New
Fear of Power change	Perception causes barrier	Technology
Social groups disturbance	e erecption causes barrier	Comology
Lack of Understanding with		
new manager in case of		
reporting structure change		
Not being able to able to learn		
new things etc.		
-	Accountability areates work	Work Stress/Overload
Technology creates a lot of	Accountability creates work	WOLK BUESS/OVEHORD
accountability Workers must work completely	stress Work should be completed	
	Work should be completed	
according to the work protocol. These results work stress and	strictly according to deadline	
perception of employees about		
overload on workspace		

_	ar mar)	
Management perceives that new	Change requires a lot of money	Cost
technology requires a lot of	Resources and budget do not let	
costs such as	organizations implement change	
Cost on machinery	organizations improment enange	
Cost on trainings		
Cost on equipment		
Cost on resources etc.		
There is only focus on		
comparison of short-term benefits and costs		
Change requires long Time and		
benefits become visible in long		
term	Y 1 C 1 1	D. C. CXI.1
A new change and technology	\mathcal{E}	Proof of Value
are not accepted that quickly by		
people, management, managers,		
and employees in organizations	that quickly	
because they do not find the		
new change that valuable		
Managers or top management		Reliability – will it continue to
show a lot of concern about the		provide value
new change's reliability.	When is there talk about change	
About the new change's long-	people always think until when?	
term benefits.		
Bad experience or uncertainty		
about new technology can		
create reliability like barriers		
Sometimes organizations do	Lack of clear view about future	Lack of Clear Scope
want to adopt new change but	growth	
do not know what to do next.	Organizations gets confused	
How they will use this change	how they will continue and	
in future and benefit from it in	maintain growth with this	
the long term	change	
With new change	Technology sometimes takes a	Sceptics in the Ranks
implementation sometimes,	person to the top and sometimes	
your colleague becomes your	takes away the current position	
boss or supervisor causing	Jealousy Among Employees	
jealousy resulting demotivation		
and resistance		
When people use their	Lack of Capability of	Use of Relationships
relationships to achieve a	employees	_
specific post in an organization,	People Use relations to get job	
there exist an element called	or employment	
"lack of capability" which cause		
inability to cope with market		
trends and volatility.		
When the knowledge of lean is	Lean value is not understood	Insufficient Knowledge of Lean
not sufficient among employees		
and officials, they cannot	People lacks the knowledge of	
understand its value,	lean	
importance, and benefits		

 Table 9 Barriers Mitigation

First Order Codes Second Order Categories Aggregate Dimensions			
	Second Order Categories Benefits of technology is being	Aggregate Dimensions Communicate with Employees	
employees about the benefits of	communicates	Communicate with Employees	
new technology	Counseling of Employees		
Counsels them that they do not	Employees do not need to worry		
need to worry about their job	about their job		
insecurity.	loodt then job		
Proper and detailed trainings are	Proper trainings should be	Proper Trainings Conduction	
needed to train the employees	arranged	roper trainings conduction	
from scratch.	Efficiency is increased		
Training will bring positive			
results and increased efficiency.			
Proper and detailed workshops	Employees can be trained better	Workshop	
should be conducted to train	with workshop conduction	•	
employees practically			
The fear of the unknown, job	Employees should be counseled	Fear Hedging	
losing, power loss, inability to	Counseling increases motivation		
adopt new change can be hedged			
through employee counseling and			
motivation			
If employees cannot adopt new		Shift Over	
change despite of training and	employees are not able to learn		
workshops, they can be shifted to	new technology		
other units or departments			
Employees are given choice to	Sense of empowerment can be	Selection (choice of employees to	
choose the department or unit of their own choice for shift over to	given to employees to avoid turnover	choose alternative units)	
make them feel empowered and	Selection choice can be given to		
motivated	employees		
Cost and budget can be planned	Planning makes thing way more	Budget and Prepare for the Cost	
to bring appropriate change	clear	Baaget and Frepare for the Cost	
ar arms after the arms arms	Budget can be planned to make		
	change feasible		
It is not about the vast number of	Suitable qualification is the key	Enough Staff with the Right	
staff, but it is about the right		Qualifications	
people with the right	Right people can decide better		
qualifications.			
Right qualification can analyze			
the situation accordingly			
The accurate and constant flow of		Ensuring Constant Flow of	
information is the most critical	8	Information	
factor for efficient department	That flow should be accurate		
functionality at the individual			
level			
Change of words while			
conveying a message. Sense changes when information			
is conveyed from one employee			
to another.			
If they management is not	Value of Change must be proofed	Proof of Value and a Clear	
showing any interest and not	-	Outline of Projected Benefits to	
understanding the benefit of the	_	the Business	
change, proof them. Proof it with			
	I .	I .	

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proper facts, estimated benefits, and research		
, i		Quality Improvements to Efficiency or Revenue
possible improvements expected in operations and finance	benefits	

4. CONCLUSIONS

This study provides exploratory justification for the cost improvement method introduced with the lean accounting approach. The current research provides theoretical evidence regarding the benefits of the lean accounting approach. These benefits can be seen in the operational and financial sector of the organization because this approach can bring a lot of efficiency in both departments (operational and financial). Furthermore, the interviews with experts and technicians also provided some valuable insights to the implication of the whole new approach of lean accounting. Majority of the experts find this idea exciting and implementable but there are some persisting barriers identified by experts in current situation such as Technology Gap, Fear of Unemployment in workers, Status quo among employees, Fear of unknown, Reporting structure shift, Skill Gap, Lack of proper information transfer, fear of man to machine proportion, Breakage of social circle, Out of scope exposure, fear of managerial hold change, Increase of accountability factor, Unfair practice, value of technology is not known, How to apply technology is not known, how to use technology is not known, lack of agreement about technology, technology involves too much paperwork, technology creates too much work, Misuse of technology, High cost of technology, technology is a threat to personal freedom, technology is different from established work processes and procedures, technology will have a negative impact on teamwork and cooperation, Bad experiences with technology in the past, lack of leadership/support for innovation, Comfort level – effect of disruption, Time to make changes and adjust, understanding of and ability to implement, Budgetary priorities, Difficulty/availability/time for training, resistance to learning new technology, Work stress/overload, Cost, Proof of value, reliability – will it continue to provide value, Lack of Clear Scope, Weak Motivation to Change, "We don't have the money", Sceptics in the ranks, High turnover of workforce, Less personal empowerment, use of relationships, Insufficient knowledge of lean, and Insufficient management skills. However, where there is a will, there is the way. When these barriers are discussed, they can be reduced. Experts identified several mitigation strategies, including communication with employees, training, workshops, fear hedging, shift over, selection (allowing employees to choose alternative units), and making them feel empowered and motivated.

The findings indicated a strong and positive perception of industrialists regarding the impact of the lean accounting approach on operational and financial efficiency in an organization. Organizations can gain a competitive advantage by adopting this whole new approach. Of course, there are some barriers in its implications, but these barriers can be mitigated efficiently and conveniently.

REFERENCES

- [1] Amusawi, E. G., Almagtome, A. H., & Shaker, A. S. (2019). Impact of Lean Accounting Information on The Financial performance of the Healthcare Institutions: A Case study. Journal of Engineering and Applied Sciences, 14(2), 399–589.
- [2] Boddy, C. R. (2016). Sample size for qualitative research. Qualitative Market Research: An International Journal, 19(4), 426–432.

ISSN: 2278-4632

- [3] Elsukova, T. V. (2015). Lean accounting and throughput accounting: an integrated approach. Mediterranean Journal of Social Sciences, 6(3), 83.
- [4] Emiliani, B., Stec, D. J., Grasso, L., & Stodder, J. (2007). Better thinking, better results: Case study and analysis of an enterprise-wide lean transformation. Center for Lean Business Management.
- [5] Enoch, O. K. (2013). Lean Accounting and Lean business philosophy in Nigeria: An exploratory research. International Journal of Economics, Finance and Management.
- [6] Groenewald, T. (2004). A phenomenological research design illustrated. International Journal of Qualitative Methods, 3(1), 42–55.
- [7] Kennedy, F. A., & Brewer, P. C. (2006). The lean enterprise and traditional accounting—Is the honeymoon over? Journal of Corporate Accounting & Finance, 17(6), 63–74.
- [8] Kennedy, F. A., & Widener, S. K. (2008). A control framework: Insights from evidence on lean accounting. Management Accounting Research, 19(4), 301–323.
- [9] Kumar, M. (2010). Six sigma implementation in UK manufacturing SMEs: an exploratory research. University of Strathclyde.
- [10] MAJEED, MK, JUN, JC, Muhammad, ZUR, MOHSIN, M., & RAFIQ, MZ (2020). The Board Size and Board Composition Impact on Financial Performance: An Evidence from the Pakistani and Chinese's Listed Banking Sector. The Journal of Asian Finance, Economics and Business (JAFEB), 7(4), 81-95.
- [11] Maskell, B. H., & Kennedy, F. A. (2007). Why do we need lean accounting and how does it work? Journal of Corporate Accounting & Finance, 18(3), 59–73.
- [12] Mohsin, M., Naseem, S., Muneer, D. S., & Salamat, S. (2019). The Volatility of Exchange Rate Using GARCH Type Models with Normal Distribution: Evidence from Pakistan. *Pacific Business Review International*, 11(12), 124-129, http://www.pbr.co.in/.
- [13] Mohsin, M., Naiwen, L., Zia-UR-Rehman, M., Naseem, S., & Baig, S. A. (2020b). The volatility of bank stock prices and macroeconomic fundamentals in the Pakistani context: an application of GARCH and EGARCH models. Oeconomia Copernicana, 11(4), 609-636.
- [14] Mohsin, M., Naseem, S., Zia-ur-Rehman, M., Baig, S. A., & Salamat, S. (2020a). The crypto- trade volume, GDP, energy use, and environmental degradation sustainability: An analysis of the top 20 crypto-trader countries. International Journal of Finance & Economics.
- [15] Morse, J. M. (1995). The significance of saturation. Sage Publications Sage CA: Thousand Oaks, CA.
- [16] Naseem, S., Fu, G. L., ThaiLan, V., Mohsin, M., & Zia-Ur-Rehman, M. (2019). Macroeconomic variables and the Pakistan stock market: exploring long and short run relationship. *Pacific Business Review International*, 11(7), 621-72.
- [17] Naseem, S., Fu, G. L., Mohsin, M., Rehman, M. Z. U., & Baig, S. A. (2020a). Semi-Quantitative Environmental Impact Assessment of Khewra Salt Mine of Pakistan: an Application of Mathematical Approach of Environmental Sustainability. *Mining, Metallurgy & Exploration*, 37, 1185-1196.
- [18] NASEEM, S., FU, G. L., MOHSIN, M., AUNJAM, M. S., RAFIQ, M. Z., JAMIL, K., (2020b). Development of an inexpensive functional textile product by applyin accounting cost benefit analysis. industria textila, 71(1), 17-22. DOI: 10.35530/IT.071.01.1692
- [19] Naseem, S., Mohsin, M., Hui, W., Liyan, G., & Penglai, K. (2021). The Investor Psychology and Stock Market Behavior During the Initial Era of COVID-19: A Study of China, Japan, and the United States. Frontiers in Psychology, 12, 16.

- [20] Naseem, S., fu, G. I., Mohsin, M., Rehman, M. Z.-u., & Baig, S. A. (2018). Volatility of pakistan stock market: A comparison of Garch type models with five distribution. *Amazonia Investiga*, 7(17), 486-504, http://www.udla.edu.co/revistas/index.php/amazonia.
- [21] Salamat, S., Lixia, N., Naseem, S., Mohsin, M., Zia-ur-Rehman, M., & Baig, S. A. (2020). Modeling cryptocurrencies volatility using GARCH models: a comparison based on Normal and Student's T-Error distribution. Entrepreneurship and Sustainability Issues, 7(3), 1580-1596
- [22] Soliman, M. (2020). Lean Accounting VS Financial Management: Awareness and Overview. Available at SSRN 3534862.
- [23] Teixeira, H. F., dos Santos, N. M. B. F., Akkari, A. C. S., & Munhoz, I. P. (2019). Lean Accounting: Economic-financial Performance of Companies with Lean Manufacturing. International Journal of Advanced Engineering Research and Science, 6(5).
- [24] W Creswell, J. (2016). Research Design.: Qualitative, Quantitative, Mixed Methods Approaches. University of Nebraska-Lincoln.