CHAPTER FOUR FINDINGS, RECOMMENDATION, & FUTURE RESEARCH

SECTION ONE

FINDINGS

This study aims to investigate the impact of activity based costing (ABC) and financial performance enhancement by investigating the effect of some successful factors on adoption of ABC system among SMCs. In addition, the study seeks to identify the difficulties or problems associated with application of ABC system and reasons for non-application. The used a descriptive analytical method to analyze quantitative and qualitative data. Quantitative data were collected from archive accounting data (cost sheets) for the year 2012. Quantitative data analyzed based on "Cooper' model" to apply ABC system. Qualitative data were collected by using semi-structured interview for the study's sample. The studies reached to the following findings are as follow:

- **a.** A majority of selective sample of manufacturing companies in Sudan used traditional cost and management accounting systems such as absorption costing, budget, and break even point analysis rather than modern systems such as Activity based costing.
- **b.** Activity based costing (ABC) is not being applied currently by SMCs.
- c. SMCs apply or intend to apply ABC system in the near future for the reasons of: ABC system determines the cost of various activities performed in the company easily; the requirement of new manufacturing environment and cost structure to update the existing costing systems for more accurate cost information to support managerial decisions and to give competitive environment.

- **d.** The application of ABC system on SMCs determined product cost more accurately which enhanced financial performance through reduced cost and increased profit. In addition, ABC system identified details information about activities costs and cost drivers which provide significant opportunities for improving activities and processes.
- **e.** Factors of (cost structure, importance of cost information and competition) have positive impact on the application of ABC system among SMCs; whereas, product diversity has not a positive relationship with application of ABC system
- **f.** The main difficulties with ABC application among SMCs are:
 - Lack of adequate resources (ABC skills & ABC knowledge);
 - High costs (including cost of IT) of ABC application;
 - Complexity nature of ABC application;
 - Insufficient support from top management;
 - Increased workload of cost/ management accountants;
 - Satisfaction with current systems; and
 - Resistance to change by the management/ employees.

SECTION TWO

RECOMMENDATIONS & FUTURE RESEARCH

4.1 RECOMMENDATIONS

According to the above study findings, the following are suggested:

- **a.** There is a great need for adopting and implementing ABC system to provide more accurate cost information by manufacturing companies.
- **b.** Train employees with courses to enhance their skills and experience in dimensions of activity based costing to meet the work requirements in the new business environment.
- **c.** Activate the role of the modern costing systems such as activity based costing more by universities and high educational institutes to raise the level of awareness.

4.2 Future Research

- **a.** The impact of organizational, behavioral, and contextual factors on application of ABC system on a large sample of manufacturing companies.
- **b.** The motives, benefits, and difficulties associated with application of ABC system by Sudanese companies.
- c. The integration of ABC system with other modern cost and management system such total quality management (TQM), Just in time (JIT), target costing (TC) in evaluating manufacturing units performance

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INTERVIEW QUESTIONS

Please provide answers to all following questions:

Section One: Profile of interviewees		
Ple	ase indicate the following information:	
1.	Work Position	••••
2.	Academic Qualifications	
3.	Professional Qualifications	••••
4.	Experience Years	
	Section Two: Company Characteristics	
5.	No. of employees work in your company	• • • • •
6.	No. of cost/management accountants work in your company	•••
7.	No. of products does company provide	•••
8.	The percentage of overhead cost to total costs	••
9.	The type of industry in which your company operates	
S	ection Three: General Information about Company' costing	systems
10	Does your company's have a department for costing system?	
11	Does your company's costing system incorporated in	financial
	accounting system or separated?	
12	. What types of cost/management accounting systems being used	d by your
	company?	
Job	Costing	
Pro	cess Costing	
Ab	sorption Costing	
Vai	riable Costing	

9

Standard Costing

Cost-Volume-Profit analysis (CVP)

Budgeting	9
Target Costing (TC)	
Total Quality Management (TQM)	
Activity-Based Costing (ABC)/ Management (ABM)	
Balanced Scorecard (BSC)	
Just in Time (JIT)	
Theory of Constrains (TOC)	
Other tools/ techniques (please specify)	

13.What are main purposes for using costing systems in your company?

Cost reduction	
Cost control	
Preparing financial statements (stock valuation)	
Performance measurement	
Cost planning	
Budget	
Variance analysis	
Product profitability analysis	
Customer profitability analysis	
Making decisions such as:	
• Pricing	
Make or buy	
Producing new products	
Product redesign	
 Adding and dropping products, product line or department 	
Introducing new market	

Any other purposes (please specify)	
	i

Section Four: Status of adoption of activity based costing system and reasons for adoption

14.What is the current status of activity based costing adoption in your company?

a. The company has not adopted or implemented ABC system	
b. The company adopted (not implemented) ABC system and then rejected	
c. The company has currently implemented ABC system	
d. The company has begun or plans to adopt and implement ABC system	
e. The company plans to adopt and implement ABC system in the near future	

15.What are main reasons does your company adopt or intend to adopt ABC system in the future?

The existing costing system was not reliable and useful information	
for managerial decision.	
The existing costing system did not provide information to determine	
the cost of various activities performed in the company easily.	
The changing manufacturing environment and cost structure created	
the need to improve and update the existing costing systems to	
support managerial	
Our competitors were using ABC	
Pressure from government or other regulatory authorities	
ABC system improves product cost information which give the	
company competitive advantage.	
Others (please specify)	

Section Five: Factors influence the adoption of activity based costing and difficulties and problems associated with activity based costing

16. What does your company use cost information?

a. Product costs information must be highly reliable for	
competition purposes	
b. Operating costs data is extremely important in cost reduction	
efforts	
c. Product costs are very important for the purpose of cost control	
d. Cost information is the most important factor when making	
decisions such as Pricing, Make or buy, Producing new products,	
Product redesign, Adding and dropping products, product line or	
department, Introducing new market	
Other (please specify)	

17. What are aspects of the manufacturing process of your company?

a. Product lines are more quite different	
b . Most products are different in product volumes or lot sizes	
c. Most products require similar resources to be manufactured,	
designed, and distributed	
d. The costs of support departments (e.g., engineering,	
purchasing, marketing) are about the same for each product line)	

18. To what extent does your company face competition?

a. The level of competition for your products has significantly	
increased over the past 10 years	
b . Price competition within this industry is extremely intense	
c . The level of competition in the market for the major products of	
your products is extremely intense.	

19. What are main difficulties and problems associated with ABC adoption or reasons for non adoption of ABC system in your company? (Tick as appropriate)

High costs (including cost of IT) of ABC implementation	
Complexity nature of ABC system with regard to determining	
activity cost pools and suitable cost drivers	
Insufficient support from top management	
No special cost accounting department	
Lack of adequate resources to effectively implement ABC (training,	
ABC skills or expertsetc.)	
No consultants and guidance center to develop costing systems in	
your company	
Lack of ABC knowledge by most of the accounting & employees	
staff skills in designing and operating ABC system	
Increased workload of cost/ management accountants	
Lack of training in advanced costing system by company	
Satisfaction with current costing system	
Lack of acceptance by managers	
Resistance to change by the management/ employees	
Pricing decision based on other economic factors (supply, demand,	
competition) than cost	
Our competitors are not introducing ABC	
The company does not operate in a very competitive environment,	
so an ABC system is not required	
Other difficulties (Please specify)	