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The Importance of the Sustainability of Environmental Accounting

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Abstract: Rapid population growth, industrialization, unplanned urbanization, global warming, tourism activities and natural disasters have resulted in environmental issues that have reached global dimensions and started to threaten the life of creatures. For the permanent protection of ecological balance and sustainability, massive national and international regulations are needed. Threatening the life of creatures has not been considered in the system consisting of the establishment of equilibrium between man and nature as required. At this point businesses have important responsibilities. Businesses, for example, in order to prevent environmental pollution waste control systems, filtration systems, recycling methods etc. endured environmental costs in a variety of ways, as these costs are incurred also causes more businesses to see the value of protecting the environment.

The result of the activities of environmental impacts of enterprises can be considered, to be taken in the preparation of the necessary data to guide decisions, contacts and presentation of the stages of the environmental accounting system.

In this study, we first examine the concepts of environmental accounting, sustainability and environmental costs and then in the cement factories located in Turkey the environmental costs and environmental accounting will be given in the results of a survey made for the calculation of the sensitivity.

Keywords: Environmental Accounting; Sustainability; Environmental Costs

JEL Codes: M

1. Entrance

Nowadays, both developed and developing nations are faced with environmental problems. Environmental problems are not just for today's people and, countries but even pose a threat to future generations. Therefore, global warming, industrialization, excessive consumption of natural resources, environmental pollution factors must be addressed as a whole. To leave a liveable world to future generations, it is necessary to ensure sustainability. When we talk of sustainable development, only environmental sustainability comes to mind. However, in order to ensure sustainability; the nature and

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level of goods and services, produced and used by a society, employer's perception, poverty and sensitivity to the environment must be dealt with together. Here is sustainability; we can conclude that linked with environmental concerns in broader competitiveness and employment concerns (Ashford & Caldart, 2008:1044). Therefore, economic and ecological balance are considered as a whole and for the welfare of people, increasing levels of social, economic and cultural sustainability must be provided together.

In the 1960s, the first studies related to the environment in terms of accounting began, then in the 1980s, was considered as a separate title (Korukoğlu, 2011:81). Today, the environmental protection work is done beyond just a fad. The increasing damage to the environment, along with the environmental protection work has become a necessity. Together with an understanding of the dynamics of environmentalism, businesses also began to assume their responsibilities. How business uses of the environment or how much damage given to the environment, is of great importance in terms of strategies to be implemented. Environmental costs of documenting, reporting and controlling, including issues of environmental accounting as an accounting branch has been developed.

The implementation of environmental accounting of the monetary value of the environmental information needs to be determined. Today, only a fiscal nature in accounting system which processes are recorded and apart from the remaining operations cannot be recorded (Kıriloğlu & Can, 1998:103). However, at this point international financial reporting standards (IFRS's) not only emphasize the necessity of non-financial information to be also reported. This development is a big step in terms of environmental accounting. It is difficult to apply, the nature of non-financial reporting in terms of the application of environmental accounting. However, the basic concepts of accounting system taken from the concept of social responsibility (carrying financial and non-financial qualifications) must be reported to the appropriate people. When the information of the non-financial qualifications is ignored, this system constitutes a short fall of missing information.

2. Literature Summary

It is seen that a lot of scientific studies about environmental accounting, sustainability and environmental cost issues have been conducted. In this area there are many definitions have been made in environmental accounting. Some of these include;

All activities of a business to be classified as environmental, inventory holding, monitoring of changes in inventory, monetary or physical size of these changes is to provided and in addition, by integrating them with business balance sheet, the actual profitability of the business in the direction of the regulations are to be introduced (TUSIAD, 2005:25). In another definition; green accounting represents 'a process of identification, calculation, control, analysis and reporting of the costs generated by the enterprise-environment relationship, resulting from the prevention, the limitation and the elimination of the effects of ecological disasters with a favourable impact over the company and the environment (Vasile, 2008:1387). In yet another definition; operating costs related to the environment in the process of keeping them under control, whether in business activities of environmental expenditures, how much carbon and gas emissions resulting from the activities of that operation, activities that may be causing air pollution, or such as of the stages in the process of ensuring an effective environmental protection, must be reflected in the financial statements is defined (Bezirci transferred from Crawford et al., 2011:64).



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Considering the definitions above regarding environmental accounting, environmental costs that occur during activities of enterprises, showing financial statements the relevant persons and institutions come to the forefront is to be presented in the form of reports.

The concept of sustainability has gained importance after the inclusion in the United Nations Brundtland Commission's report, in 1987. According to the definition of sustainable development contained in the report; preserving the ability to meet the needs of future generations, is to meet the needs of the present generation. (Yanık&Türker, 2012:292).

According to Başkaya (2001:213) sustainable development model is founded on three basics. These are;

1. Consists of the current growth is unsustainable,
2. By meeting the needs of today, attaining a minimum level of prosperity of all people and the eradication of poverty,
3. Also life and welfare of future generations to secure work and during these studies, the pressure on the environment, is to keep a level that will not threaten civilization.

When examining this matter of implementation of the concept of sustainability seems to be quite difficult. Therefore in 1992, at the environmental development conference held in Rio de Janeiro along with other unnamed meetings after the Rio Summit sustainability was evaluated as global.

The concept of environmental costs, to sustain the activities of enterprises in the name of protecting the environment is considered as one of the folded costs (Melek&Ozbirecikli, 2002:84). According to another definition, as a result of the business's production process, environmental quality affects negatively to reduce the cost (Graff & the others, 1998:4) Therefore according to the environmental costs they arise as;

1. Prevention Costs
2. Use Costs
3. Loss Costs are divided into three main groups.

So far, environmental costs and environmental accounting issues have remained at the level of literature, what is happening in practice has not been studied very much. As a result, businesses, that is working towards protecting the environment and how that reporting is an issue of concern. In this study that was conducted on examining the situation in cement factories, determining their attitudes towards environmental accounting and environmental accounting in order to reveal the importance of the sustainability.



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3. This is a Research about Evaluation of Sustainability of Environmental Accounting in Cement Factories

3.1. Research Objectives

The purpose of the study is the approaches by cement factories operating in Turkey to the environmental problems and to evaluate the sustainability of environmental accounting. In order to reach the goal of the study was established two hypotheses. They are as follows;

1-There is no relationship between environmental problems and the causes of environmental problems.

2-There is no relationship between the activity durations in the cements factories with environmental accounting and sustainability.

3.2. Research Methods

In this study, the survey method was used. To the preparation of the survey questions relevant to literature and studies on this subject have been examined previously. The data collection survey questions used consists of three sections. In the first chapter an overview of cement factories, environment-related opinions in the second chapter, and the third section of the participants thought about the concept of environmental accounting are mentioned. With this survey we tried to form an idea about cement factories. In order to implement the survey, 25 cement factories which have continuously operated in Turkey were selected randomly.

Under the analysis of the data obtained from SPSS 21 software was used. Five-point Likert scale was used in the study. The answer to each item codes varies between 1, 00 and 5, 00. Respondents to each question of: absolutely agree, agree undecided, disagree, strongly disagree, selected one of the categories stating their opinions on the topic. The survey sample used in application was presented in the appendix.

3.3. Reliability of Research

The consistency of the statements contained in the survey and to what extent the scale used to reflect the problems that reliability was tested with SPSS 21 program. When carrying out this analysis alpha (Cronbach) method was used. In the third part of the survey there contained questions for the reliability analysis results in the following Table-1 and Table-2 is located.

Table-1 Reliability Statistics

Cronbach's Alpha	N of Items
,853	23

Table-2 Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
Question1	88,6800	109,893	,453	,848
Question2	88,6000	112,167	,339	,851
Question3	89,1200	106,693	,392	,848



Question4	89,4400	104,757	,369	,850
Question5	88,7200	109,960	,437	,848
Question6	89,2800	106,043	,357	,850
Question7	89,0400	102,873	,611	,840
Question8	89,2000	102,667	,497	,844
Question9	88,9200	107,660	,454	,847
Question10	88,8800	111,443	,235	,853
Question11	89,2000	103,917	,527	,843
Question13	88,5600	111,257	,472	,849
Question14	89,6400	106,990	,282	,854
Question15	89,9600	99,540	,572	,841
Question16	90,1600	99,140	,571	,841
Question17	89,4000	104,667	,493	,845
Question18	89,8400	103,890	,517	,844
Question19	89,7200	104,877	,527	,844
Question20	89,0800	109,743	,248	,853
Question21	90,6800	106,477	,326	,852
Question23	88,6800	109,310	,504	,847
Question24	89,4400	104,507	,490	,845
Question25	89,6800	108,060	,257	,854

As a result of the analysis, contained in Table-1 Cronbach's alpha the coefficient=0,853 respectively. Analysis of the obtained values of the scale shows that of a highly reliable. In Table-2 the results of reliability analysis for each question are located separately. Questions when evaluated separately in the analysis are seen to be highly reliable.

3.4. Research Results and Evaluation

Of the importance of sustainability in terms of environmental accounting for disclosing all the surveyed factories was answering the questions. The analysis results are as follows; cement factories surveyed, as long as it operates in Table-3 'are also shown.

Table-3 Cement Factories Operating Times

		Frequency	Percent	Valid Percent
Valid	0-10	2	8,0	8,0
	11-20	1	4,0	4,0
	21-30	3	12,0	12,0
	31-40	3	12,0	12,0
	40 ->	16	64,0	64,0



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		Frequency	Percent	Valid Percent
Valid	0-10	2	8,0	8,0
	11-20	1	4,0	4,0
	21-30	3	12,0	12,0
	31-40	3	12,0	12,0
	40 ->	16	64,0	64,0
	Total	25	100,0	100,0

Analysing Table-3, 64% of surveyed cement factories have been operating for more than 40 years continuously. However, the average lifespan of business in turkey is 34 years (www.capital.com.tr). When viewed from this perspective, a large portion of the cement factories in Turkey, are above average activity time. The factory number, which operating time between 21-30 years and 31-40 years have equal zone of 12%. The activities range from 11 to 20 years' time has the lowest zone (4%). The 8% Zone shows up to 10 years duration of activity. Cement factories number established a new or in operation for a short time is quite low. Considering both the number and activity times required, cement factories have the importance of environmental awareness.

They have documentation of cement factories; TSE, ISO 9001, ISO 14001, CE, EC and were grouped as other. In Table 4, having these documents and certificates are given the percentages of cement factories.

Table-4 Cement Factories Owned Documents

TSE	% 96,6
ISO 9001	% 92
ISO 14001	% 100
CE	% 56
EC	% 72
Other	% 48

As a result of the research; in the world, known as the ISO 14001 environmental management system certification it is seen that the survey taken by all who attended the cement factories. Some of the objectives of ISO 14001; to improve environmental performance, reduce pollution and to take control starting from the source is to provide input materials and energy-saving. Therefore, business having ISO 14001 certification, said that environmentally sensitive policies apply. In addition, cement factories have rate of 96,6% TSE certificate, 92% of the ISO 9001 certificate, 56% of the CE and 72% have a certificate of EC. ISO 9001 certificate means a quality management system. This is a system that covers all stages and seeks continuous improvement for businesses from assembling, manufacturing, and marketing along with after-sales services. It could be called a kind of kaizen approach. The CE marking is not a quality mark. This sign of health and safety has been created in order to ensure the free movement of goods among the Member States of the EU. It means the product on which it has been affixed meets all the requirements of the related directive. EU countries considered to be sensitive to the environment, this document can be said to become even more important. The EC mark certificate of conformity is issued by quality and



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environment committee. Considering Table-4, which have these documents it is seen that high rates for cement factories. Legal requirements and preferences to be more environmentally conscious businesses have provided this high rating. Also the surveyed factories have answered to other groups; TS 18001 (OHSAS) for occupational health and safety management systems, ISO 50001 energy management system, ISO 10002 management systems consist of customer satisfaction. Cement factories which have these documents percentage is 48%.

Significance of the documents described above has been tested by Anova test. Table-5 the results obtained in is located.

Table-5 Anova Test Results

		Sum of Squares	df	Mean Square	F	Sig.
TSE	Between Groups	,293	4	,073	2,200	,106
	Within Groups	,667	20	,033		
	Total	,960	24			
ISO 9001	Between Groups	,903	4	,226	4,813	,007
	Within Groups	,937	20	,047		
	Total	1,840	24			
CE	Between Groups	,577	4	,144	,516	,725
	Within Groups	5,583	20	,279		
	Total	6,160	24			
EC	Between Groups	1,373	4	,343	1,873	,155
	Within Groups	3,667	20	,183		
	Total	5,040	24			
Diğer	Between Groups	,969	4	,242	,919	,472
	Within Groups	5,271	20	,264		
	Total	6,240	24			

Anova test results; have shown that sensitivity to the environment of cement factories are seen to be significant. ISO 14001 certification is received by all respondents who were excluded from the analysis.

In Table-6, SPSS 21 program tested with the Correlation Method 'Environmental Problems and Causes of Environmental Problems' is shown. The numeric 'sig. value' shows the level of significance.



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Table-6 Comparison of Environmental Issues and Causes of Environmental Problems

	Air Pollution	Water Pollution	Soil Pollution	Noise Pollution	Visual Pollution	Radioactive Pollution
Population Growth	0,215	0,241	0,487	0,076	0,219	0,010
Unplanned Urbanization	0,256	0,265	0,331	0,197	0,287	0,165
Industrialization	0,065	0,088	0,083	0,062	0,351	0,229
Luxury Living Standards	0,210	0,244	0,205	0,490	0,343	0,411
Climate Changes	0,577	0,603	0,253	0,298	0,314	0,230
Nuclear Tests	0,295	0,374	0,151	0,223	0,147	0,150
Wars	0,218	0,223	0,366	0,192	0,151	0,059

Our first hypothesis established as 'there is no relationship between environmental problems and the causes of environmental problems' but the results of significance level of 5%, which is shown above were that environmental problems and causes of environmental problems among have a relationship.

Examining Table-6, population growth has led to soil pollution the most. Because of increasing population, natural resources are becoming extinct, environmental quality decreases along with the quality of the soil, impaired for agricultural production practices (Mazi& Tan, 2009:5). Unplanned urbanization problems have emerged due to, uncontrolled and unplanned growth of cities over rural areas. Due to unplanned urbanization, natural, historical and cultural structures are damaged. Therefore, soil pollution caused by urban sprawl is the most. Industrialization is expected to cause most of the water pollution. Because in our country, water pollution due to industry associations, liquid waste ranks first among the factors that are influenced (www.cevreonline.com).Luxury living standards are causing the most noise pollution. For example; such as people using private cars instead of choosing public transport, and noise is caused as a result of heavy traffic. Another ingredient contained in Table-6 is climate change. According to the results climate change has led to most of the water pollution. However, in the second rating air pollution is very high. This revealed that the greenhouse gas effect is too large to be ignored as the results indicate. Nuclear test causes radioactive pollution on the air, water, and land. Therefore, the resulting values are close to each other. However, respondents stated that the most is water pollution caused by nuclear test. Our last items contained in Table-6 are from wars. According to the analysis result, war is the largest cause soil pollution.

In Table-7, below we find the activities of the cement factories and the environmental accounting concepts are evaluation with the 25 questions.



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Table-7 Comparison of Cement Factory Activity Durations and Environmental Accounting

	Sum of Squares	Mean Square	F	Sig.
Question1*Activity Durations	1,773	,443	1,565	,222
Question2*Activity Durations	1,060	,265	1,514	,236
Question3*Activity Durations	6,977	1,744	2,239	,101
Question4*Activity Durations	6,236	1,559	1,053	,405
Question5*Activity Durations	3,823	,956	4,854	,007
Question6*Activity Durations	8,757	2,189	2,077	,122
Question7*Activity Durations	5,190	1,297	1,597	,214
Question8*Activity Durations	6,277	1,569	1,251	,322
Question9*Activity Durations	5,556	1,389	3,229	,034
Question10*Activity Durations	5,469	1,367	4,039	,015
Question11*Activity Durations	1,423	,356	,324	,858
Question12*Activity Durations	7,523	1,881	1,278	,312
Question13*Activity Durations	1,083	,271	1,857	,158
Question14*Activity Durations	2,123	,531	,323	,860
Question15*Activity Durations	2,833	,708	,403	,804
Question16*Activity Durations	1,167	,292	,150	,961
Question17*Activity Durations	1,356	,339	,314	,865
Question18*Activity Durations	5,573	1,393	1,493	,242
Question19*Activity Durations	1,343	,336	,365	,831
Question20*Activity Durations	1,769	,442	,459	,765
Question21*Activity Durations	2,336	,584	,401	,805
Question22*Activity Durations	2,269	,567	2,378	,086
Question23*Activity Durations	,607	,152	,444	,775



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Question24*Activity Durations	4,090	1,022	1,035	,413
Question25*Activity Durations	7,0234	1,756	1,438	,258

'There is no relationship between the activity durations in cement factories with environmental accounting and sustainability' was established as our second hypothesis; from the analysis results included in Table-7. As a result of the analysis of activity time, environmental accounting and sustainability issues have been shown to have effect. A difference could not be seen between a long time ongoing cement factories and a new cement factory operation. All the factories surveyed show the same care about the environmental sensitivity and the sustainability.

4. Result

A lot of health problems have emerged with natural habitat reduction and reached the global dimensions of environmental issues. This society should be more sensitive to the environment as an indicator. To protect the ecological balance and sustainability; businesses and consumers must act together; and permanent arrangements at national and international levels are necessary.

Businesses who prefer the concept of environmental management are replacing traditional businesses that continue its operations only for economic growth and profit. The purpose of environmentally sensitive business is to ensure sustainability and to improve the quality of life (Cetin, 2011:12). To ensure sustainability, economic, cultural and social considerations must be made together. The aspect of executed applications is not sufficient. Therefore, it is important for the concepts of unity and harmony.

In order to prevent environmental problems, from the accounting systems are also utilized. The concept of social responsibility in accordance with the basic concepts of accounting, business operations must be compatible with the natural environment. The cost of any damage to the environment should be a consideration. Older accounting systems ignored these environmental costs, environmental accounting systems are important. Because of environmental costs is %20of the total costs (Ergin&Okutmuş, 2007:154). This ratio must be considered. The purpose of environmental accounting is to establish a relationship between environment and economy, where environmental costs are ensured that the financial statements of the environmental accounting are examined.

Some of the countries use environmental accounting system in the world; Britain, Denmark, USA, Sweden and Japan. Environmentally sensitive businesses, especially in Japan, are more preferred. Therefore, depending on the Tokyo Stock Exchange from 80% in 1430, is applied to environmental accounting (TUSIAD, 2005:60).

In Turkey, a country rich in natural resources, businesses are becoming conscious of environmental issues. Especially cement plants acts more susceptible to environmental effects. However, environmental accounting system is a new concept in Turkey. Therefore, the study of the cement factories awareness of environmental accounting, information levels, environmental costs and opinions about sustainability were examined. According to research results the statement that; 'There are sufficient sources about the concept of environmental accounting'; a total of 80% strongly disagree, disagree and undecided answers are given. So 80% of the cement plants cannot find the resources. This ratio can benefit those businesses that do not have enough scientific resources in environmental accounting. Research on environmental



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accounting, academic level and implementation phase has led to these results remains weak. In this study, the expression with environmental awareness and environmental protection activities are examined, for cement factories, 76% strongly agree, 24% agree, giving an environmentally friendly policy in response was stated. In addition, for the cement factories; 92% allocated regular resources for environmental protection activities, 96% of these studies should be done for sustainability and 93% stated that they want to be environmental protection business. These ratios, environmental accounting system to be implemented incomplete, does not show that cement plants are insensitive to the environment. Now with international financial reporting standards (IFRS) being, applicable at the international level treatment is more sensitive to environmental issues. For example, IFRS 41 standard implicitly drew attention to environmental costs. Standard net realizable value based on the valuation of biological assets and agricultural products to the identification guides. As seen, accounting standards takes into account the environmental costs. However, today, to be not taken into account in the accounting system standards, environmental protection costs incurred on behalf of, the investments are recorded at a different account groups and is offered to the person concerned. This information cannot provide sufficient information to users reporting. In addition, in cement plants, 80% strongly agree, 20% agree, giving the answer that worked for waste management and 96% for sustainability afforded to incur various costs stated. Along with the steady increase in the amount of waste, storage of these substances is constantly increasing the damage to the environment. Therefore, the businesses are acting more sensitive about waste management. Waste management provides, the reduction of carbon dioxide emissions, saving from fossil fuel and waste disposal completely, leaving little or no residue. Research in other statements an 'environmental accounting system for the development, Institutions and government agencies are required to cooperate with the relevant sectors' was in the form. When this statement analysed; 76% strongly agree, 24% agree was obtained. In line with these results, we can say that cement factories are ready and willing to cooperate to ensure the sustainability.

As a result of the survey, in Turkey for the implementation of environmental accounting system, the state and consumers as well as businesses need to act together to cooperate to create a result.

In this regard the following may be recommended;

- As consumers in Japan, eco-friendly businesses the choice of their products can make a big difference in terms of competition. Awareness of consumers to choose environmentally friendly products is provided with training form educational institutions. Therefore, students should be indoctrinated in awareness to prefer environmentally friendly products.
- Recycling should be an encouraged subject. Re-evaluation of waste, the tax refund method may be preferred.
- Creating incentives zones.
- Providing credit facility for investments.
- Supporting resource usage.
- Subsidies to enterprises that can provide ease of instituting environmental accounting.
- Environmental accounting can bring the legal obligation to affect.

By completing this phase of 'green business' businesses who deserves the title, they have achieved more comfortable in the market will compete with dignity.



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Appendix 1 **SURVEY FORM**

SENSITIVITY OF CEMENT FACTORIES WITH ENVIRONMENTAL ACCOUNTING

Mrs. Participant and Mr. Participant;

Businesses effects about environment has gained importance belong to environmental problems cannot be ignored. In this master's degree thesis we have been doing about sensitivity of cement factories with environmental accounting, we will be trying to evaluate. The information you provide will be used entirely for scientific purposes and will be treated according to the rules of scientific ethics. Thank you for the interest you have shown and the time you reserve in our research. We offer our respect.

Associate Professor Habib AKDOĞAN

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1. General Information About to Business

1.1. How many years has your business been operating?

1-10	11-20	21-30	31-40	41 and over

1.2. What is the number of staff employed in your business?

10-49	50-249	250 And Over

1.3. What are certificates that you have?

TSE	ISO 9001	ISO 14001	CE	EC	THE OTHERS

2. Opinions About The Environment

2.1. Cement Factory, the following please indicate the degree of environmental issues of importance to you.

Environmental Issues	Very Unimportant	Unimportant	Undecided	Important	Very Important
1. Air Pollution					
2. Water Pollution					
3. Soil Pollution					
4. Noise Pollution					
5. Visual Pollution					
6. Radioactive Pollution					

2.2. The following causes of environmental problems please indicate the degree of importance to you.

Causes of Environmental	Very	Unimportant	Undecided	Important	Very Important
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Problems	Unimportant				
1.Population Growth					
2.Unplanned Urbanization					
3.Industrialization					
4.Luxury Living Standards					
5.Climate Changes					
6.Nuclear Tests					
7.Wars					

3. Environmental Costing and Environmental Accounting Concepts

3.1. The following judgments express the degree of importance to you please rate from 1 to 5.

	Strongly Disagree	Disagree	Undecided	Agree	Absolutely Agree
	1	2	3	4	5
1. Our business is folded into the various costs on behalf of environmental protection.					
2. Our businesses, environmentally sensitive policies are followed.					
3. Businesses, environmental protection activities related to R&D activities, regular resource allocation is required.					
4. Studies in the business environment provide the long-term reduction in the cost.					
5. Our business is committed to protecting the environment for sustainability.					
6. Our customers to be environmentally sensitive environmental policies affect our business.					
7. Environmental issues indicate the status of development of the countries.					
8. Increased environmental problems affect the future of businesses.					
9. Investment decisions retrieving businesses need to consider environmental sensitivity.					
10. Enterprises must design their products in such a way that will not harm the environment.					
11. Businesses use environmentally friendly products and services, providing competitive advantage.					
12. Our business in the production phase of solid, liquid and gaseous wastes are formed.					
13. Our business activities are carried out on waste management.					
14. Due to increased environmental problems, the concept of environmental					



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accounting has emerged.					
15. The social responsibilities of business must be necessary for environmental costs are used as a separate account group					
16. Existing environmental laws are sufficient to protect the environment.					
17. Environmental reporting should be made mandatory legal regulations.					
18. Use of natural resources must be accounted.					
19. Environmental costs in the uniform accounting system should be included as a separate group of accounts.					
20. The use of environmental accounting will contribute to the image of our business.					
21. There are sufficient sources about the concept of environmental accounting.					
22. Business employees are trained in environmental protection.					
23. Even if made mandatory environmental accounting, the accounting department will easily adapt.					
24. Environmental accounting system for the development, Institutions and government agencies are required to cooperate with the relevant sectors.					
25. In order to prevent environmental problems, the science of accounting is required to conduct research related to the environment.					

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