
Assessment of Insurance Company's Roles in Ethiopian Construction Industries

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ABSTRACT

Presently, Ethiopia has relatively an extensive program of infrastructure development and it is growing faster. The construction of new infrastructures, high rising buildings, energy and water work projects, airfields etc. are among the major construction activities. Construction insurance plays an increasingly important role in guaranteeing the success of projects. However, insurance sometimes does not receive the attention for it. Construction risks are uncertain events or conditions that may have an adverse effect on the construction projects. Due to this, this research aimed to assess the insurance practice, the problems and challenges encountered while implementing in Ethiopian construction industries. Questioners were designed and both cense and judgmental sampling techniques were applied. The study finds out most of the contractors are willing to buy insurances for their vehicles and plants and has no awareness about other types of construction insurances like third party and contractor's all risk insurance coverage. On the other hand, insufficient documentation and low level of awareness of customers towards the benefit of insurance, financial and professional shortages are challenges that insurance companies faced. As a result, Ethiopian government should create awareness about insurance and formulate enforcing law that enables using of insurances for all construction works.

Keywords: - construction, contractors, insurance, risk, role

1. Introduction

The construction industry is a vital sector of economy in any countries of the world. But it is considered to a highest degree in developing countries around the globe. In Ethiopia the construction industry is one of the tools for the development of the country and it is a booming industry. The industry has grown substantially in the last ten to fifteen years. The construction industry is a risky business due to the unique characteristics of construction projects which can attributed to the fact that construction projects involves many stakeholders, is subjected to external environment impacts like weather conditions, it involves a large amount of capital, different site conditions for different projects, is time and quality sensitive, and also different complex problems (Heidenhain, 2011).

Insurance companies can be used as a risk transfer mechanism by which the construction stakeholders can exchange their uncertainty for certainty. The uncertainty experienced would include whether a loss will occur, when it will take place and how severe will it be (Ashy B, 2014). This uncertainty makes it very difficult to budget and so the stake holders of the construction industry seek ways of controlling the financial effect of the risk. Insurance offers the opportunity to exchange this uncertain loss for a certain loss: the insurance premium. The contractor agrees to pay a fixed premium and in return the insurance company agrees to meet any losses which fall within the terms of the policy (Hicksone, 1987).

In the construction industry, risk is defined as the presence of potential actual threats or opportunities that influence the objectives of a project planning, construction commissioning, and those objectives are in the form of cost schedule, and quality (Abebe D, 2007). Risk is also defined as the exposure to the chance of occurrences of events adversely or favorably affecting project objectives as a consequence of uncertainty (Randell EG, 2003). Is the failure to meet these targets (Dereje, 2014). Is the possibility of loss, damage or any other undesirable events (FIDIC, 2009)? Is lack of predictability about problem structure, outcomes or consequences in a decision or planning situation (Rahman MM, 2002). Is the effect of uncertainty on objectives (Palemer WJ, 1996)?

Generalizing the above ideas of risk, it can be defined as the chance or probability of occurrence of events that could lead to positive (opportunities) or negative (threats) outcome where measurement is very difficult. There are many parties involved in the construction industry, including clients, consultants, contractors, subcontractors, insurers, and suppliers. All parties involved in the construction industry must confront risk in one guise or another; some risks will be peculiar to one party and some shared with other parties.

The clients of the industry ultimately pay the bill and it is important to understand their needs and expectations. From clients' perspective, the risk management process should start from briefing of project to the handover to users. Clients are the first party to conduct the risk management process and involve contractors during the construction stage or at an earlier stage (EPPA, 2011).

Inevitably, all contracts involve risk. Apart from mobilising the managerial and technical expertise and the entrepreneurial drive of the contractor, the main reason for a client employing a contractor is simply to pass on the risk to someone else. The reward for carrying the risk is the profit which the contractor will expect over and above the estimated costs plus a reasonable commercial return. The higher the risk, the higher will be the profit that will be needed and expected. Contractors have the major responsibility to deal with construction risks (Hicksone, 1987)(FIDIC, 2009). Risks which the contractor will have to consider, allocate, assume or lay off can arise at all stages from bid agreement through to construction and any follow up maintenance contract [Hickson, R. J. 1987].

1.1. Statement of the problem

The construction industry is a high risk business by itself. So what insurance companies do is share some of that risk by charging some amount of money in form of premium payment. However in Ethiopia the role of insurance companies in the construction industry is not always clear as why construction insurance exists and how it operates from the perspective of the construction industry (Melesse, 2006).

Construction insurance is a practice of exchanging a contingent claim for a fixed payment to protect the interests of parties involved in a construction project (Ashy B, 2014) (Hicksone, 1987). Construction insurance is a major method of managing risks in the construction industry (FIDIC, 2009). Its primary function is to transfer certain risks from clients, consultants, contractors, subcontractors and other parties involved in the construction project to

insurers to provide contingent funding in time of difficulty. Construction insurance plays an increasingly important role in guaranteeing the success of projects, with insurers sharing losses resulting from natural disasters and other contingencies (Ashy B, 2014). However, insurance sometimes doesn't receive the attention it deserves because practitioners do not have a clear understanding of risk allocation and the strategy of risk management through insurance (Heidenhain, 2011).

There is a growing body of interests in construction insurance, supporting interactions between the construction industry and the insurance industry. However, it is not always clear why construction insurance exists and how it operates from the perspective of the construction industry. This paper argues that to provide a convincing explanation on this interaction, one need to improve the theoretical and analytic frameworks in four key areas: the nature of construction risks, risk transfer and insurance mechanism, insurable risks, and perspectives on risks from concerned parties.

1.2. Objectives

1.2.1. General objective

The general objective of this research was mainly alarms with creating awareness about the role of insurance companies for those involved the construction sector in Ethiopia.

1.2.2. Specific objectives

The specific objectives of the study were: -

- ❖ To assess the practice of insurance in Ethiopia construction industry.
- ❖ To examine the understanding of stakeholders involved in the construction industry towards being insured.
- ❖ Identify the problems & challenges encountered while practicing the insurance policy for construction industries in Ethiopia.
- ❖ To create the awareness with the construction industry towards being insured.

2. Research methodology

According to Ethiopian **Ministry of Urban Development and Construction** the number of registered contractors for 2018 budget year is about 2937, likewise according to National Bank of Ethiopia there are 16 registered insurance companies so far. As a result censuses sampling was used for insurance companies, and a judgment sampling which is a type of nonrandom sampling based on the opinion of an expert was used for addressing contractors. After that data was analyzed and up on which the conclusions and recommendations were made.

2.1. Questionnaire design

The questionnaire survey was designed to assess the role of insurance companies in the construction industry in perception of the contractors. The questionnaire was based from literature review that was developed through the reference of different books, journals and internet sources. The questionnaire includes two categories, i.e. questionnaire for contractors and questionnaire for insurance companies separately which contains 23 and 18 questions respectively.

3. Result analysis and discussion

The questionnaires were presented with questions designed to identify the problem and challenge encountered while practicing construction insurance policy for construction industries, to create awareness within the construction

industries, to examine the understanding of stakeholders involved in the construction industries towards being insured and to study the practice of insurance in the Ethiopian construction industries. Generally, assesses the role of insurance companies for Ethiopians construction industry while practicing construction insurance and to find out the impact of these problems, which is helpful to develop conclusion and recommendation on the problems encountered.

3.1. Questionnaire response rate

This research verifies the problems in implementing construction insurance such as high premium coverage, difficult to come up with similar cost estimation between Construction Company and the insurance company, misunderstanding between the insurance companies and the insured. These problems have been identified from the questionnaires' that have collected and discussed with the professionals of the contracting parties. Since the research mainly concerns the contractors and insurance, the questionnaires were distributed to 1500 contractors and 16 insurances and among them 1278 and 15 of the companies respectively have filled the questionnaire.

Table 1 Sample distribution and return rate of responses

No.	Stakeholders (participants)	Distributed in No.s	Returned in No.	Returned in percentage (%)
1	Contractors	1500	1278	85.2%
2	Insurance	16	15	93.75%

3.2. Awareness of construction insurance policies

According to the result analysis as shown in table 2, in aggregate 87.21% of the respondents are willing to buy insurance coverage even if it is not precondition for contracting and tendering process. This is resulted from; the construction company believes insurance as an important way of transferring liability that could arise from the construction business at varies level because construction by nature is a highly risky business. On the other hand, the rest 12.79% of the respondents believe that insurance is additional cost for the company so they don't buy insurance coverage for their projects unless they are obliged to buy so. This is due to most of the contractors believe that having insurance coverage for their projects is not that much necessary.

Table 2. Awareness of Construction insurance policies

Types of insurance policies	Contractors respond		
	Yes	No	Percentage of contractors say yes
Contractor's all risk (CAR)	850	428	66.51%
Material damage (MD)	945	333	73.94%
Third party insurances (TPI)	1139	139	89.12%
Labor insurance (LI)	1215	63	95.07%
Construction plant and machinery (CPM)	1278	0	100%
Machinery breakdown insurance (MBI)	1260	18	98.59%

3.3. Insurance coverage of construction projects

Insurance is a way of transferring risk to insuring party in order to minimize risk and damages caused. In Ethiopia most of the construction projects are accident prone and in order to come over these risks most of the contractors questioned for this research have responded that they did not insure their projects in order to minimize the risks. From the collected data 87.48% of the projects under the contractors are not insured. Based on this data the most of the construction contractors are not insured which shows that the contractors are under risk.

Table 3. Insurance Coverage

No	Companies use insurance coverage for project	Companies doesn't use insurance coverage for project	Percentage of insurance coverage
1	160	1118	12.52%

3.4. Practice of

construction insurance by Ethiopian contractors

Accordingly, the data collected indicated that most of contractors use Construction plant and machinery, Contractors all risk and third party insurances policies in their construction projects. On the other hand, there is less insurance coverage for labors, material damages and machinery breakdown of the contractors. This implies that the contractors have a little knowhow of the use of insurance policies for labors, material damages and machinery breakdown and there is no any enforcement particularly for material damage, labor and third party insurance.

Table 4 Percentage of practice of Construction insurance by Ethiopian Contractors

No.	Types of insurance policy	Coverage percentages in percent
1	Contractor's all risk (CAR)	65
2	Material damage (MD)	18
3	Third party insurances (TPI)	55
4	Labor insurance (LI)	35
5	Construction plant and machinery (CPM)	90
6	Machinery breakdown insurance (MB)	39

3.5. Insurance period implemented by contractors

As shown in table 5, that almost all of the contractors implement every year renewable insurance period for those insured properties. This question has the intention of finding out whether the companies use insurance till the end of the project or only agree to satisfy the contract obligation. As per the questionnaire most of the construction contractors use every year renewal policy, this is due to the cost of the premium they pay and the difference in expected risk encountered by the contractors.

Table 5. Insurance period

Insurance period	No of respondents per types of insurance period	Number of users	Percentage of users
Contract time	1119	60	4.69%
Contract time including extension time	1278	0	00%
Every year renewable	1218	99	95.31%

3.6. Claim rejection by insurance company

When an accident occurs, the construction companies claim for replacement payment from the insurance companies. From 100% of the collected data from the respondents for this assessment shows that contractor claims have not been rejected by the insurer

3.7. Reasons of contractor to be insured

According to the respondent response from the questionnaire as shown in figure 1, shows that the driving force for contractors to be insured were legal aspect (LA), new technology (NT), management consideration (MC), safety consideration (SC) and financial consideration (FC) respectively.

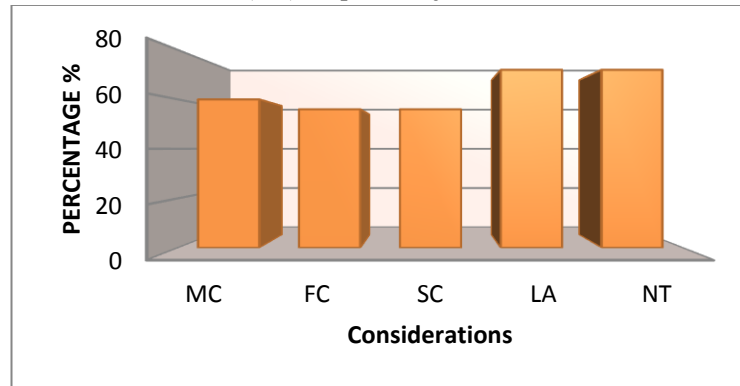


Figure 1. Reason of contractors for being insured

3.8. Insurance policies practiced to contractors by insurer

For each risks encountered in construction projects the insurance companies have specific policies in order to manage it accordingly. Each of these policies has their own general conditions and exclusions. Most of the respondents for this research have low awareness of these construction insurance policies in addition they know only specific type of the insurance policy which they are forced to use for contractual purposes. Considerable number of respondents has no insurance converges and number of contractors doesn't care to have it even though they have the knowhow and the contract obligation. The data collected from the questionnaire shows that most of the insurance company provide insurance coverage for third party insurance, contractor's all risk insurance, contractor's plant and machinery insurance, machinery breakdown insurance and erection all risk insurance coverage respectively in descending order respectively as shown in figure 2.

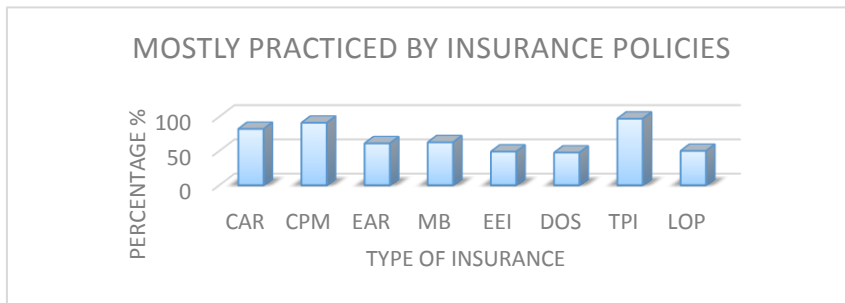


Figure 2. Insurance Policies Practiced to Contractors by insurer

3.9. Major challenges of insurance companies in Ethiopia

Generally, the data that collected by questionnaire from insurance companies are show that the main challenges of insurance companies related to engineering industries are insufficient documentation of customers, low level of awareness towards the benefit of insurance, finance capacity of insurance companies, price under cutting, luck of professionals and the absents of strong industries association.

4. Conclusions and recommendation

4.1. Conclusion

Insurance is risk transfer vehicle. It is a payment of premium in exchange for transferring a particular risk from parties to insurers. But most contractors who responded to this research listed the payment premium as cost disadvantage which come up to be a major challenge to use construction insurance.

most construction projects contractors here in Ethiopia misunderstand the policy provisions they signed to buy and mostly their claims are rejected since it is in appropriate claim they raise and because of cost estimation problems raised between the client and the insurer in addition to that since insurance companies are conditional, contractors and other business firms must have to know the conditions and policies of the insurance firms.

This study found that misunderstanding and low awareness about the benefit to be insured as major problem to implement construction insurance by Ethiopian contractors. Addition to that the problems and challenges encountered in the Ethiopian construction industry for contractors were found that high premium payments, low awareness and misunderstanding of the insurance policies, rejection of claims by the insurer due to fallacy of policies and contract documents and problem of estimating the cost of the damage in good faith. Most of the construction firms don't use specific engineering insurance if they are not obliged by the construction contract document and have low awareness.

Generally, this research found that, in Ethiopia, the application and awareness of construction insurance is very low. Even if the law which forces the implementation of construction insurance in construction projects, written in PPA and FIDIC contract documents, which are highly used by the stakeholders of the construction industry here in regulatory parties did not enforce it.

4.2. Recommendation

Based on the findings of this research, the researcher would like to recommend the following points that should give emphasis in the improvement of construction insurance practiced in public works, considering the negative impact of insurance not being practiced in the construction industry.Ethiopia.

To overcome the problems related with knowledge and awareness about the construction insurance policies that should be practiced in the construction industry the government should develop trainings and awareness creation workshops, enforcing construction insurance in all construction projects and controlling mechanism to enforce the practice of insurance stated in the condition of contract.

The other challenge faced by the construction insurance users is that they may not be insured for the risk they require if the insurance company here in Ethiopia is not reinsured of that specific risk from an international reinsuring company. Due to this the government must provide public reinsurance company for local construction companies to satisfy their insurance need and establish a government agency to take responsibility and overlook the construction insurance practice in Ethiopia

Use the advance payment disbursement schedule for the proper usage of the advance payment to give guaranty bonds and monitor for the contractor to go ahead with estimated project completion time for minimizing problems related with improper usages of the advance payment by the contractors and delay on the project completion time.

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