

**THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA**  
**CENTRAL STATISTICAL AGENCY**

**REPORT ON**  
**CONTRACT CONSTRUCTION SURVEY**  
**2008/09 (2001 E.C.)**

ADDIS ABABA

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# CONTENTS

## PAGE

<b>PART I INTRODUCTION AND OBJECTIVE OF THE SURVEY</b> .....	1
1.1 Introduction.....	1
1.2 Objectives of the Survey.....	3
1.3 Limitations of the Data.....	3
<b>PART II SURVEY METHODOLOGY, DATA COLLECTION &amp; PROCESSING</b> .....	5
2.1 Scope and Coverage.....	5
2.2 Sample Design.....	5
2.3 Concepts and Definitions.....	6
2.4 Organization of Field Work.....	8
2.5 Training of Field Staff.....	9
2.6 Method of Data Collection.....	9
2.7 Data Processing.....	10
a) Editing, Coding & Verification.....	10
b) Data Entry, Cleaning & Tabulation.....	10
<b>PART III SUMMARY OF SURVEY RESULTS</b> .....	11
3.1 Description of Results.....	11
3.2 Statistical Tables (Tables C-1 – C- 35) .....	15
<b>APPENDIX I Questionnaire</b> .....	51
<b>APPENDIX II Estimation procedures for Totals and Sampling Errors</b> .....	66
<b>APPENDIX III Estimates of Standard Errors &amp; Coefficients of Variation</b> .....	69

## PART I

### INTRODUCTION AND OBJECTIVES OF THE SURVEY

#### 1.1 Introduction

**Construction** as defined by the United Nations Statistics Division is “an economic activity directed to the creation, renovation, repair or extension of fixed assets in the form of buildings, land improvements of an engineering nature, and other such engineering constructions as roads, bridges, dams and so forth”. It is a process that consists of the building or assembling of infrastructure in the fields of architecture and civil engineering. It comprises the building of new structures, including site preparation, as well as additions and modifications to existing ones. It also incorporates maintenance, repair, and improvements on these structures. It is the process of adding structure to real property.

**Construction** takes in some common considerations such as design, finance, environment, energy, and other elements. It is procured privately or publicly utilizing various delivery methodologies, including hard bid, negotiated price, traditional dealings, management contracting, etc. As construction codes have come into effect in recent years, new construction technologies and methods have emerged. The newest methods of construction improve efficiency, performance and reduce construction waste.

Far from being a single activity, large scale construction is an achievement of human ability to put up several construction works at the same time in the same / different places which is clearly evident in several cities of the world. Although it has not been statistically substantiated to date, perceptibly, construction is booming in Ethiopia, especially, Addis Ababa in terms of both value and employment.

The construction industry in Ethiopia has been providing a wide variety of buildings, ranging from houses to high rise buildings and from schools and hospitals to factories and shopping centres, and has been carrying out an equally wide variety of engineering construction projects, ranging from highways to hydro – electric dams and irrigation dams / canals.

Construction in Ethiopia has also been affording various job opportunities. It keeps employees working full time, and thus, enables many to work over 40 hours a week to earn more money. The workers in the industry even sometimes work evenings, weekends, and holidays to finish a job or take care of an emergency or offset the disruption caused by rain, snow, wind, etc. since much of the work is done outside or in partially enclosed structures.

Construction has been an invariable part of human life for the provision of shelter and a vital element of economic activity. Houses, apartments, factories, offices, schools, roads, hydro-electric & irrigation dams, and bridges are only some of the products the construction industry has produced so far in Ethiopia. Construction in Ethiopia has continued to expand despite the high costs of inputs and a striking increase in the size and complexity of many individual projects has been recorded. For example, the housing boom saw the development of project housing / real estate / condominium comprising hundreds of units of apartment buildings and complexes and of entire communities and the heavy and civil engineering construction saw the colossal hydro –electric dams of Ethiopia.

The performance of an economy strongly impacts on the construction industry. Housing prices fall and foreclosures of homes rise sharply as the economy falters and vice versa. As the economy expands, the construction industry finds it easy to build in slum areas or renovate buildings that are old, thus scaling up the turnover and absorbing greater workforce. This state of affairs is true to Ethiopia.

While the construction industry is an element of the Growth and Transformation Plan it will certainly continue to expand. As the emerging sector of the Ethiopian economy, the growth of the construction industry has to be statistically validated. But, owing to its nature of operations statistics on construction are hard to come by. The tricky nature of construction makes data on the industry arduous to elicit.

In spite of the fact that construction data collection is difficult, the Central Statistical Agency conducted a survey on the construction industry in 2010 using standard procedures of data collection to inform policy makers, planners, researchers, and business people on the changes taking place in this sector. The survey which referred to the construction condition in 2008/09 (2001 E.C) was aimed at obtaining data on number of enterprises involved, scale of income, employment, value added, and other items of interest for the specified year.

Thus, for the purpose of this survey construction is described as the building of new structures, including site preparation, as well as additions and modifications to existing ones, and maintenance, repair, and improvements on these structures. The survey results are presented in this statistical report. The report comprises three parts. Part I contains Introduction and Objectives of the survey. Part II deals with survey methodology, data collection, and processing and Part III includes the survey results. Questionnaire is presented in Appendix I. Estimates of the standard errors with the corresponding coefficients of variations for key results of the survey are presented in Appendix II and the Estimation procedures and formulation of estimates of totals, and variance in Appendix III.

## **1.2 Objectives of the Survey**

The general objective of Construction Survey is to collect basic quantitative information on the country's construction industry that is essential for planning, policy formulation, monitoring and evaluation of the performance of the industry, and ensuring the expansion of the sector by dealing with the problems that crop up in the course of expansion.

The specific objectives of Construction Survey are to estimate the total number of enterprises involved, employment, income obtained, value of inputs used, and other variables of interest. The specific objectives also enable to establish the number and distribution of enterprises and construction works in the regions and major towns of the country, the sector's contribution to the economy, the investment situation, etc. The report is based on contract construction enterprises dealing with building of new structures, including site preparation, as well as additions and modifications to existing ones, and maintenance, repair, and improvements on these structures.

**1.3 Limitations of the data:** - We encourage users of this report to take into consideration the following points as they impact on the results of the survey:

- In this survey only contract construction is measured. Though there are ten categories of contractors graded by Ministry of Urban Development and Construction from Grade 1 to Grade 10, grade one being the highest (biggest), only grade 1 to 6 were covered in this survey, taking into consideration past experience and difficulty faced locating the smallest companies and obtaining data of meaningful value as these companies normally do not keep books of accounts.
- Because of the difficulty of identifying the study units, own construction is not captured in this survey, though it is understood that it could add value to the sector and the economy as a whole in a substantial way. To give an example, let's say: if a government institution; a company or a household for that matter, has carried out a construction activity, be it new construction or a major maintenance using its own force,

without contracting it to a construction company or a company not registered at the Ministry, then this kind of activity is not captured in this study.

## **PART II**

### **SURVEY METHODOLOGY, DATA COLLECTION & PROCESSING**

#### **2.1 Scope and Coverage**

The scope of construction survey as defined in this report is building of new structures, including site preparation, as well as additions and modifications to existing ones, and maintenance, repair, and improvements on these structures. The range of data items that the 2008/09 (2001 E.C) Construction Survey comprises is number of enterprises involved, employment, income obtained, volume and value of inputs used, distribution of enterprises and construction works in the regions and major towns of the country, the investment situation, and others within the construction sector. Enterprises engaged in at least one or more of construction activities were enumerated and data on the sector was acquired.

#### **2.2 Sample design**

##### **2.2.1 Sampling frame**

The list of construction enterprises by grade was obtained from the Ministry urban development and Construction. The list contained construction enterprises of grades (levels) 1 – 10 but owing to the inaccuracies of their addresses, part of the list containing only those

enterprises of grades 1 - 6 was used as working frame in order to carry out construction enterprises survey for 2008/09.

### 2.2.2 Sample Design

Taking into account the distribution, contribution, and manageability of contract construction enterprises of all grades, the enterprises were categorized into two broad groups (Strata) for the purpose of this survey. Group I constituted enterprises of grades 1 – 4 and Group II included enterprises of grades 5 and 6.

In order to generate information on attributes of contract construction enterprises, all enterprises of grades 1 - 4 in group I were completely covered by the survey. Due to their size and other statistical factors, enterprises of grades 5 and 6 in group II were stratified based on their grades. A single stage stratified systematic random sample design was used to select a sample from the list of enterprises of grades 5 and 6.

The actual coverage for group I was about 82.6% and for group II (for the sample) 79.4%. This is due to the thorny nature of surveying construction enterprises and the inconsistencies of the frame used. As a result, the survey succeeded in covering 81% of the sampled contract construction enterprises. Details are available in the table below to enquire.

**Planned and covered sample construction enterprises by grade**

Category	Grade	Construction Enterprises		percent covered
		Planned to be covered	Actually Covered	
Group I	1 to 4	298	246	82.6%
Group II	5	93	78	83.9%
	6	183	141	77.1%
	Total of	276	219	79.4%
5 and 6				
Total		574	465	81%

### 2.3 Concepts and Definitions

Data items of construction have to be distinctly defined and identified, so that the information about the items becomes accurate and useful. Stating data items and related terms is a prerequisite in the standard procedures of data collection and compilation. The purpose of using standard concepts and definitions is not only to provide quality data but also

to ensure that the right items are enumerated and measured accurately to reflect the construction situation.

Standard concepts and definitions used in a survey help to maintain consistent enumeration and measurement of variables of interest. To achieve this, the CSA communicates concepts and definitions to the field staff through training and instruction manuals. Thus, concepts and definitions used for the purpose of data collection during construction survey included the following.

**Construction** is defined as an economic activity directed to the creation, renovation, repair or extension of fixed assets in the form of buildings, land improvements of an engineering nature, and other such engineering constructions as roads, bridges, dams and so forth.

**General construction** is the construction of dwellings, office buildings, farm buildings, stores, and public & utility buildings, etc., or motorways, streets, bridges, tunnels, railways, airfields, harbours, etc.

**Building construction** is the construction of buildings of all kinds. It includes new work, repair, additions, erection of prefabricated buildings or structures on the site and also construction of temporary nature.

**Road construction** is construction of motorways, streets and bridges only.

**Specialised construction** is construction of parts of buildings and civil engineering works without responsibility for the entire project. It also includes pile driving, foundation work, concrete work, brick laying, stone setting, scaffolding, plumbing, installation of electric air conditioning and heating systems, etc.

**Enterprise**: - is an economic unit producing goods (construction works) and services and owning assets, incurring liabilities and involving in economic activities and in transactions with other economic entities. It is an economic transactor with autonomy in financial and investment decision making as well as allocating resources for the production of goods and services. It may be engaged in one or more productive activities at one or more locations.

**Book of Accounts**: - is a ledger containing details of financial activities of an enterprise including the balance sheet. It is usually opened and closed at the beginning and end of the budget year of the enterprise respectively.

**Paid – up Capital**: - is that part of the issued capital of an enterprise contributed by individual owner or share holders of the enterprise at the start of its operation. Initial capital can be assets or cash.

**Occupation** - a person's usual or principal work or business, especially as a means of earning a living; vocation: Any activity in which a person is engaged. A person's job or work in service of an employer.

**Workforce**: - all the people who work for a particular construction enterprise

**Persons engaged**: - are workers taking part in the activity of the enterprise with or without payment. They can be family members, and apprentices. This concept includes permanent, contract, and temporary workers.

**Employer**: - a person / an enterprise who/which hires at least one employee for their enterprise. Anyone using hired labour for their enterprise and taking part in the productive activity is also included in this category.

**Employee**: - is any worker hired by an enterprise on permanent, contract, and temporary basis. The compensation could be in cash or in kind on a monthly, weekly, and or daily basis.

**Number employed**: - are all employees on the payroll including seasonal/ temporary workers.

**Self employed worker**: - is an individual who works in his own enterprise without hiring anyone. For this survey this concept/definition also includes Enterprises using family labour without payment.

**Unpaid family worker**: - is any family member of the owner of an enterprise working for the enterprise without payment.

**Wages and Salaries**: - are compensations / remunerations made to employees in cash or in kind during the reference year for the work done for the enterprise.

**Investment**: - is putting money into something with the expectation of profit. More specifically, investment is the commitment of money or capital to the purchase of financial instruments or other assets so as to gain profitable returns in the form of interest, dividends, or appreciation of the value of the instrument (capital gains). It is related to saving or deferring consumption

**Fixed assets**: - are assets with a productive life of one year or more, which are intended for the use of construction activity/enterprises.

**Value**:- The monetary worth of an asset, business entity, good sold, service rendered, or liability or obligation acquired.

**Gross value of construction works:** - is the value of all outputs/construction works and services, rent of machinery and equipment, the net change in stocks between the beginning and end of the reference period in the value of construction works and the value of work in progress and other income.

**Intermediate cost:** - is the cost of raw materials/inputs, cost of energy and other costs of items consumed /.

**Value Added (in the National Account Concept, at Factor Cost):** - is the difference between the gross value of income and total intermediate costs and indirect taxes.

## **2.4 Organization of Field Work**

The conduct of a survey cannot be executed without the arrangement of fieldwork. In recognition of this, the organization of fieldwork for this survey has been entrusted to Business Statistics Directorate and the 25 Branch Statistical Offices spread across the regions. All Branch Offices took part in the survey execution especially in recruiting the enumerators, participating in the first stage training, assigning the field staff to their sites of enumeration, supervising the data collection and retrieving completed questionnaires and submitting them to the Head Office for data processing.

The Branch Offices were also responsible for administering the financial and logistic aspects of the survey within their areas of operation. A total of 138 enumerators, 34 field supervisors, 9 statisticians were involved in the data collection where on the average one supervisor was assigned to 3 enumerators for supervision of data collection. All the enumerators were supplied with the necessary survey equipment after the completion of the training to ensure the smooth operation of the survey. To facilitate the data collection activities, about 30 four-wheel drive vehicles were used.

## **2.5 Training of Field Staff**

The execution of a survey and quality of data acquired from the survey highly depend on the type of training given to the enumerators and supervisors and the consequent understanding of the tasks to be performed and the standard procedures to be followed by the enumerators and supervisors in the survey undertaking. The quality and completeness of data are ensured when the training meets its objective of producing responsible and fervent enumerators and supervisors.

In light of this point, single stage training was given to the field staff. The training, which took place at the Head Quarters of CSA and lasted 7 days targeted staff from the Head Office, and

statisticians and senior field supervisors from Branch Statistical Offices. The staff which took part in the training was then assigned to conduct the field work for 30 days in all the twenty-five Branch Statistical Offices.

In the training, the field staff was given detailed classroom instruction on interviewing procedures, how to collect, edit and code data, and verify them, etc. The training also included demonstrations and classroom exercises to reinforce their understanding of concepts, definitions and theories discussed in the classroom with regard to interviewing methods, data collection, and other related activities.

## **2.6 Method of Data Collection**

The construction data for the year 2008/09(2001 E.C) was collected from enterprises involved in the business of construction in urban centres by interviewing the enterprises and recording the data to obtain the required information on construction activities. The data obtained were recorded in a set of forms designed for this purpose. For this purpose on the average an enumerator was assigned to 3 randomly selected contract construction enterprises to enumerate the data required.

In order to identify the enterprises engaged in construction activity to be surveyed, the list of construction enterprises was obtained from the Ministry of Works and Urban Development. The reference year for the survey was 2008/09 (2001 E.C) despite the fact that the survey was conducted in June, 2010.

## **2.7 DATA PROCESSING**

### **a) Editing, Coding and Verification**

Statistical data editing plays an important role in ensuring the quality of the collected survey data. It minimizes the effects of errors introduced while collecting data in the field, hence the need for data editing, coding and verification. Although coding and editing are done by the enumerators and supervisors in the field, respectively, verification of this task is also done at the Head Office comprehensively.

An editing, coding and verification instruction manual was prepared and reproduced for this purpose. Then 36 editors-coders and verifiers were trained for two days in editing, coding and verification using the aforementioned manual as a reference and teaching aid. The completed questionnaires were edited, coded and later verified on a 100 % basis before the

questionnaires were passed over to the data entry unit. The editing, coding and verification exercise of all questionnaires took 60 days.

b) Data Entry, Cleaning and Tabulation

Before data entry, the Business Statistics Directorate of the CSA prepared edit specification for the survey for use on personal computers for data consistency checking purposes. The data on the edited and coded questionnaires were then entered into personal computers. The data were then checked and cleaned using the edit specifications prepared earlier for this purpose. The data entry operation involved 8 data encoders and it took 10 days to finish the job. Finally, summarization of the data was done on personal computers to produce statistical tables as per the tabulation plan.

## **PART III**

### **SUMMARY OF SURVEY RESULTS**

#### **3.1 Description of Results**

The healthy performance of the construction industry fosters economic development. This accomplishment of an economy does not only signify the availability and demand for infrastructure and shelters in the country, but also is an indication of a growing economy. In regard to this, collective efforts are being geared to ensuring reliable supply and distribution of infrastructure for social services and economic and political activities of the country so that public services and utilities are provided to the desired level in Ethiopia.

The major construction items on which data are collected are number, type, and ownership of construction enterprises & volume and value of inputs used in the construction industry, capital; practice of keeping book of accounts, number of persons engaged, & remuneration of employees; investment, value of fixed assets, gross value of construction works, value added, etc.

In the statistical tables, these data items are categorized into various groups for simplicity of description, clarity, and comparison purposes. In this regard, the following statistical tables attempt to paint a picture of construction activities in 2008/09 (2001E.F.Y.) in Ethiopia.

#### **Ownership**

Tables C-1, C-2 and C-3 show type of ownership (legal status) of construction enterprises by capital and construction activity. Table C-1 shows that most (98.4%) of the construction enterprises were privately owned and 62.7% and 35.3% of all construction enterprises were involved in Building and General Constructions, respectively, in 2008/09. In Table C-2, it is indicated that 79.7% of the construction enterprises were individually owned and 13.8% were private limited in the same year.

Most of the paid-up capital (82.0%) was reported for the private construction enterprises in 2008/09 as shown in Table C-1. More than 22.5% of the estimated construction enterprises reported an end year capital of between 500,001 and 1,000,000 Birr, 20.5% stated an end year capital of between one million and two and half million, and 17.8% of the enterprises reported an end year capital of between 250,000 and 500, 000 Birr for the same year. Only 4.2% of the

construction enterprises reported an end year capital of over 20 million Birr in 2008/09 as illustrated in Table C-3. Further details are available in the tables.

### **Practice of keeping book of accounts**

Table C-4 demonstrates the distinction between those construction enterprises which kept books of accounts and those which did not. More than 92.6% of the construction enterprises kept books of accounts in 2008/09. Of all the construction enterprises which kept books of accounts about 96.2% used the Ethiopian budget year to keep their books of accounts. All public construction enterprises did keep books of accounts using the Ethiopian budget year calendar. Details are shown in the table.

### **Problems faced by construction enterprises**

The number of construction enterprises and their percentage distribution by first major operational problem faced in 2008/09 is displayed in Table C-5. More than 59% of the enterprises reported shortage of raw materials as a first major problem followed by 7.8% which reported increase in input prices as a first major problem and 7.3% which described failure to acquire projects as a first major problem in 2008/09. More details about the problems faced are presented in the table.

### **Persons engaged, wages & salaries, pensions & insurance, and other benefits**

The workforce engaged in the construction industry and the remuneration offered to them in the various enterprises are portrayed in Tables C-6 – C-11. Table C-6 shows that more than a quarter of a million and 171 thousand persons were engaged in various construction activities during the peak and dip periods of 2008/09, respectively, and the sum of wages and salaries remunerated to them amounted to more than 1.8 billion in the same year. Tables C-8 and C-9 also give similar information on wages and salaries but in different perspective. Table C-7 shows the number of persons engaged in the construction industry by occupation in the same reference year. About 48.2% and 47.3% of the persons engaged were involved in the General and Building construction activities, respectively, in the same year. Table C-10 indicates the number of construction enterprises by size of work force. About 40.6% of all construction enterprises reported having a workforce of size 20-49 persons each. Similarly, 38.3% of the enterprises gave an account of their workforce of size 50 persons and over each. Table C-11 contains parallel information to that of Table C-7 but of different dimension. Additional details are in the tables.

### **Value of Construction works**

Tables C-12 – C-25 except Tables C-20 and C-21 carry information on value of construction works by construction activity, type of construction, ownership, components, and other aspects of categorization. Table C-12 gives a hint about the total value of construction works in 2008/09 which was reported to be more than 17 billion of which 93.1% was contributed by private enterprises. Of all the total value of construction works about 46.7% was attributed to other construction works like roads, bridges, air fields, dams, etc. and 44.3% was credited to non-residential buildings such as commercial, industrial, educational, and health buildings in the same reference year. Tables C-16 – C-25 with the exception of Tables C-20 and C-21 give highlights on gross value of construction works, components of gross value, expenditures on construction, and other measurements of value for the same year. Extra details are available in the tables for users.

### **Value added**

Tables C-20 and C-21 present value added by construction enterprises as classified by workforce and capital. Table C-20 indicates that of the total value added (more than 7.8 billion Birr) by the construction enterprises under study 95.2% was reported by enterprises of workforce of size 50 persons and over in 2008/09. About 92.8% of the total value added was that of the private enterprises. General Construction and Building Construction activities accounted for 61.4% and 34.7% of the value added, respectively, for the same year. Table C-21 gives an idea about value added by construction enterprises as ordered by capital. About 61.9% of the value added was accounted for by enterprises reporting a capital of 20 million Birr and over each. About 27.7% of the value added was contributed by enterprises reporting a capital of under 5 million Birr each.

### **Expenditure**

Tables C-26 and C-27 convey the amount and type of expenditure made by construction enterprises in 2008/09. As indicated in Table C-26 about 67.0% of the total expenditure was devoted to the purchase of raw materials; 11.5% to non-construction services received and 7.9% to construction related services received in the same year. Table C-27 displays the expenditure of construction enterprises on energy for the same reference period. It shows that 87.7% of the total expenditure on energy was allocated for fuel and lubricants in 2008/09. Further details on expenditure are available in the two tables.

### **Fixed assets of and Investment**

Tables C-28 – C-33 exhibit the value of fixed assets, capital expenditure and investment as compiled in different dimensions. Table C-28 shows the value of fixed assets and capital expenditure by construction activity and ownership of enterprises for the year 2008/09. The

construction enterprises reported fixed assets valued at nearly 5 billion Birr and new capital expenditure that amounted to almost 1.5 billion Birr for 2008/09. Table C-29 demonstrates investment in fixed assets of construction enterprises by source of fund. As indicated in the table, in 2008/09, 71.0% of the fund invested in fixed assets of construction enterprises came from own source and 19.4% from bank loan. Tables C-30 – C-33 portray value of fixed assets and new capital expenditure in various perspectives. More details are available in the tables.

Tables C-34 and C-35 offer supplementary information that users can explore if and when they want to.

## **STATISTICAL TABLES**

TABLE C-1: PAID -UP CAPITAL OF CONSTRUCTION ENTERPRISES BY TYPE OF OWNERSHIP AND MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

MAIN CONSTRUCTION ACTIVITY	NUMBER OF ENTERPRISES			PAID-UP CAPITAL '000 BIRR			
				PUBLIC	PRIVATE		TOTAL
	PUBLIC	PRIVATE	TOTAL		PUBLIC	ETHIOPIAN	
GENERAL CONSTRUCTION	10	479	489	3,620,430	9,784,491	563,555	13,968,476
BUILDING CONSTRUCTION	11	857	868	1,251	4,945,119	42,417	4,988,787
ROAD CONSTRUCTION	-	11	11	-	1,098,936	-	1,098,936
SPECIALIZED CONSTRUCTION	-	5	5	-	1,477	-	1,477
OTHERS	-	11	11	-	10,341	-	10,341
<b>TOTAL</b>	<b>22</b>	<b>1,362</b>	<b>1,384</b>	<b>3,621,681</b>	<b>15,840,364</b>	<b>605,972</b>	<b>20,068,017</b>

TABLE C-2: NUMBER OF CONSTRUCTION ENTERPRISES BY TYPE OF OWNERSHIP AND MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

MAIN CONSTRUCTION ACTIVITY	TYPE OF OWNERSHIP						TOTAL
	PUBLIC	INDIVIDUAL OWNERSHIP	PARTENER-SHIP	SHARE COMPANY	PRIVATE LIMITED	OTHERS	
GENERAL CONSTRUCTION	10	416	10	3	44	5	489
BUILDING CONSTRUCTION	11	664	<b>37</b>	12	143	-	868
ROAD CONSTRUCTION	-	6	-	-	5	-	11
SPECIALIZED CONSTRUCTION	-	5	-	-	-	-	5
OTHERS	-	11	-	-	-	-	11
<b>TOTAL</b>	<b>22</b>	<b>1,103</b>	<b>48</b>	<b>15</b>	<b>192</b>	<b>5</b>	<b>1,384</b>

TABLE C-3: NUMBER OF CONSTRUCTION ENTERPRISES BY END YEAR CAPITAL, OWNERSHIP AND MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

MAIN CONSTRUCTION ACTIVITY	END YEAR CAPITAL IN BIRR										TOTAL
	UP TO 100,000	100,001-250,000	250,001-500,000	500,001-1,000,000	1,000,001-2,500,000	2,500,001-5,000,000	5,000,001-10,000,000	10,000,001-15,000,000	15,000,001-20,000,000	OVER 20,000,000	
<b>PUBLIC AND PRIVATE</b>	81	198	247	312	284	122	50	22	10	58	1,384
GENERAL CONSTRUCTION	32	112	87	109	61	35	14	5	3	31	489
BUILDING CONSTRUCTION	49	81	155	203	212	87	35	17	7	22	868
ROAD CONSTRUCTION	-	-	-	-	5	1	1	-	-	4	11
SPECIALIZED CONSTRUCTION	-	-	5	-	-	-	-	-	-	-	5
OTHERS	-	5	-	-	5	-	-	-	-	-	11
<b>PUBLIC</b>	-	-	10	-	1	-	1	1	-	8	22
GENERAL CONSTRUCTION	-	-	-	-	-	-	1	1	-	8	10
BUILDING CONSTRUCTION	-	-	10	-	1	-	-	-	-	-	11
ROAD CONSTRUCTION	-	-	-	-	-	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-
<b>PRIVATE</b>	81	198	236	312	283	122	49	21	10	49	1,362
GENERAL CONSTRUCTION	32	112	87	109	61	35	13	4	3	23	479
BUILDING CONSTRUCTION	49	81	145	203	211	87	35	17	7	22	857
ROAD CONSTRUCTION	-	-	-	-	5	1	1	-	-	4	11
SPECIALIZED CONSTRUCTION	-	-	5	-	-	-	-	-	-	-	5
OTHERS	-	5	-	-	5	-	-	-	-	-	11

TABLE C-4: NUMBER OF CONSTRUCTION ENTERPRISES REPORTING BOOKS OF ACCOUNTS BY  
CALENDAR YEAR AND MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

MAIN CONSTRUCTION ACTIVITY	ENTERPRISES WITH BOOKS OF ACCOUNTS					ENTERPRISES WITH NO BOOKS OF ACCOUNTS	GRAND TOTAL
	ETHIOPIAN BUDGET YEAR	ETHIOPIAN CALENDAR YEAR	GREGORIAN CALENDAR	OTHERS	TOTAL		
<b>PUBLIC AND PRIVATE</b>	1,233	18	20	11	1,282	102	1,384
GENERAL CONSTRUCTION	421	6	3	10	441	48	489
BUILDING CONSTRUCTION	786	12	16	1	814	54	868
ROAD CONSTRUCTION	10	-	1	-	11	-	11
SPECIALIZED CONSTRUCTION	5	-	-	-	5	-	5
OTHERS	11	-	-	-	11	-	11
<b>PUBLIC</b>	22	-	-	-	22	-	22
GENERAL CONSTRUCTION	10	-	-	-	10	-	10
BUILDING CONSTRUCTION	11	-	-	-	11	-	11
ROAD CONSTRUCTION	-	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-
<b>PRIVATE</b>	1,211	18	20	11	1,260	102	1,362
GENERAL CONSTRUCTION	411	6	3	10	430	48	479
BUILDING CONSTRUCTION	774	12	16	1	803	54	857
ROAD CONSTRUCTION	10	-	1	-	11	-	11
SPECIALIZED CONSTRUCTION	5	-	-	-	5	-	5
OTHERS	11	-	-	-	11	-	11



TABLE C-6: NUMBER OF PERSONS ENGAGED IN CONSTRUCTION, WAGES AND SALARIES BY SEX, OWNERSHIP, AND MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

MAIN CONSTRUCTION ACTIVITY	NUMBER OF ENTERPRISES	NUMBER OF PERSONS ENGAGED			NUMBER OF EMPLOYEES	WAGES AND SALARIES '000 BIRR			NUMBER OF PERSONS ENGAGED DURING PEAK PERIOD
		MALE	FEMALE	TOTAL		MALE	FEMALE	TOTAL	
<b>PUBLIC AND PRIVATE</b>	1,384	125,670	46,295	171,965	170,311	1,421,376	429,232	1,850,608	252,977
GENERAL CONSTRUCTION	489	61,407	21,469	82,876	82,413	802,841	216,470	1,019,311	107,360
BUILDING CONSTRUCTION	868	58,104	23,172	81,276	80,103	563,305	200,028	763,333	136,355
ROAD CONSTRUCTION	11	5,654	1,590	7,245	7,244	51,975	12,382	64,357	8,057
SPECIALIZED CONSTRUCTION	5	345	15	359	359	2,037	87	2,124	862
OTHERS	11	160	48	209	193	1,218	266	1,484	342
<b>PUBLIC</b>	22	9,165	1,753	10,918	10,912	79,455	15,027	94,482	13,143
GENERAL CONSTRUCTION	10	8,950	1,666	10,617	10,616	77,530	14,704	92,234	12,395
BUILDING CONSTRUCTION	11	215	86	301	296	1,925	323	2,248	748
ROAD CONSTRUCTION	-	-	-	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-
<b>PRIVATE</b>	1,362	116,505	44,542	161,047	159,400	1,341,921	414,204	1,756,126	239,833
GENERAL CONSTRUCTION	479	52,457	19,803	72,260	71,797	725,311	201,766	927,077	94,966
BUILDING CONSTRUCTION	857	57,889	23,086	80,975	79,807	561,380	199,704	761,085	135,607
ROAD CONSTRUCTION	11	5,654	1,590	7,245	7,244	51,975	12,382	64,357	8,057
SPECIALIZED CONSTRUCTION	5	345	15	359	359	2,037	87	2,124	862
OTHERS	11	160	48	209	193	1,218	266	1,484	342

TABLE C-7: NUMBER OF PERSONS ENGAGED IN CONSTRUCTION BY OCCUPATION AND  
MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

MAIN CONSTRUCTION ACTIVITY	NUMBER OF ENTERPRISES	OCCUPATION			
		WORKING PROPRIETORS, ACTIVE PARTNERS & FAMILY MEMBERS	OPERATIVES	OTHER EMPLOYEES	TOTAL
<b>PUBLIC AND PRIVATE</b>	1,384	1,654	145,216	25,095	171,965
GENERAL CONSTRUCTION	489	464	68,650	13,763	82,876
BUILDING CONSTRUCTION	868	1,173	70,410	9,693	81,276
ROAD CONSTRUCTION	11	1	5,705	1,538	7,245
SPECIALIZED CONSTRUCTION	5	-	295	64	359
OTHERS	11	16	155	37	209
<b>PUBLIC</b>	22	6	9,336	1,575	10,918
GENERAL CONSTRUCTION	10	1	9,088	1,528	10,617
BUILDING CONSTRUCTION	11	5	249	47	301
ROAD CONSTRUCTION	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-
OTHERS	-	-	-	-	-
<b>PRIVATE</b>	1,362	1,647	135,880	23,520	161,047
GENERAL CONSTRUCTION	479	463	59,562	12,235	72,260
BUILDING CONSTRUCTION	857	1,168	70,162	9,646	80,975
ROAD CONSTRUCTION	11	1	5,705	1,538	7,245
SPECIALIZED CONSTRUCTION	5	-	295	64	359
OTHERS	11	16	155	37	209

TABLE C-8: GROSS WAGES AND SALARIES, OTHER EMPLOYEES' BENEFITS, AND PENSION OF CONSTRUCTION WORKERS BY MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

MAIN CONSTRUCTION ACTIVITY	NUMBER OF ENTERPRISES	GROSS WAGES AND SALARIES	OTHER EMPLOYEES' BENEFITS	TOTAL	PENSION AND INSURANCE
<b>PUBLIC AND PRIVATE</b>	1,384	1,850,607,578	99,583,751	1,950,191,329	6,213,880
GENERAL CONSTRUCTION	489	1,019,310,504	87,842,992	1,107,153,496	4,103,211
BUILDING CONSTRUCTION	868	763,332,690	7,538,864	770,871,555	693,983
ROAD CONSTRUCTION	11	64,356,874	3,943,012	68,299,886	1,416,686
SPECIALIZED CONSTRUCTION	5	2,123,595	253,535	2,377,130	-
OTHERS	11	1,483,915	5,348	1,489,263	-
<b>PUBLIC</b>	22	94,481,997	12,183,358	106,665,354	87,096
GENERAL CONSTRUCTION	10	92,233,854	12,183,358	104,417,212	87,096
BUILDING CONSTRUCTION	11	2,248,143	-	2,248,143	-
ROAD CONSTRUCTION	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-
OTHERS	-	-	-	-	-
<b>PRIVATE</b>	1,362	1,756,125,582	87,400,393	1,843,525,975	6,126,784
GENERAL CONSTRUCTION	479	927,076,650	75,659,634	1,002,736,285	4,016,115
BUILDING CONSTRUCTION	857	761,084,548	7,538,864	768,623,412	693,983
ROAD CONSTRUCTION	11	64,356,874	3,943,012	68,299,886	1,416,686
SPECIALIZED CONSTRUCTION	5	2,123,595	253,535	2,377,130	-
OTHERS	11	1,483,915	5,348	1,489,263	-

TABLE C-9: GROSS WAGES AND SALARIES OF CONSTRUCTION WORKERS BY OCCUPATION, SEX, AND MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

'000 BIRR

MAIN CONSTRUCTION ACTIVITY	NUMBER OF ENTERPRISES	OCCUPATION						TOTAL
		OPERATIVES			OTHER EMPLOYEES			
		MALE	FEMALE	BOTH SEXES	MALE	FEMALE	BOTH SEXES	
<b>PUBLIC AND PRIVATE</b>	1,384	1,032,344	302,174	1,334,518	389,032	127,058	516,089	1,850,608
GENERAL CONSTRUCTION	489	647,871	156,486	804,357	154,970	59,984	214,954	1,019,311
BUILDING CONSTRUCTION	868	343,176	134,656	477,832	220,129	65,372	285,501	763,333
ROAD CONSTRUCTION	11	40,081	10,766	50,847	11,894	1,616	13,510	64,357
SPECIALIZED CONSTRUCTION	5	283	-	283	1,754	87	1,841	2,124
OTHERS	11	934	266	1,199	285	-	285	1,484
<b>PUBLIC</b>	22	69,523	10,131	79,654	9,932	4,897	14,828	94,482
GENERAL CONSTRUCTION	10	67,740	9,836	77,576	9,789	4,868	14,657	92,234
BUILDING CONSTRUCTION	11	1,783	295	2,077	142	29	171	2,248
ROAD CONSTRUCTION	-	-	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-
<b>PRIVATE</b>	1,362	962,821	292,043	1,254,864	379,100	122,161	501,261	1,756,126
GENERAL CONSTRUCTION	479	580,131	146,650	726,780	145,180	55,116	200,296	927,077
BUILDING CONSTRUCTION	857	341,393	134,361	475,754	219,987	65,343	285,330	761,085
ROAD CONSTRUCTION	11	40,081	10,766	50,847	11,894	1,616	13,510	64,357
SPECIALIZED CONSTRUCTION	5	283	-	283	1,754	87	1,841	2,124
OTHERS	11	934	266	1,199	285	-	285	1,484

TABLE C-10: NUMBER OF CONSTRUCTION ENTERPRISES BY SIZE OF WORKFORCE AND  
MAIN CONSTRUCTION ACTIVITY , 2001 E.F.Y. (2008/09)

MAIN CONSTRUCTION ACTIVITY	SIZE OF WORKFORCE			
	UP TO 19 PERSONS	20 - 49 PERSONS	50 PERSONS & OVER	TOTAL
<b>PUBLIC AND PRIVATE</b>	292	562	530	1,384
GENERAL CONSTRUCTION	96	197	196	489
BUILDING CONSTRUCTION	191	358	319	868
ROAD CONSTRUCTION	-	1	10	11
SPECIALIZED CONSTRUCTION	-	-	5	5
OTHERS	5	5	-	11
<b>PUBLIC</b>	5	6	10	22
GENERAL CONSTRUCTION	-	-	10	10
BUILDING CONSTRUCTION	5	6	-	11
ROAD CONSTRUCTION	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-
OTHERS	-	-	-	-
<b>PRIVATE</b>	287	555	520	1,362
GENERAL CONSTRUCTION	96	197	185	479
BUILDING CONSTRUCTION	186	352	319	857
ROAD CONSTRUCTION	-	1	10	11
SPECIALIZED CONSTRUCTION	-	-	5	5
OTHERS	5	5	-	11

TABLE C-11: NUMBER OF CONSTRUCTION ENTERPRISES AND PERSONS ENGAGED BY MAIN CONSTRUCTION ACTIVITY AND CAPITAL, 2001 E.F.Y. (2008/09)

MAIN CONSTRUCTION ACTIVITY	NUMBER OF ENTERPRISES						NUMBER OF PERSONS ENGAGED					
	CAPITAL IN MILLION BIRR											
	UNDER 5	5 AND UNDER 10	10 AND UNDER 15	15 AND UNDER 20	20 AND OVER	TOTAL	UNDER 5	5 AND UNDER 10	10 AND UNDER 15	15 AND UNDER 20	20 AND OVER	TOTAL
<b>PUBLIC AND PRIVATE</b>	#####	50	23	10	58	1,384	71,241	#####	6,018	4,118	76,034	#####
GENERAL CONSTRUCTION	435	13	6	3	31	489	23,039	2,219	3,329	484	53,806	82,876
BUILDING CONSTRUCTION	786	36	17	7	22	868	47,131	#####	2,689	3,634	15,515	81,276
ROAD CONSTRUCTION	6	1	-	-	4	11	503	28	-	-	6,714	7,245
SPECIALIZED CONSTRUCTION	5	-	-	-	-	5	359	-	-	-	-	359
OTHERS	11	-	-	-	-	11	209	-	-	-	-	209
<b>PUBLIC</b>	11	-	2	-	8	22	301	-	2,491	-	8,126	10,918
GENERAL CONSTRUCTION	-	-	2	-	8	10	-	-	2,491	-	8,126	10,617
BUILDING CONSTRUCTION	11	-	-	-	-	11	301	-	-	-	-	301
ROAD CONSTRUCTION	-	-	-	-	-	-	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
<b>PRIVATE</b>	#####	50	21	10	49	1,362	70,939	#####	3,527	4,118	67,909	#####
GENERAL CONSTRUCTION	435	13	4	3	23	479	23,039	2,219	838	484	45,680	72,260
BUILDING CONSTRUCTION	775	36	17	7	22	857	46,830	#####	2,689	3,634	15,515	80,975
ROAD CONSTRUCTION	6	1	-	-	4	11	503	28	-	-	6,714	7,245
SPECIALIZED CONSTRUCTION	5	-	-	-	-	5	359	-	-	-	-	359
OTHERS	11	-	-	-	-	11	209	-	-	-	-	209

TABLE C-12: VALUE OF CONSTRUCTION OUTPUT BY MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

'000 BIRR

MAIN CONSTRUCTION ACTIVITY	NUMBER OF ENTERPRISES	VALUE OF CONSTRUCTION OUT PUT	VALUE OF NEW CONTRACTS	VALUE OF CONTRACTS CANCELLED OR REDUCED
<b>PUBLIC AND PRIVATE</b>	1,384	17,059,097	8,858,331	1,265,740
GENERAL CONSTRUCTION	489	9,729,221	4,501,858	1,051,194
BUILDING CONSTRUCTION	868	6,721,039	3,932,527	147,546
ROAD CONSTRUCTION	11	586,921	405,503	67,000
SPECIALIZED CONSTRUCTION	5	10,699	-	-
OTHERS	11	11,217	18,443	-
<b>PUBLIC</b>	22	1,183,100	495,616	-
GENERAL CONSTRUCTION	10	1,155,926	493,215	-
BUILDING CONSTRUCTION	11	27,174	2,401	-
ROAD CONSTRUCTION	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-
OTHERS	-	-	-	-
<b>PRIVATE</b>	1,362	15,875,997	8,362,715	1,265,740
GENERAL CONSTRUCTION	479	8,573,295	4,008,643	1,051,194
BUILDING CONSTRUCTION	857	6,693,865	3,930,126	147,546
ROAD CONSTRUCTION	11	586,921	405,503	67,000
SPECIALIZED CONSTRUCTION	5	10,699	-	-
OTHERS	11	11,217	18,443	-

TABLE C-13: VALUE OF CONSTRUCTION OUTPUT BY TYPE OF CONSTRUCTION  
PUBLIC AND PRIVATE, 2001 E.F.Y. (2008/09)

'000 BIRR

TYPE OF CONSTRUCTION	VALUE OF CONSTRUCTION OUTPUT	VALUE OF NEW CONTRACTS	VALUE OF CONTRACTS CANCELLED OR REDUCED
<b>RESIDENTIAL BUILDINGS.....</b>	1,499,450	1,277,502	63,791
<b>NON RESIDENTIAL BUILDINGS.....</b>	7,552,279	3,159,783	144,494
COMMERCIAL BUILDINGS.....	1,179,365	272,202	44,417
INDUSTRIAL BUILDINGS.....	239,906	52,491	-
EDUCATIONAL BUILDINGS.....	2,962,534	1,095,506	44,580
HEALTH BUILDINGS.....	2,264,734	830,533	34,179
<b>Other non residential buildings.....</b>	905,739	909,050	21,319
<b>OTHER CONSTRUCTION WORKS.....</b>	7,959,494	4,388,306	1,057,163
Roads.....	4,087,687	3,913,049	1,009,097
Bridges.....	98,516	120,763	24,194
Air Fields .....	138,344	198,185	-
<b>Dams.....</b>	2,738,640	2,371	-
pipe lines.....	287,447	92,044	-
Others .....	608,858	61,894	23,873
<b>WORK DONE AS SUB CONTRACTOR.....</b>	47,875	32,739	291
<b>TOTAL</b>	<b>17,059,097</b>	<b>8,858,331</b>	<b>1,265,740</b>

TABLE C-14: VALUE OF CONSTRUCTION OUTPUT BY TYPE OF CONSTRUCTION , 2001 E.F.Y. (2008/09)  
PUBLIC

'000 BIRR

TYPE OF CONSTRUCTION	VALUE OF CONSTRUCTION OUTPUT	VALUE OF NEW CONTRACTS	VALUE OF CONTRACTS CANCELLED OR REDUCED
<b>RESIDENTIAL BUILDINGS.....</b>	122,287	107,699	-
<b>NON RESIDENTIAL BULDINGS.....</b>	647,439	10,311	-
COMMERCIAL BUILDINGS.....	353,271	-	-
INDUSTRIAL BUILDINGS.....	28,386	-	-
EDUCATIONAL BUILDINGS.....	100,930	-	-
HEALTH BUILDINGS.....	75,822	1,248	-
<b>Other non residential buildings..</b>	89,031	9,063	-
<b>OTHER CONSTRUCTION WORKS.....</b>	393,018	377,606	-
Roads.....	57,853	206,202	-
Bridges.....	-	-	-
Air Fields .....	57,441	164,555	-
<b>Dams.....</b>	-	-	-
pipe lines.....	59,086	-	-
Others .....	218,638	6,849	-
<b>WORK DONE AS SUB CONTRACTOR.....</b>	20,356	-	-
<b>TOTAL</b>	<b>1,183,100</b>	<b>495,616</b>	<b>-</b>

TABLE C-15: VALUE OF CONSTRUCTION OUTPUT BY TYPE OF CONSTRUCTION , 2001 E.F.Y. (2008/09)

PRIVATE

'000 BIRR

TYPE OF CONSTRUCTION	VALUE OF CONSTRUCTION OUTPUT	VALUE OF NEW CONTRACTS	VALUE OF CONTRACTS CANCELLED OR REDUCED
<b>RESIDENTIAL BUILDINGS.....</b>	1,473,164	1,169,804	63,791
<b>NON RESIDENTIAL BULDINGS.....</b>	6,898,194	3,149,473	144,494
COMMERCIAL BUILDINGS.....	821,973	272,202	44,417
INDUSTRIAL BUILDINGS.....	206,608	52,491	-
EDUCATIONAL BUILDINGS.....	2,860,540	1,095,506	44,580
HEALTH BUILDINGS.....	2,177,925	829,285	34,179
<b>Other non residential buildings..</b>	831,148	899,987	21,319
<b>OTHER CONSTRUCTION WORKS.....</b>	7,565,307	4,010,700	1,057,163
Roads.....	4,024,632	3,706,847	1,009,097
Bridges.....	103,719	120,763	24,194
Air Fields .....	80,903	33,630	-
<b>Dams.....</b>	2,738,640	2,371	-
pipe lines.....	223,591	92,044	-
Others .....	393,822	55,045	23,873
<b>WORK DONE AS SUB CONTRACTOR.....</b>	28,581	32,739	291
<b>TOTAL</b>	<b>15,965,245</b>	<b>8,362,715</b>	<b>1,265,740</b>

TABLE C-16: NUMBER OF ENTERPRISES, GROSS VALUE OF CONSTRUCTION OUT PUT, CONSTRUCTION AND NON-CONSTRUCTION EXPENSES, INDIRECT TAXES  
NET AND CENSUS VALUE ADDED IN THE NATIONAL ACCOUNT CONCEPT BY MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

IN BIRR

MAIN CONSTRUCTION ACTIVITY	NUMBER OF ENTERPRISES	GROSS VALUE OF CONSTRUCTION OUTPUT	CONSTRUCTION & NON-CONSTRUCTION EXPENDITURE	INDIRECT TAXES	VALUE ADDED IN THE NATIONAL ACCOUNT CONCEPT	
					AT MARKET PRICE	AT FACTOR COST
<b>PUBLIC AND PRIVATE</b>	1,384	17,396,002,806	9,580,986,939	1,312,315,987	7,813,107,292	6,500,791,305
GENERAL CONSTRUCTION	489	9,925,431,679	5,128,287,633	736,650,142	4,796,999,311	4,060,349,169
BUILDING CONSTRUCTION	868	6,851,399,167	4,140,174,799	525,704,974	2,709,828,283	2,184,123,310
ROAD CONSTRUCTION	11	595,378,943	297,556,148	49,097,428	297,455,040	248,357,612
SPECIALIZED CONSTRUCTION	5	12,575,838	9,145,757	158,122	3,430,081	3,271,959
OTHERS	11	11,217,179	5,822,603	705,321	5,394,576	4,689,255
<b>PUBLIC</b>	22	1,196,988,120	642,184,976	136,928,692	554,803,144	417,874,452
GENERAL CONSTRUCTION	10	1,169,813,956	620,445,071	133,988,721	549,368,885	415,380,164
BUILDING CONSTRUCTION	11	27,174,165	21,739,905	2,939,971	5,434,259	2,494,288
ROAD CONSTRUCTION	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-
<b>PRIVATE</b>	1,362	16,199,014,685	8,938,801,963	1,175,387,295	7,258,304,147	6,082,916,853
GENERAL CONSTRUCTION	479	8,755,617,723	4,507,842,562	602,661,421	4,247,630,426	3,644,969,005
BUILDING CONSTRUCTION	857	6,824,225,003	4,118,434,893	522,765,002	2,704,394,024	2,181,629,022
ROAD CONSTRUCTION	11	595,378,943	297,556,148	49,097,428	297,455,040	248,357,612
SPECIALIZED CONSTRUCTION	5	12,575,838	9,145,757	158,122	3,430,081	3,271,959
OTHERS	11	11,217,179	5,822,603	705,321	5,394,576	4,689,255

TABLEC-17: ESTEMATE OF GROSS VALUE OF CONSTRUCTION OUTPUT,CONSTRUCTION AND NON-CONSTRUCTION EXPENDITURE,INDIRECT TAXES NET AND CENSUS VALUE ADDED IN THE NATIONAL ACCOUNT CONCEPT BY  
IN BIRR

MAIN CONSTRUCTION ACTIVITY	GROSS VALUE OF CONSTRUCTION OUTPUT			CONSTRUCTION & NON-CONSTRUCTION EXPENSES			INDIRECT TAXES			VALUE ADDED IN THE NATIONAL ACCOUNT CONCEPT					
										AT MARKET PRICE			AT FACTOR COST		
	Total estimate	Standard error	cv (%)	Total estimate	Standard error	cv (%)	Total estimate	Standard error	cv (%)	Total estimate	Standard error	cv (%)	Total estimate	Standard error	cv (%)
PUBLIC AND PRIVATE	17,396,002,806	445,328,498	2.56	9,580,986,939	184,433,495	1.92	1,312,315,987	40,101,378	3.06	7,813,107,292	261,947,558	3.35	6,500,791,305	221,895,137	3.41
GENERAL CONSTRUCTION	9,925,431,679	456,487,768	4.60	5,128,287,633	188,811,974	3.68	736,650,142	40,713,474	5.53	4,796,999,311	268,171,712	5.59	4,060,349,169	227,461,825	5.60
BUILDING CONSTRUCTION	6,851,399,167	21,673,891	0.32	4,140,174,799	13,220,219	0.32	525,704,974	2,826,170	0.54	2,709,828,283	8,419,196	0.31	2,184,123,310	5,624,540	0.26
ROAD CONSTRUCTION	595,378,943	-	-	297,556,148	-	-	49,097,428	-	-	297,455,040	-	-	248,357,612	-	-
SPECIALIZED CONSTRUCTION	12,575,838	-	-	9,145,757	-	-	158,122	-	-	3,430,081	-	-	3,271,959	-	-
OTHERS	11,217,179	-	-	5,822,603	-	-	705,321	-	-	5,394,576	-	-	4,689,255	-	-
PUBLIC	1,196,988,120	439,671,150	36.73	642,184,976	187,280,404	29.16	136,928,692	38,458,493	28.09	554,803,144	252,390,746	45.49	417,874,452	213,932,253	51.20
GENERAL CONSTRUCTION	1,169,813,956	439,671,150	37.58	620,445,071	187,280,404	30.18	133,988,721	38,458,493	28.70	549,368,885	252,390,746	45.94	415,380,164	213,932,253	51.50
BUILDING CONSTRUCTION	27,174,165	-	-	21,739,905	-	-	2,939,971	-	-	5,434,259	-	-	2,494,288	-	-
ROAD CONSTRUCTION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PRIVATE	16,199,014,685	16,331,477	0.10	8,938,801,963	9,284,057	0.10	1,175,387,295	1,633,050	0.14	7,258,304,147	25,537,042	0.35	6,082,916,853	23,661,939	0.39
GENERAL CONSTRUCTION	8,755,617,723	34,217,939	0.39	4,507,842,562	3,851,575	0.09	602,661,421	4,466,334	0.74	4,247,630,426	31,501,256	0.74	3,644,969,005	27,054,296	0.74
BUILDING CONSTRUCTION	6,824,225,003	21,673,891	0.32	4,118,434,893	13,220,219	0.32	522,765,002	2,826,170	0.54	2,704,394,024	8,419,196	0.31	2,181,629,022	5,624,540	0.26
ROAD CONSTRUCTION	595,378,943	-	-	297,556,148	-	-	49,097,428	-	-	297,455,040	-	-	248,357,612	-	-
SPECIALIZED CONSTRUCTION	12,575,838	-	-	9,145,757	-	-	158,122	-	-	3,430,081	-	-	3,271,959	-	-
OTHERS	11,217,179	-	-	5,822,603	-	-	705,321	-	-	5,394,576	-	-	4,689,255	-	-

TABLE C-18: GROSS VALUE OF CONSTRUCTION OUTPUT, BY SIZE OF WORKFORCE AND MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

'000 BIRR

MAIN CONSTRUCTION ACTIVITY	NUMBER OF ENTERPRISES	SIZE OF WORKFORCE			
		UP TO 19 PERSONS	20 - 49 PERSONS	50 PERSONS AND OVER	TOTAL
<b>PUBLIC AND PRIVATE</b>	1,384	312,217	1,097,442	15,986,344	17,396,003
GENERAL CONSTRUCTION	489	85,419	304,742	9,535,270	9,925,432
BUILDING CONSTRUCTION	868	218,813	769,459	5,863,128	6,851,399
ROAD CONSTRUCTION	11	-	20,009	575,370	595,379
SPECIALIZED CONSTRUCTION	5	-	-	12,576	12,576
OTHERS	11	7,985	3,233	-	11,217
<b>PUBLIC</b>	22	7,270	19,904	1,169,814	1,196,988
GENERAL CONSTRUCTION	10	-	-	1,169,814	1,169,814
BUILDING CONSTRUCTION	11	7,270	19,904	-	27,174
ROAD CONSTRUCTION	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-
OTHERS	-	-	-	-	-
<b>PRIVATE</b>	1,362	304,947	1,077,538	14,816,530	16,199,015
GENERAL CONSTRUCTION	479	85,419	304,742	8,365,456	8,755,618
BUILDING CONSTRUCTION	857	211,543	749,554	5,863,128	6,824,225
ROAD CONSTRUCTION	11	-	20,009	575,370	595,379
SPECIALIZED CONSTRUCTION	5	-	-	12,576	12,576
OTHERS	11	7,985	3,233	-	11,217

TABLE C-19: GROSS VALUE OF CONSTRUCTION OUTPUT, BY CAPITAL AND MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

'000 BIRR

MAIN CONSTRUCTION ACTIVITY	NUMBER OF ENTERPRISES	CAPITAL IN BIRR					TOTAL
		UNDER 5 MILLION	5 AND UNDER 10 MILLION	10 AND UNDER 15 MILLION	15 AND UNDER 20 MILLION	20 MILLION AND OVER	
<b>PUBLIC AND PRIVATE</b>	1,384	5,393,893,166	851,279,975	725,603,408	259,745,742	#####	17,396,002,806
GENERAL CONSTRUCTION	489	889,142,244	351,233,345	451,509,280	39,010,838	8,194,535,972	9,925,431,679
BUILDING CONSTRUCTION	868	4,443,079,191	480,037,790	274,094,128	220,734,904	1,433,453,153	6,851,399,167
ROAD CONSTRUCTION	11	37,878,714	20,008,840	-	-	537,491,389	595,378,943
SPECIALIZED CONSTRUCTION	5	12,575,838	-	-	-	-	12,575,838
OTHERS	11	11,217,179	-	-	-	-	11,217,179
<b>PUBLIC</b>	22	27,174,165	-	332,318,226	-	837,495,730	1,196,988,120
GENERAL CONSTRUCTION	10	-	-	332,318,226	-	837,495,730	1,169,813,956
BUILDING CONSTRUCTION	11	27,174,165	-	-	-	-	27,174,165
ROAD CONSTRUCTION	-	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-
<b>PRIVATE</b>	1,362	5,366,719,002	851,279,975	393,285,182	259,745,742	9,327,984,784	16,199,014,685
GENERAL CONSTRUCTION	479	889,142,244	351,233,345	119,191,054	39,010,838	7,357,040,242	8,755,617,723
BUILDING CONSTRUCTION	857	4,415,905,027	480,037,790	274,094,128	220,734,904	1,433,453,153	6,824,225,003
ROAD CONSTRUCTION	11	37,878,714	20,008,840	-	-	537,491,389	595,378,943
SPECIALIZED CONSTRUCTION	5	12,575,838	-	-	-	-	12,575,838
OTHERS	11	11,217,179	-	-	-	-	11,217,179

TABLE C-20: VALUE ADDED BY MAIN CONSTRUCTION ACTIVITY AND SIZE OF WORK FORCE, 2001 E.F.Y. (2008/09)

IN BIRR

MAIN CONSTRUCTION ACTIVITY	SIZE OF WORKFORCE			
	UP TO 19 PERSONS	20 - 49 PERSONS	50 PERSONS & OVER	TOTAL
PUBLIC AND PRIVATE	41,546,099	336,092,423	7,435,468,770	7,813,107,292
GENERAL CONSTRUCTION	-37,732,541	102,506,477	4,732,225,376	4,796,999,311
BUILDING CONSTRUCTION	75,173,264	224,630,821	2,410,024,198	2,709,828,283
ROAD CONSTRUCTION	-	7,665,925	289,789,115	297,455,040
SPECIALIZED CONSTRUCTION	-	-	3,430,081	3,430,081
OTHERS	4,105,376	1,289,200	-	5,394,576
PUBLIC	1,915,298	3,518,961	549,368,885	554,803,144
GENERAL CONSTRUCTION	-	-	549,368,885	549,368,885
BUILDING CONSTRUCTION	1,915,298	3,518,961	-	5,434,259
ROAD CONSTRUCTION	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-
OTHERS	-	-	-	-
PRIVATE	39,630,801	332,573,461	6,886,099,885	7,258,304,147
GENERAL CONSTRUCTION	-37,732,541	102,506,477	4,182,856,491	4,247,630,426
BUILDING CONSTRUCTION	73,257,966	221,111,860	2,410,024,198	2,704,394,024
ROAD CONSTRUCTION	-	7,665,925	289,789,115	297,455,040
SPECIALIZED CONSTRUCTION	-	-	3,430,081	3,430,081
OTHERS	4,105,376	1,289,200	-	5,394,576

TABLE C-21: VALUE ADDED BY CAPITAL AND MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

IN BIRR

MAIN CONSTRUCTION ACTIVITY	CAPITAL					TOTAL
	UNDER 5 MILLION	5 AND UNDER 10 MILLION	10 AND UNDER 15 MILLION	15 AND UNDER 20 MILLION	20 MILLION AND OVER	
<b>PUBLIC AND PRIVATE</b>	2,160,529,257	368,232,636	280,147,829	167,408,972	4,836,788,598	7,813,107,292
GENERAL CONSTRUCTION	363,233,711	189,541,060	184,985,226	10,667,356	4,048,571,959	4,796,999,311
BUILDING CONSTRUCTION	1,772,966,960	171,025,651	95,162,603	156,741,616	513,931,453	2,709,828,283
ROAD CONSTRUCTION	15,503,929	7,665,925	-	-	274,285,186	297,455,040
SPECIALIZED CONSTRUCTION	3,430,081	-	-	-	-	3,430,081
OTHERS	5,394,576	-	-	-	-	5,394,576
<b>PUBLIC</b>	5,434,259	-	131,801,012	-	417,567,873	554,803,144
GENERAL CONSTRUCTION	-	-	131,801,012	-	417,567,873	549,368,885
BUILDING CONSTRUCTION	5,434,259	-	-	-	-	5,434,259
ROAD CONSTRUCTION	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-
<b>PRIVATE</b>	2,155,094,997	368,232,636	148,346,817	167,408,972	4,419,220,725	7,258,304,147
GENERAL CONSTRUCTION	363,233,711	189,541,060	53,184,214	10,667,356	3,631,004,086	4,247,630,426
BUILDING CONSTRUCTION	1,767,532,701	171,025,651	95,162,603	156,741,616	513,931,453	2,704,394,024
ROAD CONSTRUCTION	15,503,929	7,665,925	-	-	274,285,186	297,455,040
SPECIALIZED CONSTRUCTION	3,430,081	-	-	-	-	3,430,081
OTHERS	5,394,576	-	-	-	-	5,394,576

TABLE C-22: NUMBER OF ENTERPRISES, TOTAL VALUE OF NEW CONSTRUCTION INCLUDING EXTENSION, AND MAJOR REPAIR AND MAINTANANCE BY MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

MAIN CONSTRUCTION ACTIVITY	NUMBER OF ENTERPRISES			VALUE OF NEW CONSTRUCTION, AND MAJOR REPAIR AND MAINTENANCE '000 BIRR		
	PUBLIC	PRIVATE	TOTAL	PUBLIC	PRIVATE	TOTAL
<b>TOTAL</b>	22	1,362	1,384	1,183,100	15,875,997	17,059,097
GENERAL CONSTRUCTION	10	479	489	1,155,926	8,573,295	9,729,221
BUILDING CONSTRUCTION	11	857	868	27,174	6,693,865	6,721,039
ROAD CONSTRUCTION	-	11	11	-	586,921	586,921
SPECIALIZED CONSTRUCTION	-	5	5	-	10,699	10,699
OTHERS	-	11	11	-	11,217	11,217

TABLE C-23: VALUE OF NEW CONSTRUCTION INCLUDING EXTENSION AND MAJOR REPAIR AND MAINTENANCE BY TYPE OF CONSTRUCTION - PUBLIC AND PRIVATE, 2001 E.F.Y. (2008/09)

IN BIRR

TYPE OF CONSTRUCTION	VALUE OF NEW CONSTRUCTION OUT PUT	VALUE OF MAJOR REPAIR AND MAINTENANCE	TOTAL
<b>RESIDENTIAL BUILDINGS</b> .....	1,472,244,156	27,205,576	1,499,449,732
<b>NON RESIDENTIAL BULDINGS</b> .....	7,501,295,096	50,983,748	7,552,278,844
COMMERCIAL BUILDINGS.....	1,175,243,845	4,121,340	1,179,365,185
INDUSTRIAL BUILDINGS.....	230,872,925	9,033,473	239,906,398
EDUCATIONAL BUILDINGS.....	2,952,436,307	10,098,184	2,962,534,491
HEALTH BUILDINGS.....	2,243,648,686	21,085,059	2,264,733,745
<b>Other non residential buildings</b> .....	899,093,332	6,645,692	905,739,025
<b>OTHER CONSTRUCTION WORKS</b> .....	7,914,476,306	45,017,258	7,959,493,565
Roads.....	4,082,485,013	5,202,326	4,087,687,339
Bridges.....	98,516,462	-	98,516,462
Air Fields .....	138,344,403	-	138,344,403
<b>Dams</b> .....	2,738,640,357	-	2,738,640,357
pipe lines.....	282,676,761	4,770,507	287,447,268
Others .....	573,813,310	35,044,425	608,857,735
<b>WORK DONE AS SUB CONTRACTOR</b> .....	47,875,356	-	47,875,356
<b>TOTAL</b>	<b>16,935,890,914</b>	<b>123,206,582</b>	<b>17,059,097,496</b>

TABLE C-24: VALUE OF NEW CONSTRUCTION INCLUDING EXTENSION AND MAJOR REPAIR AND MAINTENANCE BY TYPE OF CONSTRUCTION - PUBLIC, 2001 E.F.Y. (2008/09)

IN BIRR

TYPE OF CONSTRUCTION	VALUE OF NEW CONSTRUCTION OUT PUT	VALUE OF MAJOR REPAIR AND MAINTENANCE	TOTAL
<b>RESIDENTIAL BUILDINGS</b> .....	120,095,483	-	120,095,483
<b>NON RESIDENTIAL BUILDINGS</b> .....	647,439,155	2,191,629	649,630,784
COMMERCIAL BUILDINGS.....	353,270,769	-	353,270,769
INDUSTRIAL BUILDINGS.....	28,385,852	-	28,385,852
EDUCATIONAL BUILDINGS.....	100,929,752	-	100,929,752
HEALTH BUILDINGS.....	75,822,008	-	75,822,008
<b>Other non residential buildings</b> .....	89,030,773	2,191,629	91,222,402
<b>OTHER CONSTRUCTION WORKS</b> .....	393,018,084	-	393,018,084
Roads.....	57,853,371	-	57,853,371
Bridges.....	-	-	-
Air Fields .....	57,441,019	-	57,441,019
<b>Dams</b> .....	-	-	-
pipe lines.....	59,085,827	-	59,085,827
Others .....	218,637,867	-	218,637,867
<b>WORK DONE AS SUB CONTRACTOR</b> .....	20,356,042	-	20,356,042
<b>TOTAL</b>	<b>1,180,908,764</b>	<b>2,191,629</b>	<b>1,183,100,393</b>

TABLE C-25: VALUE OF NEW CONSTRUCTION INCLUDING EXTENSION AND MAJOR REPAIR AND MAINTENANCE BY TYPE OF CONSTRUCTION - PRIVATE, 2001 E.F.Y. (2008/09)

IN BIRR

TYPE OF CONSTRUCTION	VALUE OF NEW CONSTRUCTION OUT PUT	VALUE OF MAJOR REPAIR AND MAINTENANCE	TOTAL
<b>RESIDENTIAL BUILDINGS</b> .....	1,352,148,673	27,205,576	1,379,354,249
<b>NON RESIDENTIAL BULDINGS</b> .....	6,853,855,942	48,792,119	6,902,648,060
COMMERCIAL BUILDINGS.....	821,973,076	4,121,340	826,094,416
INDUSTRIAL BUILDINGS.....	202,487,072	9,033,473	211,520,545
EDUCATIONAL BUILDINGS.....	2,851,506,555	10,098,184	2,861,604,739
HEALTH BUILDINGS.....	2,167,826,679	21,085,059	2,188,911,737
<b>Other non residential buildings</b> .....	810,062,559	4,454,063	814,516,623
OTHER CONSTRUCTION WORKS.....	7,521,458,222	45,017,258	7,566,475,480
Roads.....	4,024,631,642	5,202,326	4,029,833,968
Bridges.....	98,516,462	-	98,516,462
Air Fields .....	80,903,384	-	80,903,384
<b>Dams</b> .....	2,738,640,357	-	2,738,640,357
pipe lines.....	223,590,934	4,770,507	228,361,441
Others .....	355,175,443	35,044,425	390,219,868
<b>WORK DONE AS SUB CONTRACTOR</b> .....	27,519,314	-	27,519,314
<b>TOTAL</b>	<b>15,754,982,151</b>	<b>121,014,953</b>	<b>15,875,997,104</b>

TABLE C-26: NUMBER OF ENTERPRISES, BY TYPE OF EXPENDITURE AND MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

'000 BIRR

MAIN CONSTRUCTION ACTIVITY	NUMBER OF ENTERPRISES	EXPENDITURE TYPE									
		COST OF RAW MATERIALS CONSUMED			PAYMENT TO SUB CONTRACTORS	COST OF ENERGY CONSUMED	PAYMENT TO CONSTRUCTION RELATED SERVICES RECEIVED	TOTAL EXPENDITURE DIRECTLY RELATED TO CONSTRUCTION	TRANSPORT COST	PAYMENTS FOR NON CONSTRUCTION SERVICES RECEIVED	TOTAL CONSTRUCTION RELATED AND NON-CONSTRUCTION COSTS
		LOCAL	IMPORTED	TOTAL							
<b>PUBLIC AND PRIVATE</b>	1,384	6,344,030	378,907	6,722,937	751,573	386,956	790,212	8,651,678	235,534	1,150,835	10,038,047
GENERAL CONSTRUCTION	489	2,775,302	188,932	2,964,234	677,267	230,691	542,127	4,414,319	107,396	945,128	5,466,843
BUILDING CONSTRUCTION	868	3,482,282	186,874	3,669,156	54,006	105,470	153,699	3,982,331	90,691	177,798	4,250,820
ROAD CONSTRUCTION	11	78,656	3,101	81,757	20,166	49,053	90,314	241,290	37,316	26,636	305,242
SPECIALIZED CONSTRUCTION	5	2,368	-	2,368	-	1,740	3,758	7,866	96	1,183	9,145
OTHERS	11	5,421	-	5,421	134	2	313	5,870	34	91	5,995
<b>PUBLIC</b>	22	401,173	96,078	497,251	41,075	64,696	37,098	640,120	14,874	30,538	685,532
GENERAL CONSTRUCTION	10	378,789	96,078	474,867	41,075	64,229	37,009	617,180	14,769	30,202	662,151
BUILDING CONSTRUCTION	11	22,384	-	22,384	-	467	89	22,940	105	336	23,381
ROAD CONSTRUCTION	-	-	-	-	-	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-
<b>PRIVATE</b>	1,362	5,942,857	282,829	6,225,686	710,498	322,260	753,114	8,011,558	220,660	1,120,297	9,352,515
GENERAL CONSTRUCTION	479	2,396,513	92,854	2,489,367	636,192	166,462	505,119	3,797,140	92,628	914,926	4,804,694
BUILDING CONSTRUCTION	857	3,459,899	186,874	3,646,773	54,006	105,003	153,610	3,959,392	90,585	177,462	4,227,439
ROAD CONSTRUCTION	11	78,656	3,101	81,757	20,166	49,053	90,314	241,290	37,316	26,636	305,242
SPECIALIZED CONSTRUCTION	5	2,368	-	2,368	-	1,740	3,758	7,866	96	1,183	9,145
OTHERS	11	5,421	-	5,421	134	2	313	5,870	34	91	5,995

TABLE C-27: NUMBER OF ENTERPRISES, BY COST OF ENERGY CONSUMED AND  
MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

MAIN CONSTRUCTION ACTIVITY	NUMBER OF ENTERPRISES	TOTAL COST OF ENERGY CONSUMED '000 BIRR		
		COST OF FUEL & LUBRICANTS	ELECTRICITY	TOTAL
<b>PUBLIC AND PRIVATE</b>	1,384	339,547	47,409.0	386,955.8
GENERAL CONSTRUCTION	489	191,523	39,168.0	230,691.2
BUILDING CONSTRUCTION	868	99,264	6,206.0	105,469.8
ROAD CONSTRUCTION	11	47,035	2,018.0	49,052.9
SPECIALIZED CONSTRUCTION	5	1,723	17.0	1,740.4
OTHERS	11	2	-	1.6
<b>PUBLIC</b>	22	32,199	32,498.0	64,696.3
GENERAL CONSTRUCTION	10	31,733	32,497.0	64,229.4
BUILDING CONSTRUCTION	11	466	1.0	466.9
ROAD CONSTRUCTION	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-
OTHERS	-	-	-	-
<b>PRIVATE</b>	1,362	307,348	14,911.0	322,259.5
GENERAL CONSTRUCTION	479	159,790	6,671.0	166,461.8
BUILDING CONSTRUCTION	857	98,798	6,205.0	105,002.9
ROAD CONSTRUCTION	11	47,035	2,018.0	49,052.9
SPECIALIZED CONSTRUCTION	5	1,723	17.0	1,740.4
OTHERS	11	1.6	-	1.6

TABLE C-28: VALUE OF FIXED ASSETS AND NEW CAPITAL EXPENDITURE BY OWNERSHIP AND MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

IN BIRR

MAIN CONSTRUCTION ACTIVITY	VALUE OF FIXED ASSETS			NEW CAPITAL EXPENDITURE		
	OWNERSHIP					
	PUBLIC	PRIVATE	TOTAL	PUBLIC	PRIVATE	TOTAL
GENERAL CONSTRUCTION	402,168,699	3,114,027,588	3,516,196,286	57,689,961	884,443,630	942,133,591
BUILDING CONSTRUCTION	2,616,552	1,196,612,781	1,199,229,333	157,201	454,899,961	455,057,162
ROAD CONSTRUCTION	-	229,881,153	229,881,153	-	78,423,160	78,423,160
SPECIALIZED CONSTRUCTION	-	1,175,883	1,175,883	-	934,248	934,248
OTHERS	-	385,805	385,805	-	369,012	369,012
<b>TOTAL</b>	404,785,251	4,542,083,209	4,946,868,460	57,847,162	1,419,070,011	1,476,917,173

TABLE C-29: INVESTMENT IN FIXED ASSETS OF CONSTRUCTION ENTERPRISES BY SOURCE OF FUND AND  
MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

MAIN CONSTRUCTION ACTIVITY	SOURCE OF FUND					FOREIGN SOURCE	GRAND TOTAL
	DOMESTIC SOURCE				TOAL		
	OWN	BANK LOAN	OTHERS				
<b>PUBLIC AND PRIVATE</b>	1,049,056,539	286,817,981	10,514,495	1,346,040,431	157,523,097	1,476,917,173	
GENERAL CONSTRUCTION	571,697,695	210,813,874	1,046,741	814,574,696	157,472,144	942,133,591	
BUILDING CONSTRUCTION	397,632,425	76,004,107	9,467,754	451,739,316	50,953	455,057,162	
ROAD CONSTRUCTION	78,423,160	-	-	78,423,160	-	78,423,160	
SPECIALIZED CONSTRUCTION	934,248	-	-	934,248	-	934,248	
OTHERS	369,012	-	-	369,012	-	369,012	
<b>PUBLIC</b>	84,247,162	-	-	26,221,865	-	57,847,162	
GENERAL CONSTRUCTION	84,089,961	-	-	26,064,664	-	57,689,961	
BUILDING CONSTRUCTION	157,201	-	-	157,201	-	157,201	
ROAD CONSTRUCTION	-	-	-	-	-	-	
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-	
OTHERS	-	-	-	-	-	-	
<b>PRIVATE</b>	964,809,378	286,817,981	10,514,495	1,319,818,566	157,523,097	1,419,070,011	
GENERAL CONSTRUCTION	487,607,734	210,813,874	1,046,741	788,510,032	157,472,144	884,443,630	
BUILDING CONSTRUCTION	397,475,224	76,004,107	9,467,754	451,582,115	50,953	454,899,961	
ROAD CONSTRUCTION	78,423,160	-	-	78,423,160	-	78,423,160	
SPECIALIZED CONSTRUCTION	934,248	-	-	934,248	-	934,248	
OTHERS	369,012	-	-	369,012	-	369,012	

TABLE C-30: VALUE OF FIXED ASSETS BY TYPE AND MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

IN BIRR

MAIN CONSTRUCTION ACTIVITY	NUMBER OF ENTERPRISES	TYPE OF FIXED ASSETS				
		BUILDING AND OTHER CONSTRUCTION OUTPUT	MACHINERY, EQUIPMENT AND FURNITURE	VEHICLES	OTHERS	TOTAL
<b>PUBLIC AND PRIVATE</b>	1,384	520,706,873	2,965,938,287	1,288,571,674	171,651,626	4,946,868,460
GENERAL CONSTRUCTION	489	303,431,506	2,323,971,806	759,245,812	129,547,163	3,516,196,286
BUILDING CONSTRUCTION	868	202,407,097	505,324,671	453,743,551	37,754,014	1,199,229,333
ROAD CONSTRUCTION	11	14,868,270	136,056,622	74,826,586	4,129,675	229,881,153
SPECIALIZED CONSTRUCTION	5	-	258,211	755,725	161,947	1,175,883
OTHERS	11	-	326,977	-	58,828	385,805
<b>PUBLIC</b>	22	31,249,205	227,465,259	111,271,690	34,799,097	404,785,251
GENERAL CONSTRUCTION	10	31,249,205	226,273,585	109,874,132	34,771,776	402,168,699
BUILDING CONSTRUCTION	11	-	1,191,674	1,397,557	27,321	2,616,552
ROAD CONSTRUCTION	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-
<b>PRIVATE</b>	1,362	489,457,668	2,738,473,028	1,177,299,984	136,852,529	4,542,083,209
GENERAL CONSTRUCTION	479	272,182,301	2,097,698,221	649,371,679	94,775,387	3,114,027,588
BUILDING CONSTRUCTION	857	202,407,097	504,132,997	452,345,994	37,726,693	1,196,612,781
ROAD CONSTRUCTION	11	14,868,270	136,056,622	74,826,586	4,129,675	229,881,153
SPECIALIZED CONSTRUCTION	5	-	258,211	755,725	161,947	1,175,883
OTHERS	11	-	326,977	-	58,828	385,805

TABLE C-31: VALUE OF FIXED ASSETS AND NEW CAPITAL EXPENDITURE BY MAIN CONSTRUCTION ACTIVITY AND SIZE OF WORK FORCE, 2001 E.F.Y. (2008/09)

'000 BIRR

MAIN CONSTRUCTION ACTIVITY	FIXED ASSETS BY SIZE OF WORKFORCE				NEW CAPITAL EXPENDITURE BY SIZE OF WORKFORCE			
	UP TO 19 PERSONS	20 - 49 PERSONS	50 PERSONS & OVER	TOTAL	UP TO 19 PERSONS	20 - 49 PERSONS	50 PERSONS & OVER	TOTAL
<b>PUBLIC AND PRIVATE</b>	60,608	277,034	4,609,226	4,946,868	18,041	81,337	1,377,540	1,476,917
GENERAL CONSTRUCTION	11,953	130,036	3,374,208	3,516,196	7,183	43,915	891,036	942,134
BUILDING CONSTRUCTION	48,287	140,142	1,010,800	1,199,229	10,489	35,743	408,825	455,057
ROAD CONSTRUCTION	-	6,839	223,042	229,881	-	1,678	76,745	78,423
SPECIALIZED CONSTRUCTION	-	-	1,176	1,176	-	-	934	934
OTHERS	369	17	-	386	369	-	-	369
<b>PUBLIC</b>	923	1,694	402,169	404,785	-	157	57,690	57,847
GENERAL CONSTRUCTION	-	-	402,169	402,169	-	-	57,690	57,690
BUILDING CONSTRUCTION	923	1,694	-	2,617	-	157	-	157
ROAD CONSTRUCTION	-	-	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-
<b>PRIVATE</b>	59,686	275,340	4,207,058	4,542,083	18,041	81,180	1,319,850	1,419,070
GENERAL CONSTRUCTION	11,953	130,036	2,972,039	3,114,028	7,183	43,915	833,346	884,444
BUILDING CONSTRUCTION	47,364	138,448	1,010,800	1,196,613	10,489	35,586	408,825	454,900
ROAD CONSTRUCTION	-	6,839	223,042	229,881	-	1,678	76,745	78,423
SPECIALIZED CONSTRUCTION	-	-	1,176	1,176	-	-	934	934
OTHERS	369	17	-	386	369	-	-	369

TABLEC:-31 ESTEMATE OF VALUE OF FIXED ASSETS BY TYPE AND MAIN CONSTRUCTION ACTIVITY,2001 E.F.Y(2008/09)

	TYPES OF FIXED ASSETS					
	BUILDING AND OTHER CONSTRUCTION OUTPUT			MACHINERY,EQUIPMENT AND FURNITURE		
	Total estimate	Standard error	cv (%)	Total estimate	Standard error	cv (%)
PUBLIC AND PRIVATE	520,706,873	7,698	0.001	2,965,938,287	9,504,219	0.32
GENERAL CONSTRUCTION	303,431,506	-	-	2,323,971,806	8,764,315	0.38
BUILDING CONSTRUCTION	202,407,097	7,698	0.004	505,324,671	2,313,576	0.46
ROAD CONSTRUCTION	14,868,270	-	-	136,056,622	-	-
SPECIALIZED CONSTRUCTION	-	-	-	258,211	-	-
OTHERS	-	-	-	326,977	-	-
PUBLIC	31,249,205	-	-	227,465,259	8,378,308	3.68
GENERAL CONSTRUCTION	31,249,205	-	-	226,273,585	8,378,308	3.70
BUILDING CONSTRUCTION	-	-	-	1,191,674	-	-
ROAD CONSTRUCTION	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-
PRIVATE	489,457,668	7,698	0.002	2,738,473,028	1,363,545	0.05
GENERAL CONSTRUCTION	272,182,301	-	-	2,097,698,221	832,281	0.04
BUILDING CONSTRUCTION	202,407,097	7,698	0.004	504,132,997	2,313,576	0.46
ROAD CONSTRUCTION	14,868,270	-	-	136,056,622	-	-
SPECIALIZED CONSTRUCTION	-	-	-	258,211	-	-
OTHERS	-	-	-	326,977	-	-

Table C-31 CONT'D

	TYPE OF FIXED ASSETS								
	VEHICLES			OTHERS			Total		
	Total estimate	Standard error	cv (%)	Total estimate	Standard error	cv (%)	Total estimate	Standard error	cv (%)
PUBLIC AND PRIVATE	1,288,571,674	26,407,876	2.05	171,651,626	651,422	0.38	9,978,204,633	73,421,193	0.74
GENERAL CONSTRUCTION	759,245,812	25,103,569	3.31	129,547,163	589,430	0.45	7,148,245,750	68,846,661	0.96
BUILDING CONSTRUCTION	453,743,551	5,238,161	1.15	37,754,014	250,523	0.66	2,367,073,202	14,643,670	0.62
ROAD CONSTRUCTION	74,826,586	-	-	4,129,675	-	-	459,762,305	-	-
SPECIALIZED CONSTRUCTION	755,725	-	-	161,947	-	-	2,351,766	-	-
OTHERS	-	-	-	58,828	-	-	771,609	-	-
PUBLIC	111,271,690	25,018,378	22.48	34,799,097	558,093	1.60	851,188,579	67,909,558	7.98
GENERAL CONSTRUCTION	109,874,132	25,018,378	22.77	34,771,776	558,093	1.61	845,955,474	67,909,558	8.03
BUILDING CONSTRUCTION	1,397,557	-	-	27,321	-	-	5,233,105	-	-
ROAD CONSTRUCTION	-	-	-	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-
PRIVATE	1,177,299,984	-	-	136,852,529	-	-	9,127,016,054	2,681,951	0.03
GENERAL CONSTRUCTION	649,371,679	2,066,382	0.32	94,775,387	64,325	0.07	6,302,290,276	4,936,521	0.08
BUILDING CONSTRUCTION	452,345,994	5,238,161	1.16	37,726,693	250,523	0.66	2,361,840,098	14,643,670	0.62
ROAD CONSTRUCTION	74,826,586	-	-	4,129,675	-	-	459,762,305	-	-
SPECIALIZED CONSTRUCTION	755,725	-	-	161,947	-	-	2,351,766	-	-
OTHERS	-	-	-	58,828	-	-	771,609	-	-

TABLE C-32: VALUE OF FIXED ASSETS BY CAPITAL AND MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

IN BIRR

MAIN CONSTRUCTION ACTIVITY	CAPITAL					TOTAL
	UNDER 5 MILLION	5 AND UNDER 10 MILLION	10 AND UNDER 15 MILLION	15 AND UNDER 20 MILLION	20 MILLION AND OVER	
<b>PUBLIC AND PRIVATE</b>	550,464,858	119,696,532	77,831,652	109,095,030	4,089,780,389	4,946,868,460
GENERAL CONSTRUCTION	200,458,571	29,737,814	33,813,611	42,743,644	3,209,442,647	3,516,196,286
BUILDING CONSTRUCTION	342,714,828	83,119,374	44,018,041	66,351,386	663,025,704	1,199,229,333
ROAD CONSTRUCTION	5,729,771	6,839,344	-	-	217,312,038	229,881,153
SPECIALIZED CONSTRUCTION	1,175,883	-	-	-	-	1,175,883
OTHERS	385,805	-	-	-	-	385,805
<b>PUBLIC</b>	2,616,552	-	18,768,100	-	383,400,599	404,785,251
GENERAL CONSTRUCTION	-	-	18,768,100	-	383,400,599	402,168,699
BUILDING CONSTRUCTION	2,616,552	-	-	-	-	2,616,552
ROAD CONSTRUCTION	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-
<b>PRIVATE</b>	547,848,306	119,696,532	59,063,552	109,095,030	3,706,379,790	4,542,083,209
GENERAL CONSTRUCTION	200,458,571	29,737,814	15,045,511	42,743,644	2,826,042,048	3,114,027,588
BUILDING CONSTRUCTION	340,098,276	83,119,374	44,018,041	66,351,386	663,025,704	1,196,612,781
ROAD CONSTRUCTION	5,729,771	6,839,344	-	-	217,312,038	229,881,153
SPECIALIZED CONSTRUCTION	1,175,883	-	-	-	-	1,175,883
OTHERS	385,805	-	-	-	-	385,805

TABLE C-33: NEW CAPITAL EXPENDITURE BY CAPITAL AND MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

IN BIRR

MAIN CONSTRUCTION ACTIVITY	CAPITAL					TOTAL
	UNDER 5 MILLION	5 AND UNDER 10 MILLION	10 AND UNDER 15 MILLION	15 AND UNDER 20 MILLION	20 MILLION AND OVER	
<b>PUBLIC AND PRIVATE</b>	189,201,019	34,563,450	32,904,405	77,043,692	1,143,204,607	1,476,917,173
GENERAL CONSTRUCTION	64,412,010	303,837	8,596,195	25,852,300	842,969,250	942,133,591
BUILDING CONSTRUCTION	122,810,704	32,581,219	24,308,210	51,191,392	224,165,637	455,057,162
ROAD CONSTRUCTION	675,046	1,678,394	-	-	76,069,720	78,423,160
SPECIALIZED CONSTRUCTION	934,248	-	-	-	-	934,248
OTHERS	369,012	-	-	-	-	369,012
<b>PUBLIC</b>	157,201	-	3,769,604	-	53,920,357	57,847,162
GENERAL CONSTRUCTION	-	-	3,769,604	-	53,920,357	57,689,961
BUILDING CONSTRUCTION	157,201	-	-	-	-	157,201
ROAD CONSTRUCTION	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-
<b>PRIVATE</b>	189,043,818	34,563,450	29,134,801	77,043,692	1,089,284,250	1,419,070,011
GENERAL CONSTRUCTION	64,412,010	303,837	4,826,591	25,852,300	789,048,893	884,443,630
BUILDING CONSTRUCTION	122,653,503	32,581,219	24,308,210	51,191,392	224,165,637	454,899,961
ROAD CONSTRUCTION	675,046	1,678,394	-	-	76,069,720	78,423,160
SPECIALIZED CONSTRUCTION	934,248	-	-	-	-	934,248
OTHERS	369,012	-	-	-	-	369,012

TABLE C-34: INDICATORS OF CONSTRUCTION ACTIVITY BY TYPE OF OWNERSHIP AND MAIN CONSTRUCTION ACTIVITY , 2001 E.F.Y. (2008/09)

MAIN CONSTRUCTION ACTIVITY	PERSONS ENGAGED					VALUE ADDED				
	OWNERSHIP									
	PUBLIC		PRIVATE		TOTAL NUMBER	PUBLIC		PRIVATE		TOTAL '000 BIRR
	NUMBER	%	NUMBER	%		'000 BIRR	%	'000 BIRR	%	
GENERAL CONSTRUCTION	10,617	97	72,260	45	82,876	549,369	99	4,247,630	59	4,796,999
BUILDING CONSTRUCTION	301	3	80,975	50	81,276	5,434	1	2,704,394	37	2,709,828
ROAD CONSTRUCTION	-	-	7,245	5	7,245	-	-	297,455	4	297,455
SPECIALIZED CONSTRUCTION	-	-	359	0	359	-	-	3,430	-	3,430
OTHERS	-	-	209	0	209	-	-	5,395	0	5,395
<b>TOTAL</b>	10,918	100	161,047	100	171,965	554,803	100	7,258,304	100	7,813,107

TABLE C-35: ANALYTICAL RATIOS FOR CONSTRUCTION ACTIVITIES BY MAIN CONSTRUCTION ACTIVITY, 2001 E.F.Y. (2008/09)

MAIN CONSTRUCTION ACTIVITY	GROSS CONSTRUCTION OUTPUT PER OPERATIVE	VALUE ADDED PER OPERATIVE	RATIO OF IMPORTED TO TOTAL RAW MATERIAL	PERCENTAGE DISTRIBUTION OF VALUE ADDED	RATIO OF ENERGY CONSUMED TO TOTAL DIRECT CONSTRUCTION EXPENDITURE	RATIO OF VALUE ADDED TO GROSS VALUE OF CONSTRUCTION OUT PUT
<b>PUBLIC AND PRIVATE</b>	101,160	45,434	0.1	100.0	0.2	0.4
GENERAL CONSTRUCTION	119,762	57,882	0.1	61.4	0.2	0.5
BUILDING CONSTRUCTION	84,298	33,341	0.1	34.7	0.3	0.4
ROAD CONSTRUCTION	82,181	41,058	0.04	3.8	0.3	0.5
SPECIALIZED CONSTRUCTION	34,993	9,544	-	0.0	0.3	0.3
OTHERS	53,781	25,864	-	0.1	0	0.5
<b>PUBLIC</b>	109,636	50,816	0.2	100.0	0.5	-
GENERAL CONSTRUCTION	110,187	51,746	0.2	99.0	0.5	-
BUILDING CONSTRUCTION	90,204	18,039	-	1.0	0.8	-
ROAD CONSTRUCTION	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-
<b>PRIVATE</b>	100,585	45,069	0.05	100.0	0.2	-
GENERAL CONSTRUCTION	121,169	58,783	0.04	58.5	0.1	-
BUILDING CONSTRUCTION	84,276	33,398	0.1	37.3	0.3	-
ROAD CONSTRUCTION	82,181	41,058	0.04	4.1	0.3	-
SPECIALIZED CONSTRUCTION	34,993	9,544	-	0.05	0.3	-
OTHERS	53,781	25,864	-	0.1	-	-

**APPENDIX I**

CENTRAL STATISTICAL AGENCY  
SURVEY OF CONSTRUCTION INDUSTRY

**Data are Strictly  
Confidential and Solely  
for Statistical Purposes**

**PART 1 - AREA IDENTIFICATION**

1.1. ADDRESS OF THE ENTERPRISE

1	2	3	4	5	6	7	8
KILLIL	ZONE	WEREDA	TOWN	HIGHER/ SUB CITY	KEBELE	HOUSE NO.	QUESTIONNAIRE CONSTRUCTION INDUSTRY
							2 0 0 1

9	10	11	12	13	14
ISIC NO. (OFFICE USE)	REGISTERED NAME OF ENTERPRISE/OWNERS' NAME	SERIAL NO. OF ESTABL. (For Office)	TELEPHONE NO.	P.O.BOX NO.	ENTERP RISE GRADE

1.2\* NAMES & ADDRESSES OF PROJECTS UNDER WAY BY THE ENTERPRISE;

<u>NAME</u>	<u>ADDRESS</u>			<u>ACTIVITY</u>	<u>VALUE OF CONSTRUCTION OUTPUT (IN BIRR)</u>
	<u>KILLIL</u>	<u>ZONE</u>	<u>CITY</u>		
1.2.1 -----	-----	-----	-----	-----	-----
1.2.2 -----	-----	-----	-----	-----	-----
1.2.3 -----	-----	-----	-----	-----	-----
1.2.4 -----	-----	-----	-----	-----	-----
1.2.5 -----	-----	-----	-----	-----	-----
1.2.6 -----	-----	-----	-----	-----	-----
1.2.7 -----	-----	-----	-----	-----	-----
1.2.8 -----	-----	-----	-----	-----	-----
1.2.9 -----	-----	-----	-----	-----	-----

\* IF THE PROJECTS ARE MORE THAN NINE PLEASE USE ADDITIONAL PAPER

**PART 2 - BASIC INFORMATION ABOUT THE ENTERPRISE**

2.1 MAJOR CONSTRUCTION ACTIVITY			
BUILDING CONTRACTOR	-----	=1	1 <input style="width: 40px; height: 20px; border: 1px solid black;" type="checkbox"/>
GENERAL CONTRACTOR	-----	=2	
ROAD CONTRACTOR	-----	=3	
SPECIAL CONTRACTOR	-----	=4	
OTHER (SPECIFY)	-----	=5	
2.2 DATE OF COMMENCEMENT OF OPERATION (IN ETHIOPIAN CALENDAR YEAR) _____			2 <input style="width: 100px; height: 20px; border: 1px solid black;" type="checkbox"/>
2.3 DO YOU KEEP BOOKS OF ACCOUNTS?	YES =1    NO =2		3 <input style="width: 40px; height: 20px; border: 1px solid black;" type="checkbox"/>
(IF YES ATTACH COPY OF DETAILED STATEMENT OF ACCOUNTS)			
2.4 IF THE ANSWER IS YES TO 2.3 STATE ACCORDING TO WHICH CALENDAR YEAR YOUR BOOKS OF ACCOUNTS ARE BEING KEPT?			4 <input style="width: 40px; height: 20px; border: 1px solid black;" type="checkbox"/>
ETHIOPIAN FISCAL YEAR	(YEAR ENDING JULY 7)	=1	
ETHIOPIAN CALENDAR YEAR	(YEAR ENDING SEPT.10)	=2	
GREGORIAN CALENDAR YEAR	(YEAR ENDING DEC.31)	=3	
OTHERS (SPECIFY)	_____	=4	
2.5 TYPE OF OWNERSHIP			5 <input style="width: 40px; height: 20px; border: 1px solid black;" type="checkbox"/>
GOVERNMENT	-----	=1	
INDIVIDUAL PROPRIETOR	-----	=2	
PARTNERSHIP	-----	=3	
SHARE COMPANY	-----	=4	
PRIVATE LIMITED COMPANY	-----	=5	
OTHER (SPECIFY)	-----	=6	

2.6 PAID-UP CAPITAL (END YEAR CAPITAL) BY OWNERSHIP AND SEX

- 1 PRIVATE ETHIOPIAN MALE BIRR \_\_\_\_\_
- 2 PRIVATE ETHIOPIAN FEMALE BIRR \_\_\_\_\_
- 3 NON-ETHIOPIAN BIRR \_\_\_\_\_
- 4 PUBLIC BIRR \_\_\_\_\_
- 5 OTHERS (SPECIFY) BIRR \_\_\_\_\_
- 6 TOTAL BIRR \_\_\_\_\_

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2.7 WHAT ARE THE THREE MAJOR PROBLEMS THAT ARE FACING THE ENTERPRISE AT PRESENT

SHORT AGE OF CONSTRUCTION OR RAW MATERIALS/

- HIGH PRICE \_\_\_\_\_ =01
- SHORT AGE OF SPARE PARTS \_\_\_\_\_ =02
- UNABLE TO COMPETE THE MARKET \_\_\_\_\_ =03
- UNABLE TO GET PROJECTS \_\_\_\_\_ =04
- LACK OF WORKING CAPITAL \_\_\_\_\_ =05
- INCONVENIENT WORKING PLACE \_\_\_\_\_ =06
- PROBLEMS WITH WORKERS \_\_\_\_\_ =07
- GOVERNMENT RULES & REGULATIONS \_\_\_\_\_ =08
- SHORT AGE OF SKILLED MANPOWER \_\_\_\_\_ =09
- PRICE ESCALATION OF CONSTRUCTION INPUT  
AND ABSENCE OF COMPENSATION BY CLIENTS \_\_\_ =10
- CORRUPTION \_\_\_\_\_ =11
- NO PROBLEM FACED \_\_\_\_\_ =12
- OTHERS (SPECIFY) \_\_\_\_\_ =13

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**PART 3 - NUMBER OF PERSONS ENGAGED AND WAGES AND SALARIES PAID IN 2001 E.F.Y.**

**3.1 AVERAGE AND HIGHEST NUMBER OF PERSONS ENGAGED BY SEX IN 2001 E.F.Y.**

SR. NO.	GENERAL OCCUPATION	NUMBER OF PERSONS ENGAGED IN 2001 E.F.Y.			
		AVERAGE NUMBER OF PERSONS ENGAGED IN ANY ONE OF THE LAST 12 MONTHS		HIGHEST NUMBER OF PERSONS ENGAGED IN ANY ONE OF THE LAST 12 MONTHS	
		MALE	FEMALE	MALE	FEMALE
1	2	3	4	5	6
1	Working Proprietors, active Partners, cooperative members, Unpaid Family Workers and unpaid apprentice				
2	Operatives				
3	Other Employees				
4	TOTAL				

**3.2 WAGES AND SALARIES PAID AND OTHER EMPLOYEES BENEFITS IN 2001 E.F.Y.**

SR. NO.	GENERAL OCCUPATION	GROSS ANNUAL WAGES AND SALARIES PAID			EMPLOYEES BENEFITS	EMPLOYERS' CONTRIBUTION TO PENSION & OTHER SOCIAL SECURITY SCHEMES
		MALE	FEMALE	TOTAL		
1	2	3	4	5	6	7
1	Operatives					
2	Other Employees					
3	TOTAL					

**PART 4 - TOTAL VALUE OF CONSTRUCTION OUTPUT AND OTHER INCOMES**

**4.1 NEW CONSTRUCTION AND CAPITAL REPAIR IN 2001 E.F.Y /BIRR/**

SR. NO.	TYPE OF CONSTRUCTION WORK DONE	CODE NO.	VALUE OF CONSTRUCTION PUT IN PLACE						TOTAL VALUE OF CONSTRUCTION
			BEGINNING OF THE YEAR			END OF THE YEAR			END YEAR - BEGINNING YEAR
			4	5	6	7	8	9	10=(7+8+9) - (4+5+6)
			CLIENT			CLIENT			
			GOVERNMENT	ENTERPRISE	OTHERS	GOVERNMENT	ENTERPRISE	OTHERS	
0 1	<b>1 RESIDENTIAL BUILDINGS</b>								
0 2	<b>2 NON RESIDENTIAL BUILDINGS</b>								
0 3	2.1 Commercial Buildings								
0 4	2.2 Industrial Buildings								
0 5	2.3 Educational Buildings								
0 6	2.4 Health Buildings								
0 7	2.5 Others								
0 8	<b>3 NON BUILDING CONSTRUCTION WORKS</b>								
0 9	3.1 Roads								
1 0	3.2 Bridges								
1 1	3.3 Air Fields								
1 2	3.4 Dams								
1 3	3.5 Pipe Lines/ Drainages								
1 4	3.6 Others/ Specify -----								
1 5	<b>4 WORK DONE AS SUB CONTRACTOR</b>								
1 6	<b>TOTAL</b>								

**NOTE:-** INCLUDES ALL CONSTRUCTION WORKS THAT ARE TO BE USED BY THE ENTERPRISE

4.3 TOTAL VALUE OF CONSTRUCTION OUTPUT BY KILLIL IN 2001 E.F.Y.

IN '000 BIRR

SR NO	TYPE OF CONSTRUCTION WORK DONE	CODE NO.	REGIONS					
			TIGRAY	AFAR	AMHARA	OROMIYA	SOMALI	BENSANGUL GUMUZ
1	2	3	4	5	6	7	8	9
0 1	<b>1 RESIDENTIAL BUILDINGS</b>							
0 2	<b>2 NON RESIDENTIAL BUILDINGS</b>							
0 3	2.1 Commercial Buildings							
0 4	2.2 Industrial Buildings							
0 5	2.3 Educational Buildings							
0 6	2.4 Health Buildings							
0 7	2.5 Others							
0 8	<b>3 NON BUILDING CONSTRUCTION WORKS</b>							
0 9	3.1 Roads							
1 0	3.2 Bridges							
1 1	3.3 Air Fields							
1 2	3.4 Dams							
1 3	3.5 Pipe Lines/ Drainages							
1 4	3.6 Others/ Specify -----							
1 5	<b>4 WORK DONE AS SUB CONTRACTOR</b>							
1 6	<b>TOTAL</b>							



## 4.3 TOTAL VALUE OF CONSTRUCTION ... continued

IN '000 BIRR

SR NO	TYPE OF CONSTRUCTION WORK DONE	CODE NO.	REGIONS					TOTAL VALUE OF CONSTRUCTION WORK DONE BY TYPE
			SNNP 10	GAMBELA 11	HARARI 12	ADDIS ABABA 13	DIRE DAWA 14	
1	2	3	10	11	12	13	14	15
0 1	<b>1 RESIDENTIAL BUILDINGS</b>							
0 2	<b>2 NON RESIDENTIAL BUILDINGS</b>							
0 3	2.1 Commercial Buildings							
0 4	2.2 Industrial Buildings							
0 5	2.3 Educational Buildings							
0 6	2.4 Health Buildings							
0 7	2.5 Others							
0 8	<b>3 NON BUILDING CONSTRUCTION WORKS</b>							
0 9	3.1 Roads							
1 0	3.2 Bridges							
1 1	3.3 Air Fields							
1 2	3.4 Dams							
1 3	3.5 Pipe Lines/ Drainages							
1 4	3.6 Others/ Specify -----							
1 5	<b>4 WORK DONE AS SUB CONTRACTOR</b>							
1 6	<b>TOTAL</b>							

**PART 5 - COST OF CONSTRUCTION MATERIALS CONSUMED AND OTHER EXPENSES IN 2001 E.F.Y. /BIRR/  
5.1 VALUE AND QUANTITY OF CONSTRUCTION MATERIALS PREFABRICATED ITEMS AND CONTAINERS USED IN 2001 E.F.Y.**

SR. NO.	DESCRIPTION OF CONSTRUCTION MATERIALS AND COMPONENTS USED	unit of measure ment	RAW MATERIAL CODE	UM CODE	LOCAL		IMPORTED		TOTAL	
					QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1	2	3	4	5	6	7	8	9	10=(6+8)	11=(7+9)
0 1	Reinforcement bar	Kg								
0 2	Cement	Qtl								
0 3	Sand	M <sup>3</sup>								
0 4	Gravel	M <sup>3</sup>								
0 5	Stone	M <sup>3</sup>								
0 6	Selected Materials	M <sup>3</sup>								
0 7	H.C.B	PCS								
0 8	Bricks	PCS								
0 9	Plastic floor tiles	M <sup>2</sup>								
1 0	Marble	M <sup>2</sup>								
1 1	Glass	M <sup>2</sup>								
1 2	Aluminum frame	ML								
1 3	Electricity items	Lump Sum								
1 4	Sanitary items	Lump Sum								
1 5										
1 6										
1 7	OTHERS									
1 8	<b>TOTAL</b>									

NOTE:- Transportation cost, taxes paid on raw material and different expenses should be included.

**5.2 VALUE OF OTHER DIRECT INPUTS OF CONSTRUCTION ACTIVITIES (IN BIRR) IN 2001 E.F.Y.**

Sr. No.	PAYMENTS TO SUB CONTRACTORS	*COST OF FUEL AND LUBRICANTS	COST OF ELECTRICITY	COST OF WATER	MINOR REPAIR & MAINTENANCE COST OF MACHINERY AND EQUIPMENT	RENTAL COST OF BUILDING, MACHINERY AND EQUIPMENT	COST OF GOODS SOLD IN THE SAME CONDITION AS RECEIVED	COST OF OTHER SERVICES RENDERED BY OTHERS	OTHER COSTS	TOTAL
1	2	3	4	5	6	7	8	9	10	11= (2+...+10)
1										

\* fuel expenses for transport should be included here

**5.3 OTHER INDIRECT EXPENSES FOR CONSTRUCTION ACTIVITIES (IN BIRR) IN 2001 E.F.Y.**

Sr. No.	PROFESSIONAL SERVICES (Architect, Engineering ...etc)	LICENSE FEE	INTEREST	BANK CHARGE	STATIONERY POSTAL SERVICES, TELEPHONE, INTERNET, ... etc	TRANSPORT	INSURANCE PREMIUM (FIXED ASSETS)	OTHER COSTS	TOTAL
1	2	3	4	5	6	7	8	9	10=(2+...+9)
1									

**5.4. TAXES PAID (IN BIRR) IN 2001 E.F.Y.**

Sr. No.	VALUE ADDED TAX (VAT)	TURN OVER TAX (TOT)	INCOME TAXES PAID ON PROFIT	TOTAL
1	2	3	4	5= 2+3+4
1				

**PART 6 - VALUE OF STOCK AT THE BEGINNING AND END OF THE YEAR (IN BIRR) IN 2001 E.F.Y**

SR NO	STOCKS OF	BEGINNING OF THE YEAR	END OF THE YEAR	DIFFERENCE (END YEAR - BEGINNING YEAR)
1	2	3	4	5=(4 - 3)
1	PROGRESS GOODS, PREFABRICATED			
2	CONSTRUCTION MATERIALS, FUEL AND OTHER GOODS			
3	GOODS PURCHASED FOR RESALE IN THE SAME CONDITION AS PURCHASED			

**PART 7 - FIXED ASSETS AND INVESTMENT IN 2001 E.F.Y.**

**7.1 FIXED ASSETS AND INVESTMENT IN 2001 E.F.Y. /BIRR/**

SR. NO.	TYPE OF FIXED ASSETS	BEGINNING OF THE YEAR	INVESTMENT DURING THE YEAR	SOLD AND DISPOSED DURING THE YEAR	DEPRECIATION DURING THE YEAR	BOOK VALUE AT END OF THE YEAR
1	2	3	4	5	6	7=[(3+4) - (5+6)]
1	BUILDINGS & OTHER CONSTRUCTION WORKS					
2	CONSTRUCTION MACHINERY & OTHER EQUIPMENTS					
3	TRANSPORT EQUIPMENTS					
4	COMPUTERS, OFFICE FURNITURE'S & OTHERS					
5	TOTAL					

**7.2 ANNUAL INVESTMENT BY TYPE AND SOURCE AND WORKING CAPITAL**

SR. NO.	SOURCE OF FINANCE	INVESTMENT FOR FIXED ASSETS	WORKING CAPITAL
1	2	3	4
1	<b>TOTAL DOMESTIC SOURCE</b>		
2	OWN FUND		
3	BANK LOAN		
4	OTHERS		
5	<b>FOREIGN SOURCE</b>		
6	<b>GRAND TOTAL</b>		

**ITEM 8 - REMARKS**


**ITEM 9 - NAME OF PERSON TO CONTACT REGARDING THIS REPORT**

I CERTIFY THAT THE PRECEDING INFORMATION IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

NAME \_\_\_\_\_ TITLE \_\_\_\_\_  
SIGNATURE \_\_\_\_\_ TEL. NO. \_\_\_\_\_  
DATE \_\_\_\_\_ OFFICIAL SEAL \_\_\_\_\_

**ITEM 10 - NAME OF ENUMERATOR AND SUPERVISOR**

NAME OR ENUMERATOR \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
NAME OF SUPERVISOR \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
HEAD OF STATISTICS  
(BRANCH OFF.) \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

APPENDIX II

Estimation Procedure for Totals and Sampling errors

Group I

1. Estimate of total  $\hat{Y}$  for Group I is given by

$$\hat{Y}_{g1} = \sum_{i=1}^{N_{g1}} Y_i \dots\dots\dots(1)$$

2. Variance estimate for group I

$$v(\hat{Y}_{g1}) = N_{g1}^2 \sum \left[ \frac{Y_i - \sum \frac{Y_i}{N_{g1}}}{N_{g1} - 1} \right]^2 \dots\dots\dots(2)$$

Group II

1. Estimate of Total for group II is given by

$$\hat{Y}_{g2} = \sum_{h=1}^2 \sum_{i=1}^{n_h} W_h Y_{hi} \dots\dots\dots(3)$$

Where,  $W_h = \frac{N_h}{n_h}$  which is the basic sampling weight.

2.  $v(\hat{Y}_{g2}) = \left( \sum_{h=1}^2 N_h (N_h - n_h) \frac{S_h^2}{n_h} \right) \dots\dots\dots(4)$

Where,  $S_h^2 = v(Y_{hi}) = \frac{1}{n_h - 1} \sum_{i=1}^{n_h} \left( Y_{hi} - \sum_{i=1}^{n_h} \frac{Y_{hi}}{n_h} \right)^2$

- Estimates of total and variances for construction characteristic,  $\hat{Y}$  is obtained by summing up estimates of group I and II totals and variances.

$$\hat{Y} = \sum_{i=1}^2 Y_{gi} \dots\dots\dots(5)$$

$$V(\hat{Y}) = V(\hat{Y}_{g1}) + V(\hat{Y}_{g2}).$$

3. Coefficient of Variation and Confidence Interval

The following formulas were used to calculate coefficient of variation and confidence interval of the reporting level totals.

The coefficient of Variation (CV) of construction characteristics total  $\hat{Y}$  in percentage is:

$$CV(\hat{Y}) = \frac{SE(\hat{Y})}{\hat{Y}} \dots\dots\dots (6)$$

And

Formula for confidence interval (CI) for construction characteristics total  $\hat{Y}$

is:

$$\hat{Y} \pm 1.96 * SE(\hat{Y}) \dots\dots\dots (7)$$

4.

R

Ratio estimates for construction characteristic  $Y$  and  $X$  is:

$$\hat{R} = \frac{\hat{Y}}{\hat{X}} \dots\dots\dots (8)$$

And Variance of Ratio estimate  $\hat{R}$  is given by

$$\text{Var}(\hat{R}) = \frac{1}{\hat{X}^2} \left[ \text{var}(\hat{Y}) + R^2 \text{var}(\hat{X}) - 2\hat{R} \text{cov}(\hat{Y}, \hat{X}) \right] \dots\dots(10)$$

Where,

$$\text{Cov}(\hat{Y}, \hat{X}) = \frac{n}{n-1} \left[ \sum_{i=1}^{n_h} \left( \hat{Y}_i - \frac{\hat{Y}}{n} \right) \left( \hat{X}_i - \frac{\hat{X}}{n} \right) \right] \dots\dots\dots(11)$$

Where,

$$\hat{X} = w_h X_i$$

Estimates of standard error, coefficient of variation and confidence for the ratio estimates can be calculated similarly as above.

$Y_{hi}$  = the observed value of a characteristic, Y for construction enterprise i having grade h.

$Y_{g1}$  = the observed value of a characteristic Y for construction enterprises with grade one up to four.

$Y_{g2}$  = the observed value of a characteristic Y for construction enterprise with grade five and six.

$N_{g1}$  = total number of construction enterprises in construction grade one up to four

$N_h$  = total number of construction enterprises in construction grade h.

$n_h$  = number of sampled construction enterprises in construction grade h which are successfully covered.

APPENDIX III

TABLE 6 : ESTEMATE OF NUMBER OF PERSONS ENGAGED AND WAGES AND SALARIES BY OWNERSHIP AND MAIN CONSTRUCTION ACTIVITY, 2008/2009 (2001 E.F.Y)

MAIN CONSTRUCTION ACTIVITY	NUMBER OF PERSONS ENGAGED			NUMBER OF EMPLOYEES			WAGES AND SALARIES '000 BIRR			NO OF PERSONS ENGAGED DURING PEAK PERIOD		
	Total estimate	Standard error	cv (%)	Total estimate	Standard error	cv (%)	Total estimate	Standard error	cv (%)	Total estimate	Standard error	cv (%)
PUBLIC AND PRIVATE	171,965	4,899	2.85	170,311	4,888	2.87	1,850,608	27,148	1.47	252,977	6,714	2.65
GENERAL CONSTRUCTION	82,876	5,796	6.99	82,413	5,776	7.01	1,019,311	29,611	2.90	107,360	7,721	7.19
BUILDING CONSTRUCTION	81,276	667	0.82	80,103	651	0.81	763,333	2,708	0.35	136,355	818	0.60
ROAD CONSTRUCTION	7,245	-	-	7,244	-	-	64,357	-	-	8,057	-	-
SPECIALIZED CONSTRUCTION	359	-	-	359	-	-	2,124	-	-	862	-	-
OTHERS	209	-	-	193	-	-	1,484	-	-	342	-	-
PUBLIC	10,918	5,033	46.10	10,912	5,033	46.12	94,482	27,712	29.33	13,143	6,225	47.36
GENERAL CONSTRUCTION	10,617	5,033	47.41	10,616	5,033	47.41	92,234	27,712	30.05	12,395	6,225	50.22
BUILDING CONSTRUCTION	301	-	-	296	-	-	2,248	-	-	748	-	-
ROAD CONSTRUCTION	-	-	-	-	-	-	-	-	-	-	-	-
SPECIALIZED CONSTRUCTION	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-
PRIVATE	161,047	800	0.50	159,400	763	0.48	1,756,126	2,509	0.14	239,833	1,871	0.78
GENERAL CONSTRUCTION	72,260	1,364	1.89	71,797	1,330	1.85	927,077	3,723	0.40	94,966	2,470	2.60
BUILDING CONSTRUCTION	80,975	667	0.82	79,807	651	0.82	761,085	2,708	0.36	135,607	818	0.60
ROAD CONSTRUCTION	7,245	-	-	7,244	-	-	64,357	-	-	8,057	-	-
SPECIALIZED CONSTRUCTION	359	-	-	359	-	-	2,124	-	-	862	-	-
OTHERS	209	-	-	193	-	-	1,484	-	-	342	-	-