THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA CENTRAL STATISTICAL AGENCY

REPORT ON LARGE AND MEDIUM SCALE MANUFACTURING AND ELECTRICITY INDUSTRY SURVEY

ADDIS ABEBA

NOVEMBER 2010

Contents

Page No

List of Tables.....ii List of Figuresix Abbreviations....xi Part I. Introduction and Objectives of the Survey Part II. **Survey Methodology Data Collection and Processing** Part III. Summary of the Major Findings of the Survey8 Part IV. Statistical Tables on Large and Medium Scale Manufacturing Industries, 2001 E.F.Y. (2008/09)31 Part V. Statistical Tables on Time Series Data of Large and Medium Scale Manufacturing Industries, 1997-2001 E.F.Y. (2003/04- 2008/09) Part VI. Statistical Tables on Electricity Industries, 1997-2001 E.F.Y. (2003/04- 2008/09) Annex:

List of Tables

Part III Summary of Selected Survey Results

<u> Table No.</u>	Page No.
Summary T	Table 3.1 Distribution of large and Medium Scale Manufacturing Industries by Regional States and Industrial Group- Public and Private
Summary T	Cable 3.2Number of Persons Engaged by Industrial Group Publicand Private.11
Summary T	Cable 3.3Number of Employees by Industrial Group Public –and private
Summary T	Percentage Distribution of Value Added by Industrial-Group – Public and Private
Summary T	Cable 3.5 Ratio of Imported to Total Raw Material Costs by Industrial Group –Public and Private
Summary T	Table 3.6 Ratio of Major Indicators-Public and private
Summary 7	Table 3.7
	Ratio of Cost of Energy Consumed to Total Industrial Cost by Industrial Group-Public and Private
Summary T	Cable 3.8 Ratio of Value Added to Gross Value of Production by Industrial Group-Public and Private
Summary T	Fable 3.9 Ratio of Cost of Labor to Gross Value of Production by Industrial Group-Public and Private
Summary T	Fable 3.10 Ratio of Operating Surplus to Gross Value of Production by Industrial Group – Public and Private

Table No	<u>.</u>	Page No.
Summary	Table 3.11	
	Percentage Distribution of Establishments by First Major Reason For Not Being Fully Operational and Industrial Group – Public and Private	21
Summary	Table 3.12 Percentage Distribution of Establishments by First Reason for Not Working at Full Capacity and Industrial Group – Public and Private	22
Summary	Table 3.13 Percentage Distribution of Establishments by Type of First Major Operational Problem Faced and Industrial Group – Public and Private	23
	Part IV. Statistical Tables on Large and Medium Scale Manufacturi Industries, 2008/ 2009 (2001 E.F.Y.)	ng
4.1	Coverage of the Survey	32
4.2	Paid-Up Capital of Reporting Establishments by Source of Ownership	24
4.3	and Industrial Group Number of Reporting Establishments by Size of Paid–Up Capital and Industrial Group – Public and Private	
4. 4	Number of Reporting Establishments by Size of Paid–Up Capital and Industrial Group – Public.	38
4.5	Number of Reporting Establishments by Size of Paid-Up Capital and Industrial Group – Private	40
4.6	Number of Establishments by Industrial Group and Form of Ownership.	42
4.7	Number of Owners of Private Establishments by Form of Ownership, Sex and Industrial Group	44
4.8	Number of Establishments With and Without Books of Accounts by the Calendar Year their Books of Accounts are kept and Industrial Group – Public and Private	46

<u>1 abie</u>	Page No.
4.9	Number of Establishments With and Without Books of Accounts by the Calendar Year their Books of Accounts are Kept and Industrial Group – Public
4.10	Number of Establishments With and Without Books of Accounts by the Calendar Year their Books of Accounts are Kept and Industrial Group-Private
4.11	Number of Persons Engaged by Sex, Nationality and Total Wages and Salaries and Industrial Group - Public and Private
4.12	Number of Persons Engaged by Sex, Nationality and Total Wages and Salaries and Industrial Group –Public
4.13	Number of Persons Engaged by Sex, Nationality and Total Wages and Salaries Industrial Group- Private
4.14	Number of Permanent Employees by Wages and Salaries Group – Public and Private
4.15	Number of Production, Apprentices and Temporary Workers by Sex, Nationality and Industrial Group – Public and Private
4.16	Number of Administrative, Technical, Clerical and Office Workers by Sex, Nationality and Industrial Group – Public and private
4.17	Number of working Proprietors, Active Partners and Family Workers by Sex, Nationality and Industrial Group – Private
4.18	Basic Wages and Salaries, Commission, Bonuses, Allowances, Food and Lodging and Supplements to Wages and Salaries by Industrial Group – Public and Private
4.19	Basic Wages and Salaries of Production Workers and Seasonal and Temporary Workers by Sex, Nationality and Industrial Group – Public and Private
4.20	Basic Wages and Salaries of Administrative, Technical, Clerical and Office Workers by Sex, Nationality and Industrial Group – Public and Private
4.21	Number of Establishments and Number of Persons Engaged by Size of Persons Engaged and Industrial Group – Public and Private
4.22	Number of Establishments and Number of Persons Engaged by Size of Persons Engaged and Industrial Group – Public

<u>Tal</u>	<u>Page No.</u>
4.23	Number of Establishments and Number of Persons Engaged by Size of Persons Engaged and Industrial Group – Private
4.24	Number of Establishments, Gross Value of Production, Industrial and Non-Industrial Costs, Indirect Taxes Net and Value Added in the National Account Concept by Industrial Group - Public and Private
4.25	Number of Establishments, Gross Value of Production, Industrial and Non-Industrial Costs, Indirect Taxes Net and Value Added in the National Account Concept by Industrial Group – Public
4.26	Number of Establishments, Gross Value of Production, Industrial and Non-Industrial Costs, Indirect Taxes Net and Value Added in the National Account Concept by Industrial Group – Private
4.27	Gross Value of Production in Producers' Values by Industrial Group – Public and Private
4.28	Actual Value of Production as Percentage of Yearly Capacity by Industrial Group – Public and Private
4.29	Actual Value of Production as Percentage of Yearly Capacity by Industrial Group – Public
4.30	Actual Value of Production as Percentage of Yearly Capacity by Industrial Group – Private
4.31	Gross Value of Production by Size of persons Engaged and Industrial Group – Public and Private
4.32	Gross Value of Production by Size of persons Engaged and Industrial Group – Public

Table No.	<u>Page No</u> .
4.33	Gross Value of Production by Size of persons Engaged and Industrial Group – Private
4.34	Value Added by Size of Persons Engaged and Industrial Group – Public and private
4.35	Value Added by Size of Persons Engaged and Industrial Group – Public
4.36	Value Added by Size of Persons Engaged and Industrial Group –Private
4.37	Summary of Operation of Large and Medium Scale Manufacturing Industries by Regional and Major Urban Centers, Public and Private
4.38	Summary of Operations of Large and Medium Scale Manufacturing Industries by Regional States and Major Urban Centers – Public
4.39	Summary of Operations of Large and Medium Scale Manufacturing Industries by Regional States and Major Urban Centers – Private
4.40	Fixed Assets and New Capital Expenditure by Industrial Group and Ownership
4.41	Fixed Assets of Reporting Establishments by Type and Industrial Group – Public and Private
4.42	Fixed Assets of Reporting Establishments by Type and Industrial Group – Public
4.43	Fixed Assets of Reporting Establishments by Type and Industrial Group –Private
4.44	Fixed Assets by Size of Persons Engaged and Industrial Group-Public and Private
4.45	Fixed Assets by Size of Persons Engaged and Industrial Group-Public
4.46	Fixed Assets by Size of Persons Engaged and Industrial Group-Private
4.47	Investment in Fixed Assets of Reporting Establishments by Source and Industrial Group – Public and Private124

Table No.		Page No
4.48	Quantity of Major Raw Materials Consumed for reporting Establishments by Industrial Group – Public and Private	126
4.49	Cost of Raw Materials, Energy Consumed and Payments for Industrial and Non-Industrial Services Rendered by Industrial Group–Public and Private.	128
4.50	Cost of Raw Materials, Energy Consumed and Payments for Industrial and Non-Industrial Services Rendered by Industrial Group–Public.	130
4.51	Cost of Raw Materials, Energy Consumed and Payments for Industrial and Non-Industrial Services Rendered by Industrial Group–Private.	132
4.52	Number of Establishments and Cost of Energy Consumed by Industrial Group- Public and Private	134
4.53	Number of Establishments and Cost of Energy Consumed by Industrial Group- Public	136
4.54	Number of Establishments and Cost of Energy Consumed by Industrial Group- Private	138
4.55	Production of Major Manufactured Articles for Reporting Establishments by Industrial Group – Public and Private	140
4.56	Number of Establishments and Total Revenue from Sales by Industrial Group – Public and Private	142
4.57	Revenue from Sales by Source and Industrial Group – Public and Private	144
4.58	Revenue from Sales by Source and Industrial Group – Public	146
4.59	Revenue from Sales by Source and Industrial Group – Private	148
4.60	Advertising Expense of Reporting Establishments by Industrial Group	150
4.61	Finished Goods Stock Holding Period By Industrial Group – Public and Private	152

<u> Fable No</u> .		Page No
4.62	Finished Goods Stock Holding Period By Industrial Group –	
	Public	154
4.63	Finished Goods Stock Holding Period By Industrial Group –	
	Private	156
4.64	Work in Progress Stock Holding Period By Industrial Group –	
	Public and Private	158
4.65	Work in Progress Stock Holding Period By Industrial Group –	
	Public	160
4.66	Work in Progress Stock Holding Period By Industrial Group –	
	Private	162
4.67	Raw Material Stock Holding Period By Industrial Group –	
	Public and Private	164
4.68	Raw Material Stock Holding Period By Industrial Group –	
	Public	166
4.69	Raw Material Stock Holding Period By Industrial Group –	
	Private	168
4.70	Inventory Turnover Per Annum By Industrial Group-	
	Public and Private	170
4.71	Inventory Turnover Per Annum By Industrial Group-	
	Public	172
4.72	Inventory Turnover Per Annum By Industrial Group-	
	Private	174
4.73	Inventory Turnover in Times By Industrial Group-	
	Private	176
4.74	Inventory Turnover in Times By Industrial Group-	
	Public	178
4.75	Inventory Turnover In Times By Industrial Group-	
	Private	180

Part V. Time Series Data and Ratios of Major Industries on Manufacturing Industries, 2003/04 - 2008/09 (1997-2001 E.F.Y.)

<u>able No</u> .	Page No
5.1	Number of Establishments by Industrial Groups- Public and Private
5.2	Number of Persons Engaged by Industrial Group – Public and Private
5.3	Number of Employees by Industrial Group- Public and Private
5.4	Number of Female Employees by Industrial Group-public and Private
5.5	Wages and Salaries by Industrial Group – Public and Private191
5.6	Gross Value of Production by Industrial Group – Public and Private
5.7	Value Added in the National Account Concept (At Market Price) by Industrial Group – Public and Private195
5.8	Value Added in the National Account Concept (At Basic Price) by Industrial Group – Public and Private197
5.9	Production of Major Manufactured Articles – Public and Private
5.10	Total Value of Fixed Assets by Industrial Group-
	Public and Private
5.11	New Capital Expenditure by Industrial Group – Public and Private
5.12	Operating Surplus by Industrial Group –Public and Private
5.13	Ratio of Imported to Consumed Total Raw Material Cost by Industrial
	Group-Public and Private
5.14	Percentage Distribution of Value Added by Industrial Group – Public and Private

Table No.	Page No.
5.15	Ratio of Cost of Energy Consumed to Total Industrial Costs by Industrial Group –Public and Private
5.16	Ratio of Value Added to Gross Value of Production – Public and Private
5.17	Value Added per Person Engaged by Industrial Group – Public and Private
5.18	Ratio of Cost of Labour to Value Added by Industrial Group – Public and Private
5.19	Ratio of Cost of Labour to Gross Value of Production by Industrial Group-Public and Private
5.20	Ratio of Operating Surplus to Gross Value of Production by Industrial Group – Public and Private
Part V 20 <u>Table No</u> .	I. Time Series Data on Electricity Industry 03/04 – 2008/09 (1997-2001 E.F.Y.) <u>Page No.</u>
6.1	Number of Employees by Occupational Group and Sex in Electricity Industry
6.2	Number of Employees by Wages and Salaries Group and Sex in Electricity Industry
6.3	Wages and Salaries Paid by Occupational Group in Electricity Industry
6.4	Installed Generating Capacity and Electricity Production
6.5	Quantity of Electricity Sold and Revenue from Sales of Electricity227
6.6	Gross Revenue from Sales, Total Intermediate Cost and Value Added in the Electricity Industry
6.7	Value of Fixed Assets by Type in Electricity Industry
6.8	Investment in Fixed Assets by Type of Fixed Assets in Electricity Industry

<u>Lists of Figures</u>

Figure No.	<u>Page No</u> .
Fig. I Gross Value of Production at C 1997-2001 E.F.Y. (2003/04 –	urrent Price by Ownership, 2005/2006)24
Fig. II Value Added -Public and Priva 1997-2001 E.F.Y. (2003/04 –	ate 2008/2009.)25
Fig. III Percentage Distribution of Val 2001 E.F.Y (2008/2009.)	ue Added by Major Industrial Group,26
Fig. IV Ratio of Value Added To Tota Industrial Group, 1997-2001 E	al Raw Material Cost by a.F.Y. (2003/04 – 2008/2009.)27
Fig. V Ratio of Value Added To Gro 1997-2001 E.F.Y. (2003/04 –	ss Value of Production, 2008/2009.)28
Fig. VI Installed Generating Capacity 1997-2001 E.F.Y. (2003/04 –	of Electricity, 2008/2009.)29
Fig. VII Production of Electricity, 1997-2001 E.F.Y. (2003/04 –	2008/2009.)30
Abbreviations	
CSA - Central Statistical Agency	
E.C -Ethiopian Calendar	
E .F.Y Ethiopian Fiscal Year	
ISIC (Rev 3.1) -International Standard Activities, Revision 3	
S.N.N.P Southern Nations, Nationalit	ies and Peoples' Region
N.E.C Not Elsewhere Classified	
S.N.A System of National Account	S
CSPro -Census and Survey Processin	ng System
KW - Kilowatt KWH - Kilowatt Hour	

1. Introduction and Objectives of the Survey

1.1 Introduction

The presence of adequate and current statistical data in various economic sectors that are considered essential for development planning, socio-economic policy formulation and economic analysis is vital in promoting the economic development of a country. Based on this general objective, the Central Statistical Agency (CSA) has been conducting surveys of various economic activities, of which, the annual Large and Medium Scale Manufacturing Industries survey is one.

Manufacturing is defined here according to International Standard Industrial Classification (ISIC Revision-3.1) as "the physical or chemical transformation of materials or components into new products, whether the work is performed by power-driven machines or by hand, whether it is done in a factory or in the worker's home, and whether the products are sold at wholesale or retail. The assembly of the component parts of manufactured products is also considered as manufacturing activities."

CSA has been publishing results of the survey of Manufacturing and Electricity Industries on annual basis since 1968 Ethiopian Calendar to provide users with reliable, comprehensive and timely statistical data on these sectors. In this respect, this survey, which is conducted on annual basis, is the principal source of industrial statistics on large and medium scale manufacturing industries in the country.

This bulletin has six parts: - Part I, deals with an introduction and objective of the survey. Part II gives an overview about the survey methodology, data collection and processing. Part III presents summary of selected survey results. Part IV presents statistical tables of the survey for the year 2000 E.F.Y (2007/08). Part V deals with time series data and various ratios for the period of five years i.e. 1996-2000 E.F.Y. (2003/04 - 2007/08) for Large and Medium Scale Manufacturing Industries. Finally part VI presents the activity and performance of the Electricity Industry which also refers to the same five years period. At the end, the survey questionnaire is attached as an appendix.

1.2 Objectives of the survey

The main objectives of the annual survey of Large and Medium Scale Manufacturing and Electricity Industries are to:-

- 1. Obtain basic statistical data that are essential for policy makers, planners and researchers by major industrial group.
- 2. Collect basic quantitative information on employment, volume of quantitative information on employment, volume of production and raw materials, structure and performance of the country's Large and Medium Scale Manufacturing and Electricity Industries.
- 3. Compile statistical data which will be an input to the System of National Accounts (SNA), on Large and Medium Scale Manufacturing and Electricity establishments as a whole and by major industrial group.
- 4. Obtain the number of proprietors engaged in these sectors and find out the major problems that create stumbling blocks for their activities.

2. Survey Methodology, Data Collection and Processing

2.1 Scope, Coverage and Content

The scope of the Large and Medium Scale Manufacturing survey is confined to those establishments which engage ten persons and above and use power-driven machinery and covers both public and private industries in all Regions of the country, where establishments under the scope of the survey are found. With regard to electricity data, the survey covered *only* the electricity supplied by the Ethiopian Electric Power Corporation.

Like in the previous years, in the current survey an attempt was made to update the directory using as source of information - the licenses issued by the Ministry of Trade and Industry and corresponding bureaus of the Regional States of the country, for the public and private establishments. From this list, all manufacturing establishments which engaged ten persons and above, were selected and included in the directory of large and medium scale manufacturing establishments.

In this publication detailed information on number of establishments, number of persons engaged, and employees, wages and salaries paid by major industrial groups, sex, nationality and occupation, paid-up capital, gross value of production, industrial and non-industrial costs, value added, operating surplus, quantity of production and raw materials consumed, fixed assets, investment and production capacity are presented.

2.2 Basic Concepts and Definitions:-

- (i) An Establishment: is defined as the whole of the premises under the same ownership or management at a particular address. (e.g. Bakery, Saw mill, etc.)
- (ii) Paid -up Capital: is that part of the issued capital of an establishment that has been paid by the shareholders or the individual owner.
- (iii) Working Proprietors, Active Partners and Family Workers: include all unpaid working proprietors, active partners and members of their household who actively participate in the operation of the establishment.
- (iv) Administrative and Technical Employees:- include salaried directors and managers, technicians, superintendents, research workers, draftsmen and designers, engineers,

- chemists, architects, accountants, book-keepers, office machine operators, receptionists, sales men, delivery personnel, guards and other office staff.
- (v) **Production Workers**:- include workers directly engaged in production i.e., persons engaged in fabricating, processing, assembling, maintenance, repair, janitorial, record keeping and other associated activities.
- **(vi) Seasonal and Temporary Workers**: include workers who are employed for a whole or a part of the year. These workers are not regularly on the payroll of the establishment.
- (vii) Number Employed: includes all persons on the payroll whether seasonal or temporary workers. The number of seasonal and temporary workers has been adjusted to give equivalent of full-time worker.
- (viii) Number Engaged: includes paid employees and working proprietors. Active partners and unpaid family workers are also included here.
- (ix) Basic Wages and Salaries: includes all payments in cash made to employees during the reference year. It excludes commissions, bonuses, professional and hardship, allowances.
- (x) Wages and Salaries: includes all payments in cash or in kind made to employees during the reference year in connection with the work done for the establishments.
- (xi) Commissions, Bonuses, Professional and Hardship Allowances: refer to the total of commissions, bonuses and cost of living allowances paid in cash to employees. It excludes car allowance and perdiem.
- (xii) Supplements to Wages and Salaries of Employees: represents payments made by the employer to social security systems, insurance premiums, etc on behalf of his employees.
- (xiii) Revenue from Sales: represents the total sales value of all products and by-products during the reference year, valued at market price.
- (xiv) Receipt from Industrial Services Rendered to Others: include all contract, repair and maintenance work done to others, with raw materials and spare parts supplied by the customer.
- (xv) Receipt of Products bought and Resold: refers to revenue obtained from sales of all goods bought and resold during the reference year without any transformation or processing.
- (xvi) Other Receipts: include rental income from lease of machinery and equipment, income from sales of scrap, the value of fixed assets produced by the unit for its own use and other income.

- (xvii) Difference of Stocks in the Value of Finished Goods and Semi-Finished Goods:is the net change of stocks between the end and the beginning of the reference period in the
 value of finished and semi-finished goods.
- (xviii) Gross Value of Production: includes the sales value of all products of the establishment, the net change of stocks between the beginning and end of the reference period in the value of finished goods and the value of semi finished goods, the value of industrial services rendered to others, the value of goods bought and resold without any transformation or processing, and other receipts. The valuation of Gross Value of Production is in terms of producers' values where indirect taxes are included in the value of sales of the establishment and the value of subsidies received is excluded.
- (xix) Raw Materials: include all raw and auxiliary materials, parts and containers which are consumed during the reference year. The value of local raw materials is the value of locally produced raw materials and is the cost at the factory which includes the purchase price, transport charges, taxes and other incidental costs. The value of imported raw materials is the value of raw materials produced in other countries and obtained directly or from local source and is the cost at the factory which includes the purchase price, transport charges, taxes and other incidental costs.
- (xx) Other Industrial Services Rendered by Others: refer to contract, repair and maintenance work done by others in the reference year on materials controlled by the establishment. Included are also the cost of all goods purchased and resold without any transformation during the reference year and the cost of water consumed.
- (xxi) Industrial Cost: Includes the cost of raw materials, fuels, and other supplies consumed, cost of industrial services rendered by others, cost of goods bought and resold without any transformation or processing and cost of electricity consumed.
- (xxii) Non-industrial Cost: includes payments like professional fees, postage, telephone, insurance, advertising, hired transport, rental payments, etc. (interest, amortization and depreciation are excluded).
- (xxiii) Value Added in the National Account Concept (at Market Price):- is defined as the difference between the gross value of production and industrial and non-industrial costs.
- (xxiv) Value Added in the National Account Concept (at Basic Price):-Is the difference between gross value of production and intermediate consumption which is adjusted for tax on product such as license tax.
- (xxv) Fixed Capital Assets: are those with a productive life of one year or more which are intended for the use of the establishment including fixed assets made by the

establishment's own labour force for its own use. They are valued in this report at bookvalue at the end of the reference year that is the net book value at the beginning, plus new capital expenditure minus those sold and disposed and depreciation during the reference year.

(xxvi) Cost of goods Sold: - (CGS) – Cost is unexpired expense. Cost of goods sold represents to the amount spent to buy raw materials, to pay the labourers and other costs incurred related to the production which is sold within the accounting period.

(xxvii) Inventory: is the amount of goods produced within the accounting period or before the accounting period but not sold at the end of the year. Inventories are classified as finished goods work in process and raw materials.

(xxviii)Raw material inventory: As it is used for inventory turnover computation only includes direct material. Thus, it excludes spare parts, stationeries and packing materials. Whereas when there is only beginning or ending inventory this figure will be taken.

(xxix) Purchase of raw material: The amount spent by the enterprise to buy direct raw material during the year.

(xxx) Inventory turnover in days: is obtained by dividing the inventory to the cost of sales and multiplied by 365 days. Manufacturing companies may have an inventory turnover ratio of 60 to 100 days, this period is likely to increase as the goods made become larger and more complex.

(xxxi) Inventory turnover p. a: is obtained by dividing the cost of sale by the inventory. An increasing multiple implies that the inventory is turning over more quickly and it is a good sign.

2.3 Methods of Data Collection and Field Organization

All of CSA's branch offices were involved in this survey. The training was given in two stages the first one for all branch offices except Addis Ababa, in which 17 statisticians and 72 supervisors took part 15 editors from the head office, also attended this training. The second stage was for statisticians, supervisors and enumerators (hired on contract basis for the duration of survey period) of Addis Ababa branch office. All 35 drivers (two from Head office, seven from Addis Ababa branch and 26 from the others) which took from 30 – 45 working days, depending on the number of establishments each branch office was covering.

2.4 Data Processing

2.4.1 Editing, Coding and Verification

A number of quality control steps were taken to ensure the quality of data. The first step taken in this direction was, to revise the questionnaire, to make it easier for internal consistency checking or editing, both at field and office level. Furthermore, based on this revised questionnaire, revised instruction manual with field editing procedures were prepared in Amharic for both enumerators and supervisors (field editors). Using this manual, some editing and coding were carried out by field editors during the data collection stage.

After the majority of the completed questionnaires were brought back to head office, final editing, coding and verification were performed by editors, statistical technicians and statisticians. Finally, the edited and coded questionnaires were checked and verified by other senior professionals.

2.4.2 Data Entry, Cleaning and Tabulation

The data were entered and verified on personal computers using CSpro (Census and Survey Processing System) Software. Fifteen CSA data entry staff and one data cleaner participated in this activity for fifteen days with close supervision of the activities by two professionals. Then, the data entered were cleaned hundred percent using personal computers in combination with manual cleaning for some serious errors. Finally, the tabulation of the results was processed using the same software by one programmer with technical assistance from Industry, Trade and Services Statistics Department staff.

3. Summary of the Major Findings of the Survey

The distribution of Large and Medium Scale Manufacturing Industries by Regional states and major Industrial groups is shown in summary Table 3.1. The figures in the table indicate that, the total number of large and medium scale manufacturing establishments for the country as a whole stood at 2203 in 2001 E.F.Y. (2008/2009). It has shown an increase of 273 establishments or 14.1 percent compared to the year before in absolute and relative terms, respectively. For the country as a whole, establishments classified under manufacture of Other Non-Metallic Mineral Products industrial group constituted the largest share accounting for 27.6 percent of the total. The output by these industries among others include: glass and glass products, structural clay products, cement, lime and plaster and article of concrete, cement and plaster. Manufacture of food products and beverages and manufacture of furniture, which represented 25.5 and 16.5 percent of the total number of establishments, were in second and third position, respectively. That means the share of the three industrial groups combined was 69.6 percent of the total number of manufacturing industries, which indicates that, the Ethiopian Large and Medium Scale Manufacturing Industry is characterized by a high concentration of a limited range of manufacturing activities.

On the other hand, the figures in the same table reveal that, the distribution of large and medium scale manufacturing industries by regional states of the country is highly skewed. Slightly more than forty percent of the total large and medium scale manufacturing industries, which were operating in the reference year, were located in Addis Ababa. Following Addis Ababa, Oromiya, S.N.N.P., Amhara and Tigray Regional States covered 16.5, 14.0, 12.3 and 11.2 percent of the total establishments, respectively.

The data shown in summary Tables 3.2 and 3.3 refer to the total number of persons engaged and number of employees over five years period, i.e. 1997 - 2001 E.F.Y. (2004/5-2008/9), respectively. In 2001 E.F.Y, there were 151,303 persons engaged, out of which, 148,817 were, employees in the sector. Number of persons engaged and employees during the survey period, showed an increase of 13.2 and 12.9 percent, compared to that of 2000 E.F.Y, respectively. These increases in the number of persons engaged and employees could be attributed to the increase in the number of establishments covered in 2001 E.F.Y. An examination of the distribution of persons engaged and employees by major industrial groups reveals that manufacture of food and beverage and other non-metallic mineral manufacturing industrial groups, as could be expected, accommodated the largest number of employees. These two

industrial groups, alone, contributed nearly 44.0 percent in both number of persons engaged and number of employees throughout the period under review. The relative importance of the rest of the industrial groups in terms of employees varies between 0.1 percent in machinery and equipment manufacturers, to 12.1 percent in textile products manufacturers.

The percentage distribution of value added, which indicates the contribution level of, Large and Medium scale, manufacturing industries, to the total value added in the manufacturing sector, by industrial groups is given in summary Table 3.4 for the period 1997 - 2001 E.F.Y. The data in this table make obvious, the fact that, food and beverages manufacturing industrial group's contribution to the value added, was significantly higher than the other industrial groups, throughout the period under review. During 2001 E.F.Y., about 37.2 percent of the total manufacturing value added was generated from manufacture of food and beverage manufacturing establishments.

Following the food industries, other non-metallic mineral products, manufacturers of chemical and chemical products and manufacture of rubber & plastic products contributed 16.4, 8.9 and 5.9 percent of the total value added of the large and medium scale manufacturing establishments, respectively.

However, it is important to note here that, despite their small share in the total value added, the following industrial groups: manufacture of tobacco products, manufacture of wearing apparel, manufacture of tanning and dressing of leather; manufacture of foot wear, luggage and hand bags, manufacture of wood and of products of wood and cork, except furniture, manufacturing of chemical and chemical products, manufacture of other non-metallic mineral products, manufacture of machinery and equipment and also manufacture of furniture; increased their share of value added, while the share of the remaining six industrial groups declined in 2001 E.F.Y. as compared to that of 2000 E.F.Y.

Summary Table 3.1: Distribution of Large and Medium Scale Manufacturing Industries by Regional States* and Major Industrial Group - Public and Private 2000 E.F.Y (2007/08)

			Regional States											
Division of											Addis	Dire		
ISIC Rev. 3	Major Industrial Group	Tigray	Afar	Amhara	Oromiya	Somalie	Bensha.	SNNP	Gambella	Harari	Ababa	Dawa	Total	%
					Nu	mber of m	anufacturi							
15	Manufacture of Food Products and Beverages	36	_	45	130	7	2	54	1	7	255	25	562	25.51
16	Manufacture of Tobacco Products	-	-	-	-	-	-	-	-	-	1	-	1	0.05
17	Manufacture of Textiles	1	2	4	3	-	_	6	1	-	29	1	47	2.13
18	Manufacture of Wearing Apparel, Except						_							
	Fur Apparel	1	-	-	5	-	-	_	-	-	34	1	41	1.86
19	Tanning and Dressing of Leather; Manufacture						_							
	of Footwear, Luggage and Handbags	3	-	6	26	-	-	-	-	1	53	-	89	4.04
20	Manufacture of Wood and Products of Wood													
	and Cork, Except Furniture	1	-	2	17	-	_	12	-	-	16	-	48	2.18
	Manufacture of Paper, Paper Products and													
21 - 22	Printing	5	-	4	8	-	-	1	-	3	102	4	127	5.76
24	Manufacture of Chemicals and Chemical Products	2		-	16	-	-	1	-	-	55	1	75	3.40
25	Manufacture of Rubber and Plastic Products	2	-	-	22	-	-	1	-	-	61	1	87	3.95
26	Manufacture of Other Non-Metallic						-							
	Mineral Products	129	9	109	84	_	_	131	3	20	121	2	608	27.60
27	Manufacture of Basic Iron and Steel	4	_	_	_		_	_	_	_	13	1	18	0.82
28	Manufacture of Fabricated Metal Products						_							
	Except Machinery and Equipment	33	_	18	10	_	_	11	-	3	45	_	120	5.45
29	Manufacture of Machinery and Equipment N.E.C.	_	_	_	1	_	_	_	_	_	3	1	5	0.23
34	Manufacture of Motor Vehicles, Trailers													
	and Semi-Trailers	1	-	-	1	-	-	-	-	-	10	_	12	0.54
36	Manufacture of Furniture; Manufacturing N.E.C.	29	1	83	41	5	5	92	3	9	89	6	363	16.48
	Total	247	12	271	364	12	7	309	8	43	887	43	2,203	100.00
	%	11.21	0.54	12.30	16.52	0.54	0.32	14.03	0.36	1.95	40.26	1.95	100.00	

Summary Table 3.2: Number of Persons Engaged by Major Industrial Group - Public and Private 1996 - 2000 E.F.Y (2003/04 - 2007/08)

		Year (E.F.Y)						
Division of ISIC Rev. 3	Major Industrial Group	1997	1998	1999	2000	2001		
			Number	of Persons E	ngaged			
15	Manufacture of Food Products and Beverages	32,096	35,934	*36,049	41,681	45,371		
16	Manufacture of Tobacco Products	697	755	799	1,254	1,122		
17	Manufacture of Textiles	20,734	22,131	21,715	12,095	18,105		
18	Manufacture of Wearing Apparel, Except							
	Fur Apparel	2,643	4,128	7,621	7,635	7,822		
19	Tanning and Dressing of Leather; Manufacture							
	of Footwear, Luggage and Handbags	7,965	7,946	8,404	8,650	8,807		
20	Manufacture of Wood and Products of Wood							
	and Cork, Except Furniture	1579	1798	2037	3,231	2,144		
21 22	Manufacture of Paper, Paper Products and	7.500	0.002	0.101	0.041	8,835		
21 - 22	Printing Man Control of Charles Inc. 1 Charles I Product	7,528	8,083	8,181	8,941	8,048		
24	Manufacture of Chemicals and Chemical Products	5,977	5,674	7,045	7,778	12,007		
25	Manufacture of Rubber and Plastic Products	5,679	6,916	7,639	8,751	12,007		
26	Manufacture of Other Non-Metallic					21,084		
	Mineral Products	9,163	10,211	11,386	17,687	1,712		
27	Manufacture of Basic Iron and Steel	1,767	2,122	1,924	1,329	1,/12		
28	Manufacture of Fabricated Metal Products					6.045		
	Except Machinery and Equipment	3,913	5,903	3,547	5,237	6,045		
29	Manufacture of Machinery and Equipment N.E.C.	225	410	187	206	191		
34	Manufacture of Motor Vehicles, Trailers							
	and Semi-Trailers	1,234	1,457	3,173	1,727	1,688		
36	Manufacture of Furniture; Manufacturing N.E.C.	8,960	5,929	5,942	7,471	8,322		
	Total	110,160	119,397	*125,649	133,673	151,303		

*Revised

The data in Table 3.5 presents the ratio of imported to total consumed raw material cost by major industrial groups. It is evident that all the establishments covered in the survey consume imported raw material though the degree of the usage varies among them. The highest dependency ratio was observed in manufacture of rubber & plastic production slightly ahead of machinery and equipment manufacturing, followed by motor vehicles, trailers semi trailers manufacturing, basic iron and steel, manufacture of machinery and equipment and chemical manufacturers, respectively. The lowest level of usage of imported raw materials was observed in tobacco manufacturing followed by non-metallic mineral products manufacturing. Overall the ratio has shown ups and downs during the five year period, which stood at 52.6 percent in

2001 E.F.Y which is a slight decrease from a year earlier. This clearly shows that the Ethiopian manufacturing industry is dependent on imported raw materials

Summary Table 3.3: Number of Employees by Major Industrial Group - Public and Private 1996 - 2000 E.F.Y (2003/04 - 2007/08)

				Year (E.F.Y)		
Division of ISIC Rev. 3	Major Industrial Group	1997	1998	1999	2000	2001
			Num	ber of Emplo	yees	
15	Manufacture of Food Products and Beverages	31,693	35,660	*35,686	41,265	44,957
16	Manufacture of Tobacco Products	697	755	799	1,254	1,122
17	Manufacture of Textiles	20,701	22,100	21,702	12,088	18,070
18	Manufacture of Wearing Apparel, Except					
	Fur Apparel	2,606	4,099	7,604	7,613	7,793
19	Tanning and Dressing of Leather; Manufacture					
	of Footwear, Luggage and Handbags	7,913	7,914	8,351	8,586	8,750
20	Manufacture of Wood and Products of Wood					
	and Cork, Except Furniture	1,563	1,759	2,010	3,166	2,111
21 - 22	Manufacture of Paper, Paper Products and Printing	7,507	8,059	8,161	8,917	8,822
24	Manufacture of Chemicals and Chemical Products	5,975	5,668	7,030	7,762	8,031
25	Manufacture of Rubber and Plastic Products	5,673	6,899	7,619	8,727	11,958
26	Manufacture of Other Non-Metallic					
	Mineral Products	9,047	10,093	11,137	16,853	19,790
27	Manufacture of Basic Iron and Steel	1,762	2,122	1,923	1,328	1,710
28	Manufacture of Fabricated Metal Products					
	Except Machinery and Equipment	3,828	5,796	3,517	5,180	5,884
29	Manufacture of Machinery and Equipment N.E.C.	221	400	186	205	190
34	Manufacture of Motor Vehicles, Trailers					
	and Semi-Trailers	1,232	1,456	3,131	1,725	1,684
36	Manufacture of Furniture; Manufacturing N.E.C.	8,732	5,688	5,713	7,134	7,945
	Total	109,150	118,468	*124,569	131,803	148,817

*Revised

The data in summary table 3.6 refers to the per capita and ratios of major manufacturing indicators. In 2001 E.F.Y., gross value of production per employee and value of fixed assets per employee, value added per employee, operating surplus per employee and wages and salaries paid per employee have increased by 11.1 percent, 8.8 percent, 16.1 percent, 19.4 percent, and 5.7 percent, respectively, when compared to that of 2000 E.F.Y. It is evident from the same table that among the ratios presented, value added to total fixed capital assets, value added to gross value of production, operating surplus to gross value of production and cost of energy to value

of production showed an increase, while that of fixed assets to gross value of production, cost of labor to gross value of production, industrial costs to gross value of production decreased during the same period.

Summary Table 3.4: Percentage Distribution of Value Added* by Major Industrial Group - Public and Private 1996 - 2000 E.F.Y (2003/04 - 2007/08)

			,	Year (E.F.	Y)	
Division of ISIC Rev. 3	Major Industrial Group	1997	1998	1999	2000	2001
10,10	Tanjor Industrial Stoup	277.		Added in		2001
	Manufacture of Food Products and Beverages					37.15
15	M. C. CTI D. I	41.87	40.31	**36.48	38.51	4.02
16	Manufacture of Tobacco Products	3.41	3.73	2.86	3.63	4.92
17	Manufacture of Textiles	5.81	3.41	4.22		4.87
18	Manufacture of Wearing Apparel, Except	3.01	3.41	7,22	1.55	
10	Fur Apparel	0.53	0.56	1.21	1.22	.86
19	Tanning and Dressing of Leather; Manufacture	0.55	0.50	1.21	1.22	
1)	of Footwear, Luggage and Handbags	4.45	4.37	3.10	4.37	2.89
20	Manufacture of Wood and Products of Wood	7.13	7.57	3.10	7.57	
20	and Cork, Except Furniture	0.85	0.82	0.65	0.67	.41
21 - 22	Manufacture of Paper, Paper Products and Printing	7.93	5.34	5.50		5.68
24	Manufacture of Chemicals and Chemical Products	5.35	4.85	4.86		8.89
25	Manufacture of Rubber and Plastic Products	5.54	8.85	4.56		5.90
26	Manufacture of Other Non-Metallic	3.31	0.05	1.50		
20	Mineral Products	8.87	15.67	22.10	23.20	16.41
27	Manufacture of Basic Iron and Steel	7.87	3.92	2.86		3.39
28	Manufacture of Fabricated Metal Products	,,	5.52	2.00	20	
	Except Machinery and Equipment	3.38	3.03	5.46	3.94	4.59
29	Manufacture of Machinery and Equipment N.E.C.	0.08	0.32	0.07		.08
34	Manufacture of Motor Vehicles, Trailers	0.00	0.02	0.07	0.10	
	and Semi-Trailers	0.50	2.40	4.00	2.41	1.57
36	Manufacture of Furniture; Manufacturing N.E.C.	3.55	2.42	2.08		2.39
			. –			
	Total	100.00	100.00	100.00	100.00	100.00

^{*} In the national account concept at basic price

The ratio of cost of energy consumed to total industrial cost by major industrial groups for the period 1997-2001 E.F.Y. is presented in summary Table 3.7. The figures in this table indicate that, non-metallic mineral products manufacturing, recorded the highest proportion of cost of energy consumed to the total industrial cost, throughout the period under review, exhibiting about 62.1 percent in 2001 E.F.Y. that is an increase of 8.6 percent compared to the previous

^{**}Revised

year. This large proportion is mainly due to the high energy requirement by cement and glass and glass products manufacturing establishments.

Following non-metallic mineral products, the highest energy consumption, compared to their industrial cost was observed in manufacture of wearing apparel, despite a decline of a 2.8 percent in 2001 E.F.Y. as compared to 2000 E.F.Y.

To summarize, the total cost of energy consumed to the industrial cost was showing ups and down in the previous years. As a matter of this fact, in the 2001 E.F.Y. it has shown an increase of 16 percent as compared to the year earlier.

Summary Table 3.5: Ratio of Imported to Total Consumed Raw Material Costs by Major Industrial Group - Public and Private 1996 - 2000 E.F.Y (2003/04 - 2007/0)

		Year (E.F.Y)						
Division of ISIC Rev. 3	Major Industrial Group	1997	1998		1999	2000	2001	
		F	Ratio of i	mpo	rted rav	v materi		
15	Manufacture of Food Products and Beverages	.205	.2	206	.238	.279	.311	
16	Manufacture of Tobacco Products	.433	3.	324	.990	.138	461	
17	Manufacture of Textiles	.396	.∠	109	.415	.296	.461	
18	Manufacture of Wearing Apparel, Except							
	Fur Apparel	.212	.3	312	.527	.373	.349	
19	Tanning and Dressing of Leather; Manufacture							
	of Footwear, Luggage and Handbags	.162	.2	210	.216	.236	.261	
20	Manufacture of Wood and Products of Wood							
	and Cork, Except Furniture	.484	۷.	145	.443	.239	.365	
21 - 22	Manufacture of Paper, Paper Products and Printing	.816	.7	789	.717	.815	.737	
24	Manufacture of Chemicals and Chemical Products	.857	3.	331	.785	.871	.799	
25	Manufacture of Rubber and Plastic Products	.977	.9	918	.954	.772	.950	
26	Manufacture of Other Non-Metallic							
	Mineral Products	.054).)95	.192	.198	.186	
27	Manufacture of Basic Iron and Steel	.608	.6	572	.989	.998	.804	
28	Manufacture of Fabricated Metal Products							
	Except Machinery and Equipment	.812	.9	926	.875	.802	.866	
29	Manufacture of Machinery and Equipment N.E.C.	.961	.9	997	.962	.977	.948	
34	Manufacture of Motor Vehicles, Trailers							
	and Semi-Trailers	.986	.9	947	.850	.971	.936	
36	Manufacture of Furniture; Manufacturing N.E.C.	.421	۷.	185	.524	.525	.554	
	Total	.460	.5	501	.583	.536	.526	

The ratio in summary Table 3.8 depicts the ratio of value added to gross value of production by major industrial groups. The share of the industrial groups like that of manufacture of tobacco products, manufacture of textiles, manufacture of paper & paper products manufacturing manufacture of basic iron & steel, manufacture of fabricated metal products and manufacture of motor vehicle, trailers and semi-trailers recorded an increase while the ratio of the remaining six industrial groups declined in 2001 E.F.Y. as compared to the year before. On the other hand the ratio of value added to gross value of production for all industrial groups combined has increased by 4.7 percent during the survey year against a year ago.

Summary Table 3.6: Per Capita and Ratios of Major Indicators - Public and Private 1996 - 2000 E.F.Y (2003/04 - 2007/08)

			Year (E.F.Y)		I
Major Industrial Group	1997	1998	1999	2000	2001
			Per Capita		
Wage and Salaries Paid Per Employee	8,571	9,237	**10,198	12,730	13,458
Gross Value of Production Per Employee	112,839	127,014	**149,173	174,399	193,722
Value Added* Per Employee	27,766	31,036	**39,589	45,005	52,269
Operating Surplus Per Employee	19,140	21,734	**29,334	32,223	38,485
Value of Fixed Asset Per Employee	60,641	59,064	**59,939	64,659	70,378
			Ratio		
Fixed Assets to Gross Value of Production	.537	.465	.402	.371	.363
Cost of Labour to Gross Value of Production	.076	.073	**.068	.073	.069
Industrial Costs to Gross Value of Production	.541	.542	.506	.513	.507
Cost of Energy to Gross Value of Production	.058	.054	.054	.051	.059
Value Added* to Gross Value of Production	.246	.244	.265	.258	.270
Operating Surplus to Gross Value of Production	.170	.171	**.197	.185	.199
Value Added* to Total Fixed Capital	.458	.525	**.660	.696	.743

^{*} In the national account concept at factor cost

The ratio of cost of labour to gross value of production for major industrial groups, which roughly measures, labour productivity, is treated in summary table 3.9. It is evident from the data in this table, that, the ratio of cost of labour to gross value of production varies across major industrial groups. In 2001 E.F.Y., the highest ratios were registered in manufacturing of wood and products of wood and cork, while both manufacture of tobacco products & manufacture of chemicals registered equally the lowest ratio, respectively. Ratio of cost of labour to gross value of production for all manufacturing industries combined, showed a continuous decline in the past four years and except in 2000 E.F.Y.

^{**}Revised

The ratio of operating surplus to gross value of production by major industrial groups combined is presented in summary table 3.10. The share of nine out of fifteen major industrial groups and the overall average exhibited an increase in 2001 E.F.Y against that of 2000 E.F.Y.

Summary Table 3.7: Ratio of Cost of Energy Consumed to Total Industrial Cost by Major Industrial Group - Public and Private 1996 - 2000 E.F.Y (2003/04 - 2007/08)

				Year (E.F.Y	7)	
Division of ISIC Rev. 3	Major Industrial Group	1997	1998	1999	2000	2001
	<u> </u>		Ratio of c	ost of energ	y consum	ed
15	Manufacture of Food Products and Beverages	.118	.0	62 .082	.058	.053
16	Manufacture of Tobacco Products	.006	.0.	34 .026	.030	.001
17	Manufacture of Textiles	.116	.1	09 .108	.122	.116
18	Manufacture of Wearing Apparel, Except					
	Fur Apparel	.018	.0	20 .160	.181	.176
19	Tanning and Dressing of Leather; Manufacture					
	of Footwear, Luggage and Handbags	.019	.0	27 .024	.029	.035
20	Manufacture of Wood and Products of Wood			_,		
	and Cork, Except Furniture	.243	.2	32 .178	.090	.167
21 - 22	Manufacture of Paper, Paper Products and Printing	.045	.0	63 .048	.052	.060
24	Manufacture of Chemicals and Chemical Products	.041	.0	38 .031	.031	.026
25	Manufacture of Rubber and Plastic Products	.085	.0.	.064	.038	.059
26	Manufacture of Other Non-Metallic					
	Mineral Products	.461	.5	81 .605	.572	.621
27	Manufacture of Basic Iron and Steel	.018	.0.	.012	.008	.088
28	Manufacture of Fabricated Metal Products					
	Except Machinery and Equipment	.037	.0	42 .042	.035	.029
29	Manufacture of Machinery and Equipment N.E.C.	.013	.0	02 .014	.007	.018
34	Manufacture of Motor Vehicles, Trailers					
	and Semi-Trailers	.032	.0	07 .011	.023	.029
36	Manufacture of Furniture; Manufacturing N.E.C.	.021	0	19 .014	.025	.015
30	indicate of a similar, manufacturing m.D.C.	1.021	.0	.014	.023	.015
	Total	.107	.1	00 .106	.100	.116

Summary Table 3.8: Ratio of Value Added* to Gross Value of Production by Major Industrial Group
Public and Private 1996 - 2000 E.F.Y (2003/04 - 2007/08)

			F.Y)			
Division of ISIC Rev. 3	Major Industrial Group	1997	1998	1999	2000	2001
		Ratio		added*		s value of
				produci	иоп	
15	Manufacture of Food Products and Beverages	.287	.274	.301	.261	.249
16	Manufacture of Tobacco Products	.318	.331	.301	.379	.607
17	Manufacture of Textiles	.196	.136	.189	.131	.265
18	Manufacture of Wearing Apparel, Except					
	Fur Apparel	.258	.257	.218	.186	.164
19	Tanning and Dressing of Leather; Manufacture					
	of Footwear, Luggage and Handbags	.137	.157	.126	.179	.169
20	Manufacture of Wood and Products of Wood					
	and Cork, Except Furniture	.445	.420	.355	.334	.278
21 - 22	Manufacture of Paper, Paper Products and Printing	.308	.247	.281	.261	.345
24	Manufacture of Chemicals and Chemical Products	.206	.192	.207	.205	.266
25	Manufacture of Rubber and Plastic Products	.244	.331	.211	.178	.240
26	Manufacture of Other Non-Metallic					
	Mineral Products	.231	.344	.434	.448	.365
27	Manufacture of Basic Iron and Steel	.220	.105	.096	.135	.219
28	Manufacture of Fabricated Metal Products					
	Except Machinery and Equipment	.216	.211	.370	.194	.218
29	Manufacture of Machinery and Equipment N.E.C.	.175	.085	.226	.215	.263
34	Manufacture of Motor Vehicles, Trailers					
	and Semi-Trailers	.063	.209	.159	.181	.239
36	Manufacture of Furniture; Manufacturing N.E.C.	.323	.309	.333	.315	.284
	Total	.246	.244	.265	.258	.270

^{*} In the national account concept at basic price

Summary Table 3.9: Ratio of Cost of Labour to Gross Value of Production by Major Industrial Group - Public and Private 1996 - 2000 E.F.Y (2003/04 - 2007/08)

			Y	ear (E.F.	Y)	
Division of ISIC Rev. 3	Major Industrial Group	1997	1998	1999	2000	2001
			Ratio	of cost of	labour	004
15	Manufacture of Food Products and Beverages	.073	.072	*.073	.067	.064
16	Manufacture of Tobacco Products	.043	.055	.056	.108	.044
17	Manufacture of Textiles	.131	.144	.122	.140	.115
18	Manufacture of Wearing Apparel, Except					
	Fur Apparel	.207	.316	.224	.188	.150
19	Tanning and Dressing of Leather; Manufacture					
	of Footwear, Luggage and Handbags	.070	.072	.060	.061	.074
20	Manufacture of Wood and Products of Wood					
	and Cork, Except Furniture	.183	.172	.184	.196	.169
21 - 22	Manufacture of Paper, Paper Products and Printing	.097	.107	.099	.113	.110
24	Manufacture of Chemicals and Chemical Products	.072	.060	076	.061	.044
25	Manufacture of Rubber and Plastic Products	.069	.055	.059	.054	.065
26	Manufacture of Other Non-Metallic					
	Mineral Products	.066	.059	.044	.074	.071
27	Manufacture of Basic Iron and Steel	.026	.022	.021	.025	.051
28	Manufacture of Fabricated Metal Products					
	Except Machinery and Equipment	.072	.079	.062	.056	.054
29	Manufacture of Machinery and Equipment N.E.C.	.098	.078	.102	.064	.089
34	Manufacture of Motor Vehicles, Trailers					
	and Semi-Trailers	.073	.057	.037	.050	.082
36	Manufacture of Furniture; Manufacturing N.E.C.	.152	.122	.136	.139	.116
	Total	.076	.073	*.068	.073	.069

*Revised

Summary Table 3.10: Ratio of Operating Surplus to Gross Value of Production by Major Industrial Group Public and Private 1996 - 2000 E.F.Y (2003/04 - 2007/08)

		Yea						
Division of ISIC Rev. 3	Major Industrial Group	1997	1998	1999 operating	2000 Surplus	2001		
15	Manufacture of Food Products and Beverages	.213	.202		.193	.185		
16	Manufacture of Tobacco Products	.275	.275		.270	.564		
17	Manufacture of Textiles	.065	010		011	.148		
18	Manufacture of Wearing Apparel, Except	.005	010	.007	011			
10	Fur Apparel	.050	060	007	003	.084		
19	Tanning and Dressing of Leather; Manufacture	1000	.000	.007	.002			
	of Footwear, Luggage and Handbags	.067	.084	.066	.118	.094		
20	Manufacture of Wood and Products of Wood							
	and Cork, Except Furniture	.261	.247	.169	.138	.109		
21 - 22	Manufacture of Paper, Paper Products and Printing	.211	.139		.148	.234		
24	Manufacture of Chemicals and Chemical Products	.133	.131		.144	.222		
25	Manufacture of Rubber and Plastic Products	.174	.275		.123	.175		
26	Manufacture of Other Non-Metallic							
	Mineral Products	.165	.284	.389	.374	.294		
27	Manufacture of Basic Iron and Steel	.194	.082		.109	.168		
28	Manufacture of Fabricated Metal Products							
	Except Machinery and Equipment	.144	.131	.308	.138	.165		
29	Manufacture of Machinery and Equipment N.E.C.	.075	.007	.124	.150	.173		
34	Manufacture of Motor Vehicles, Trailers							
	and Semi-Trailers	012	.151	.122	.131	.157		
36	Manufacture of Furniture; Manufacturing N.E.C.	.169	.185	.195	.175	.167		
	Ç							
	Total	.170	.171	*.197	.185	.199		

*Revised

During the survey, establishments that worked less than 12 months were asked to state their reasons for not working the whole year, during the reference period and the results are presented in summary table 3.11.

It can be observed that among 1,088 establishments which operated less than 12 months, during the reference period, 31.0 percent and 30.5 percent indicated that shortage of supply of raw materials and shortage of electricity (a significant increase over the previous year) followed by

lack of market for their produce (7.9 percent). Close to ten percent of the establishments gave other reasons.

In a similar note to the above, establishments which were not working at full capacity were asked to state their reasons for working below capacity during the reference period and the responses are displayed in summary table 3.12. Shortage of supply of raw materials and absence of market demand emerged as the first and second major causes for under utilization of capacity.

In a similar way, the data in summary table 3.13 depict the first major problems faced by establishments during the survey period. As the data in the table indicate, 34.1 percent of the establishments reported that the first major current operating difficulty was shortage of supply of raw materials, followed by absence of market demand which was reported by 15.3 percent of the total reporting establishments.

Summary Table 3.11: Percentage Distribution of Establishments by First Major Reason for Not Being Fully Operational and and Major Industrial Group - Public and Private 2001 E.F.Y (2008/09)

		Type of reasons Chartege										
		Shortage of	Shortage of				Shortage of		Obstacles			
		supply of	supply of	Lack of	Absence of	Lack of	electricity	Frequent	from Gov.			
Division of		raw	spare	foreign	market	working	and water	machinery	Rules and		Not	
ISIC Rev. 3	Major Industrial Group	materials	parts	exchange	demand	capital	supply	breakage	regulations	Others	stated	
					Percent	age distributio	on of establishn	ments				
15	Manufacture of Food Products and Beverages	50	2	3	19	6	60	9	4	28	27	
16	Manufacture of Tobacco Products	-	-	-	-	-	-	-	-	-	-	
17	Manufacture of Textiles	6	1	1	2	-	13	-	-		1	
18	Manufacture of Wearing Apparel, Except									3		
	Fur Apparel	4	-	-	1	-	4	-	-	-	2	
19	Tanning and Dressing of Leather; Manufacture											
	of Footwear, Luggage and Handbags	9	-	1	5	4	33	-	1	2	-	
20	Manufacture of Wood and Products of Wood											
	and Cork, Except Furniture	11	1	-	2	1	8	1	-	1	3	
21 - 22	Manufacture of Paper, Paper Products and Printing	4	-	4	2	-	7	-	-	1	1	
24	Manufacture of Chemicals and Chemical Products	4	-	-	2	1	14	1	-	2	4	
25	Manufacture of Rubber and Plastic Products	8	-	2	1	-	30	-	-	3	3	
26	Manufacture of Other Non-Metallic											
	Mineral Products	216	9	-	28	15	94	19	10	49	43	
27	Manufacture of Basic Iron and Steel	2	1	-	-	2	3	-	-	-	-	
28	Manufacture of Fabricated Metal Products											
	Except Machinery and Equipment	10	-	3	5	-	18	-	5	6	8	
29	Manufacture of Machinery and Equipment N.E.C.	-	-	-	1	-	-	-	-	-	-	
34	Manufacture of Motor Vehicles, Trailers											
	and Semi-Trailers	-	-	-	-	1	1	-	-	-	-	
36	Manufacture of Furniture; Manufacturing N.E.C.	13	-	-	18	4	47	2	-	11	21	
	Total	337	14	14	86	34	332	32	20	106	113	
	%	30.97	1.29	1.29	7.90	3.13	30.51	2.94	1.84	9.74	10.39	

Summary Table 3.12: Percentage Distribution of Establishments by First reason for not working at full capacity and Major Industrial Group - Public and Private 2001 E.F.Y (2008/09)

				Γ	Type of reaso	ons				
Division of ISIC Rev. 3	Major Industrial Group	Shortage of supply of raw materials	Shortage of supply of spare parts	Absence of market demand	Absence of credit facility	Shortage of foreign Exchange	Lack of Adequate Skills	Others	Not stated	Total
15	March description of Description	134	0		er of establis		5	4	1.00	477
15 16	Manufacture of Food Products and Beverages Manufacture of Tobacco Products	134	8	122	24	20	3	4	160	477
		- 12	-	-	-	-	_	2	16	- 44
17	Manufacture of Textiles	13	2	3	4	4	-	2	16	44
18	Manufacture of Wearing Apparel, Except	20		2	2			1	10	26
10	Fur Apparel	20	-	3	2	-	-	1	10	36
19	Tanning and Dressing of Leather; Manufacture	20	~			2	1	4	4.1	0.7
20	of Footwear, Luggage and Handbags	20	5	6	6	2	1	4	41	85
20	Manufacture of Wood and Products of Wood	10	4	4	4	2	1	4	10	4.4
24 22	and Cork, Except Furniture	19	1	1	1	2	1	1	18	44
21 - 22	Manufacture of Paper, Paper Products and Printing	28	5	19	2	1	1	-	45	101
24	Manufacture of Chemicals and Chemical Products	29	-	5	5	1	1	-	28	69
25	Manufacture of Rubber and Plastic Products	25	1	6	4	7	-	-	39	82
26	Manufacture of Other Non-Metallic									
	Mineral Products	274	30	47	21	34	5	14	155	580
27	Manufacture of Basic Iron and Steel	7	-	-	-	1	=	-	9	17
28	Manufacture of Fabricated Metal Products									
	Except Machinery and Equipment	35	1	17	14	-	1	3	34	105
29	Manufacture of Machinery and Equipment N.E.C.	1	1	1	-	-	1	-	=	4
34	Manufacture of Motor Vehicles, Trailers									
	and Semi-Trailers	2	-	-	3	-	-	-	4	9
36	Manufacture of Furniture; Manufacturing N.E.C.	.69	3	113	24	4	5	6	112	336
	Total	676	57	343	110	76	21	35	671	1,989
	%	33.99	2.87	17.24	5.53	3.82	1.06	1.76	33.74	100.00

Summary Table 3.13: Distribution of Establishments by Type of First Major Operational problems faced by the establishments during the survey period and Major Industrial Group - Public and Private 2001 E.F.Y (2008/09)

						Туре	of reasons						
		Shortage of	Shortage of										
Division		supply of	supply of	Absence	Lack of	Frequent	Lack of	Problem	Government	No	Others		
of		raw	spare	of market	working	Machinery	working	with	Rules and	Problems		Not	
ISIC Rev.	Major Industrial Group	materials	parts	demand	capital	Failure	premises	employees	regulations	Faced		stated	Total
			-	-1	1 •	•	establishmer			•		•	
15	Manufacture of Food Products and Beverages	152	7	107	32	15	13	3	28	44	138	-	539
16	Manufacture of Tobacco Products	-	-	-	-		-	-	-	-	-	-	-
17	Manufacture of Textiles	14	7	3	5	3	1	-	2	1	10	-	46
18	Manufacture of Wearing Apparel, Except												
	Fur Apparel	21	-	3	2	-	-	-	1	2	11	-	40
19	Tanning and Dressing of Leather; Manufacture												
	of Footwear, Luggage and Handbags	29	5	7	7	1	1	1	2	4	30	-	87
20	Manufacture of Wood and Products of Wood												
	and Cork, Except Furniture	19	2	1	3	3	1	1	3	2	10	-	45
21 - 22	Manufacture of Paper, Paper Products and Printing	36	5	16	5	3	1	1	1	11	40	-	119
24	Manufacture of Chemicals and Chemical Products	30	-	6	7	4	-	-	2	2	19	-	70
25	Manufacture of Rubber and Plastic Products	24	2	3	4	6	1	-	-	2	43	-	85
26	Manufacture of Other Non-Metallic												
	Mineral Products	275	17	65	49	30	10	6	27	6	112	-	597
27	Manufacture of Basic Iron and Steel	9	-	2	-	-	-	-	-	-	7	-	18
28	Manufacture of Fabricated Metal Products												
	Except Machinery and Equipment	38	2	20	7	1	5	1	8	7	26	-	115
29	Manufacture of Machinery and Equipment N.E.C.	4	-	-	-	-	-	-	-	-	1	-	5
34	Manufacture of Motor Vehicles, Trailers												
	and Semi-Trailers	1	-	-	1	2	1	1	-	-	3	-	9
36	Manufacture of Furniture; Manufacturing N.E.C.	75	2	94	35	5	37	9	9	7	83	-	356
	Total	727	49	327	157	73	71	23	83	88	533	-	2131
	%	34.12	2.30	15.34	7.37	3.43	3.33	1.08	3.89	4.13	25.01	-	100.00

FIG. I Gross Value of Production at Current Price by Ownership 1995 - 1999 E.F.Y (2002/03 - 2006/07)

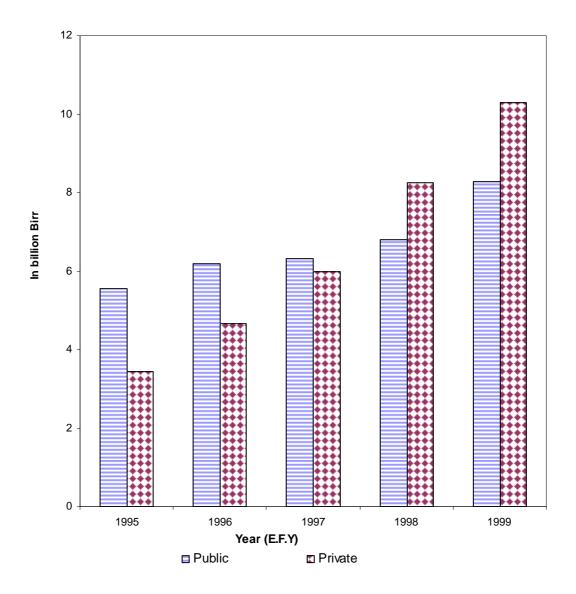
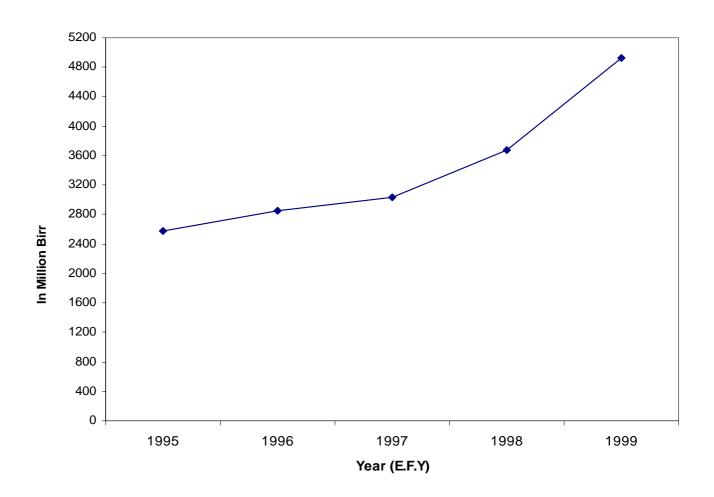


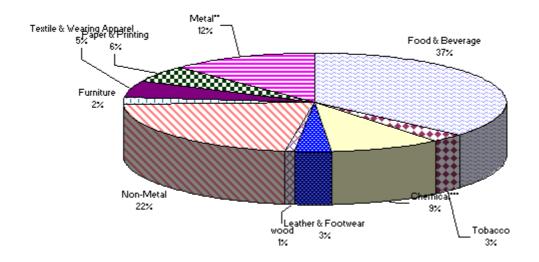
FIG. II Value Added* Puplic and Private 1995- 1999 E.F.Y (2002/03- 2006/07)



*In the National Account Concept at Basic Price

FIG. III Percentage Distribution of Value Added*

by Major Industrial Group 1999 E.F.Y (2006/7)

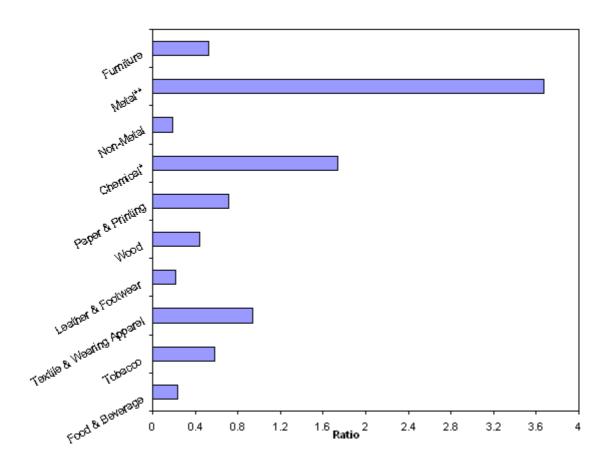


^{*} In the National Account Concept at Basic Price

^{**} Includes Basic Iron, Fabricated Metal, Machinery and Motor Vehicles

^{***} Includes Rubber and Plastic

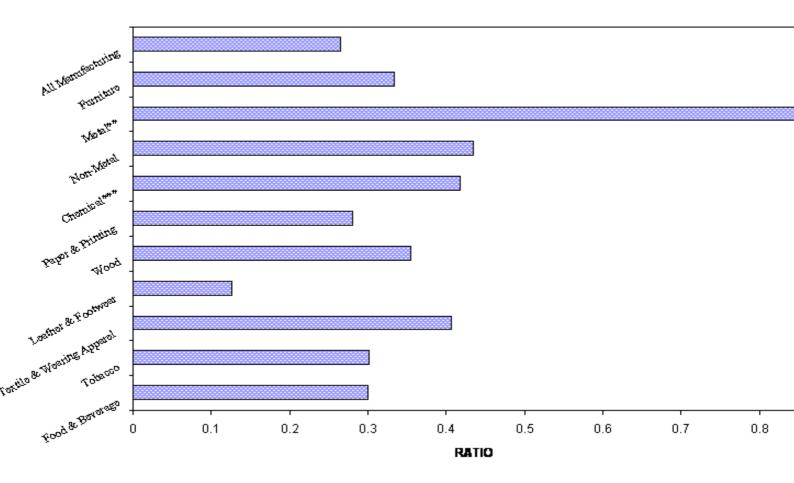
FIG. IV Ratio of Imported to Total Raw Material Cost by Major Industrial Group 1999E.F.Y 2006/07



^{*}Includes Rubber and Plastics

^{**}Includes Basic Iron,Fabricated Metal,Machinery and Motor Vehicles

FIG. V - Ratio of Value Added* to Gross Value of Production 1999 E.F.Y (2006/07)



^{*} In the National Account Concept at Basic Price

^{**} Includes Basic Iron, Fabricated Metal, Machinery and Motor Vehicles

^{***} Includes Rubber and Plastic

FIG. VI - Installed Generating Capacity of Electricity 1995- 1999 E.F.Y (2002/03- 2006/07)

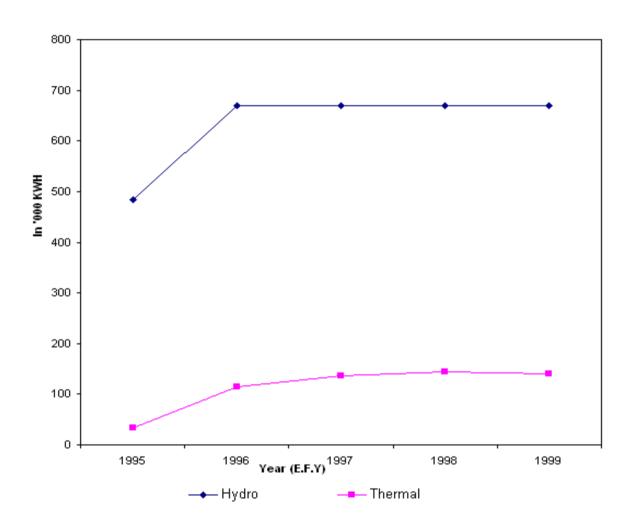
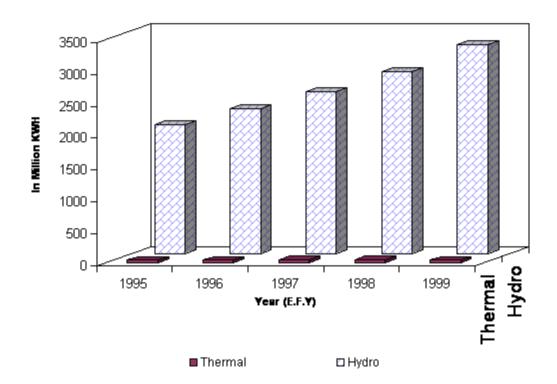


FIG. VII - Production of Electricity 1995- 1999 E.F.Y (2002/03 - 2006/07)



					TYPE	OF REASONS					
INDUSTRIAL GROUP	SHORTAGE OF SUPPLY OF RAW MATERIALS	OF SPARE	LACK OF FOREIGN EXCHANGE	ABSENCE OF MARKET DEMAND	LACK OF WORKING CAPITAL	SHORTAGE OF ELECTRICITY AND WATER SUPPLY		OBSTACLES FROM GOV. RULES AND REGULATIONS	OTHERS	NOT STATED	TOTAL
MANUFACTURE OF FOOD PRODUCTS AND BEVERAGES	50	2	3	19	6	60	9	4	28	27	208
MANUFACTURE OF TOBACCO PRODUCTS	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURE OF TEXTILES	6	1	1	2	-	13	-	-	3	1	27
MANUFACTURE OF WEARING APPAREL, EXCEPT FUR APPAREL	4	-	-	1	-	4	-	-	-	2	11
TANNING AND DRESSING OF LEATHER; MANUFACTURE OF FOOTWEAR, LUGGAGE AND HANDBAGS	9	-	1	5	4	33	-	1	2	-	55
MANUFACTURE OF WOOD AND OF PRODUCTS OF WOOD AND CORK, EXCEPT FURNITURE	11	1	-	2	1	8	1	-	1	3	28
MANFACTURE OF PAPER, PAPER PRODUCTS AND PRINTING	4	-	4	2	-	7	-	-	1	1	19
MANUFACTURE OF CHEMICALS AND CHEMICAL PRODUCTS	4	-	-	2	1	14	1	-	2	4	28
MANUFACTURE OF RUBBER AND PLASTIC PRODUCTS	8	-	2	1	-	30	-	-	3	3	47
MANUFACTURE OF OTHER NON-METALLIC MINERAL PRODUCTS	216	9	-	28	15	94	19	10	49	43	483
MANUFACTURE OF BASIC IRON AND STEEL	2	1	-	-	2	3	-	-	-	-	8
MANUFACTURE OF FABRICATED METAL PRODUCTS EXCEPT MACHINERY AND EQUIPMENT	10	-	3	5	-	18	-	5	6	8	55
MANUFACTURE OF MACHINERY AND EQUIPMENT N.E.C.	-	-	-	1	-	-	-	-	-	-	1
MANUFACTURE OF MOTOR VEHICLES, TRAILERS & SEMI-TRAILERS	-	-	-	-	1	1	-	-	-	-	2
MANUFACTURE OF FURNITURE; MANUFACTURING N.E.C	13	-	-	18	4	47	2	-	11	21	116
T O T A L	337 30.97	14 1.29					32 2.94		106 9.74		1,088 100.00