



Prepared by Kenya National Bureau of Statistics in collaboration with the Ministry of Industrialization

February 2013

Basic Report on The 2010 Census of Industrial Production (CIP)

KENYA NATIONAL BUREAU OF STATISTICS

P. O. BOX 30266~00100, Herufi House Nairobi, Kenya

Tel: +254~20~317583/6 Fax: +254~020~315977

Website: http://www.knbs.or.ke

Email: info@knbs.or.ke / directorgeneral@knbs.or.ke

ISBN: 9966 - 767 - 44 - 4

All Rights Reserved
Copyright© 2013
Extracts may be published if the source is duly acknowledged.

Foreword

Over the period starting from November 2010 to April 2011, Kenya National Bureau of Statistics in conjunction with the Ministry of Industrialization conducted a Census of Industrial Production (CIP).

The main objective of the 2010 CIP was to collect data on the characteristics and structure of units engaged in industrial and construction activities in Kenya for 2009 as defined by the International Standards of Industrial Classifications of all Economic Activities (ISIC Rev. 4). Specifically, the CIP was meant to provide;

- Baseline data on the industrial structure of the economy,
- Improvement in the quality of industrial statistics by capturing changes in the industrial sector,
- A basis of comparison with other countries,
- Information for policy formulation, implementation, monitoring and evaluation,
- An industrial database reflecting changes in the structure of industry,
- A sampling frame for industrial surveys, and
- A reliable primary data source for the compilation of input-output tables and other national accounts statistics.

This report highlights findings from the census as well as the data collection methodology which was mainly by direct interviews. Necessitated by the need to get an overall picture of all the industrial sectors of the economy, imputations were done in respect of those establishments which did not respond. Therefore, at the analysis stage, the imputed estimates as well as data from other sources outside the CIP were considered alongside available real CIP responses.

I wish to thank the Ministry of Industrialization for collaborating in planning and executing the exercise. Further, I do appreciate with gratitude all the respondent enterprises, whose co-operation in providing the required data was vital to the success of the census. Last but not least, my special thanks go to all members of staff who gave valuable contributions in field data collection, data analysis and report preparation.

Zachary C. Mwangi

A.g. Director General

Kenya National Bureau of Statistics

Executive Summary

The overall aim of the 2010 Census of Industrial Production (CIP), was to provide comprehensive information on the structure of the industrial activities in Kenya. The exercise targeted an estimated total of 3,000 registered establishments in the country. The CIP 2010 focused on various characteristics of formal establishments that included the economic activities at the four digit ISIC, employment, ownership structure, production and installed capacity, inventories, intermediate consumption, incomes, sales, ICT and fixed assets, among others. A total of 1,814 formal establishments/firms responded for the industrial enquiry. Imputations were done for 438 establishments that did not respond based on other regular surveys and other administrative sources. The final results as reflected in the report are aggregated at the two digit (division) of ISIC.

The total output of the industrial sector in 2009 was KSh 1,009.2 billion with total gross value added of KSh 319.8 billion. Manufacturing activities recorded the largest share of industrial production, accounting for 90.3 per cent of total value of industrial output. This was followed by electricity, gas, steam and air conditioning supply which recorded 7.9 per cent of the total output. The total number of persons engaged as at June 2009 was 324,841 with about half of them based in Nairobi. The manufacturing sector accounted for about 94 per cent of total employment within the industrial sector. Most of the employees in industry were males at 77.2 per cent.

A total of 30 per cent of establishments reported capacity utilization below 50 per cent. Some of the key reasons cited by the establishments leading to under-utilization were the high cost of fuels, electricity and raw materials during the reference period.

Overall, the value of inputs into the sector's production process was estimated at KSh 701.9 billion, of which KSh 689.3 billion was intermediate consumption. Cost of raw materials constituted 81.2 per cent of the inputs into the process of production activities of sectors. Energy and water accounted for 8.1 per cent of the input costs while expenditure on other type of inputs amounted to 10.6 per cent. In 2009, inventories were estimated to have reduced by KSh 902.6 million which could have been attributed to an upsurge in economic growth after a slowdown in 2008. Finally, value added (contribution to GDP) of the formal industrial sector was KSh 319.8 billion.

In 2009, the total sales of industry in Kenya was KSh 1,015.4 billion with Manufacturing activities contributing the largest share of sales at 87.7 per cent. Electricity, Gas, Steam and Air Conditioning Supply was second while Water and Sewerage Services had the lowest level of sales at KSh 10.4 billion. Most of the goods produced in Kenya are sold locally, accounting for 83.5 per cent of all sales, East African countries consume 5.4 per cent while 11.8 per cent is exported to the Rest of the World (RoW).

Abbreviations & Acronyms

BEE Business Expectations Enquiries

CBR Central Business Register
CIF Container including Freight
CIP Census of Industrial Production
CPC Central Product Classifications

EAC East African Community
EPZ Export Processing Zone
GDP Gross Domestic Product

GFCF Gross Fixed Capital Formation

GO Gross Output

HS Harmonized System

IC Intermediate Consumption

IIRPD Industrial Information, Research and Policy Development IRIS International Recommendation of Industrial Statistics

ISIC International Standards of Industrial Classifications of All Economic Activities

JICA Japan International Cooperation Agency KNBS Kenya National Bureau of Statistics

LE Labour Enumeration

MOI Ministry of Industrialization

MoSPND Ministry of State for Planning, National Development and Vision 2030

MSIP Monthly Survey of Industrial Production

NHIF National Hospital Insurance Fund NSSF National Social Security Fund

RoW Rest of the World

SAPs Structural Adjustment Programmes

SNA System of National Accounts

STATCAP Statistical Capacity
TA Technical Assistance
VAT Value Added Tax

UNIDO United Nations Industrial Development Organization

VA (GVA) Value added (Gross)

Table of Contents

Forewo	ord	iii
Executi	ive Summary	iv
Abbrev	riations & Acronyms	v
List of	Tables	viii
List of 1	Figures	ix
Chapte	er 1	1
Genera	al Overview	1
1.1	Introduction	1
1.2	Historical Background	1
1.3	Legal Authority and Confidentiality	2
1.4	Objectives and Purpose	2
1.5	Reference Period	2
Chapte	er 2	4
Method	dology	4
2.1	Data Sources	4
2.2	Population and sampling frame	4
2.3	Survey Organization and Fieldwork	4
2.4	Variables and Definitions	5
2.5	Response Rate	6
2.6	Treatment of non-respondents	9
2.7	Challenges	9
Chapte	er 3	10
Owner	ship Structure, Employment and Earnings	10
3.1	Introduction	10
3.2	Type of Ownership	10
3.3	Employment and Citizenship	10
3.4	Employment Status	13
3.5	Employment by Industry Subsectors and Towns	17
3.6	Labour Earnings by Industry Subsector	19
Chapte	er 4	23
Industr	rial Production	23
4.1	Introduction	23
4.2	Value of Industrial Production	23
4.3	Capacity Utilization by Establishments	26

4.4	Reasons for Capacity Underutilization	27
Chapte	r 5	30
Inputs i	n Industrial Production	30
5.1	Introduction	30
5.2	Components of material cost	31
5.3	Expenditure on raw materials	33
5.4	Expenditure on Electricity, Water and Fuel	36
5.5	Other Operating Expenses	37
Chapte	r 6	41
Market	ing of Industrial Products	41
6.1	Market Destination of Industrial Output	41
Chapte	r 7	43
Industr	ial Investments	43
7.1	Introduction	43
7.2	Additions to Fixed Assets and Gross Fixed Capital Formation	43
7.3	Inventories	45
7.4	Investments	47
7.5	Contribution of Industrial Sector to the GDP in 2009	48
Notes		51
Append	lix 1: Questionnaire	52
Append	lix 2 Distribution of establishments by Industries and counties	73

List of Tables

Table 2.1	Definition of Variables	6
Table 2.2	Number of Establishments/Firms covered by Industry	7
Table 2.3	Number of Establishments Covered	8
Table 3.1	Type of ownership	10
Table 3.2	Employment Levels by Industry and Citizenship, June 2009	12
Table 3.3:	Distribution of Employees by Industry and Type of Worker, June 2009	14
Table 3.4:	Distribution of Regular and Casual Workers by Industry and Gender, June 2009	16
Table 3.5	Distribution of Workers by Industry and Industrial Towns, June 2009	18
Table 3.6	Total Employment and Payments to Workers by Industry, June 2009	20
Table 3.7	Average Monthly Earnings to Workers by Industry, June 2009	22
Table 4.1	Production Value by Industry	23
Table 4.2	Detailed Production Value by Industry	25
Table 4.3	Percentage Level of Capacity Utilization by Economic Activity	26
Table 4.4	Capacity Utilization by Industry	27
Table 4.5	Reasons for Capacity Underutilization	28
Table 5.1	Share of Input Components in Total Intermediate Consumption by Activity	33
Table 5.2	Annual Expenditures on Raw Materials by Activity and Source, KSh Million	35
Table 5.3	Annual Expenditures on Petroleum Products, Electricity and Water and Other Fuels	by
	Activity (KSh Million)	37
Table 5.5	Broad Expenditure Categories by Activity	40
Table 6.1	Value of Sales by Destination, KSh Million	41
Table 6.2	Value of Sales to Various Regions, KSh Million	42
Table 7.1	Fixed Assets by Type and Industry KSh Million	44
Table 7.2	Changes in Inventories by Activity and Type of Product, 2009 KSh. Million	46
m 11 = 0		
Table 7.3	Industrial Investment	48

List of Figures

Figure 4.1:	Percentage Share of Industrial Production	24
Figure 4.2:	Establishments in relation to reasons given for low capacity utilization	29
Figure 5.1:	Components of Material Expenditures by Broad Economic Activity	32
Figure 5.2:	Expenditure on Raw Materials by Activity and Source of Supply	34
Figure 5.3: Fuels by Activ	Annual Expenditure Shares on Petroleum Products, Electricity and Water, ar	
Figure 5.4:	Components of "other operating expenses"	38
Figure 7.1:	Contribution to Industrial Sector GDP	5C

Chapter 1

General Overview

1.1 Introduction

The overall aim of the 2010 Census of Industrial Production (CIP) was to provide comprehensive information on the structure of the industrial activities in Kenya. The activities included in the census were mining and quarrying, manufacturing, electricity, gas, steam, air conditioning supply, water supply, sewerage, waste management and remediation activities. The 2010 CIP targeted an estimated total of 3,000 registered establishments in the country. The CIP focused on various facets of formal establishments that include number of employees, sales, costs/expenses, salaries and wages. The Census followed International Recommendations on Industrial Statistics (IRIS 2008) and UNIDO Guidelines on Industrial Statistics as part of the key reverence documents. Results from the CIP would enable KNBS to compile key statistics on the economy such as;

- Gross Domestic Product (GDP) associated with industrial activities.
- The total value of sales used alongside the inventories to calculate production statistics.
- Total sales of individual product, and external trade data, used to estimate the size of the Kenyan market for particular goods.

The 2010 CIP is a product of joint effort of Ministry of Industrialization (MOI) and Kenya National Bureau of Statistics (KNBS).

1.2 Historical Background

The last Census of Industrial Production (CIP) conducted by the Kenya government was in 1977. Past efforts to carry out a similar census were hampered by limitation of funds. However, an attempt was made to conduct one in 1987 but the results were not analyzed because of low response levels. Nevertheless, a detailed up-to-date data for use in measurement of industrial performance has been a key priority for the government. Currently the only industrial statistics available are those compiled under the Monthly Survey of Industrial Production (MSIP), which is based on a countrywide sample of 600 establishments. The statistics received from MSIP are however limited to manufacturing sector and performance indicators of value and quantity of production. Thus, the 2010 CIP was conducted as a primary statistical inquiry that aimed at covering all industrial establishments in Kenya.

The 2010 CIP has greatly benefited from financial support from a World Bank funded Statistical Capacity (STATCAP) project. Preparation for CIP started with harmonization of data collection instruments by both MOI and KNBS in 2007. Thereafter, the harmonized instruments were piloted in May-June 2010. With technical assistance offered to MOI from the Japan International Cooperation Agency (JICA), the pilot survey results were used to improve on the final data instruments used in 2010 CIP. Collection of data was done in

1

¹ This classification is informed by the international standards of industrial classifications of all economic activities (ISIC) Revision 4.

four months spanning over November 2010 to February 2011, with the reference period being 2009 calendar year.

1.3 Legal Authority and Confidentiality

The CIP was conducted under the Authority of the Statistics Act, 2006. The Act empowers the Director General of KNBS to conduct Sample Surveys and Censuses. As such, completion of CIP questionnaires by industrial establishments was a compulsory statutory requirement. However, in accordance with the Statistics Act, raw data provided by establishments is not shared with third parties and is strictly confidential.

1.4 Objectives and Purpose

The main objectives of the Census of Industrial Production 2010 were to:

- Gather statistics that portray diversification of industrial activities;
- Provide baseline data on Industrial Structure;
- Improve quality of Industrial data through broadening of the statistical database to cater for changes;
- Provide a basis of comparison with other countries;
- Provide basic information for policy formulation;
- Establish an industrial database and to continuously update the same to monitor and reflect changes in the structure of industry;
- Provide reliable primary data for the compilation of the input-output tables and national accounts statistics;
- Provide key macroeconomic indicators like GDP, output, and capacity utilization among others;
- Provide reliable information concerning the population of establishments and enterprises based on which sampling methods, cut-off instructions and benchmark parameters are determined for various related sample surveys;
- Provide weights for construction of reliable indices such as Production Indices and Producer Price Indices and
- Compile an up-to-date sampling frame for the annual and other related industrial statistical surveys.

1.5 Reference Period

Although the Census related in principle to the calendar year 2009, special cases called for respondents to provide returns referring to their recently concluded accounting year. As much as possible, respondents were encouraged to conform to the calendar year. This notwithstanding, returns covering proximate fiscal years were accepted for reporting purposes and data for these years was incorporated in the calendar-year aggregate without adjustment. Returns which covered a period of less than 12 months were accepted in cases where businesses started or ceased trading during the year.

In conformity to other related employment surveys, all employment details in the 2010 CIP related to the week ending 30th June 2009. Industrial concerns which had no persons

engaged in the week ending 30th June 2009 could only be classified as having zero employment (e.g. those establishments that ceased operations earlier in the year or started production later in the year).

Chapter 2

Methodology

2.1 Data Sources

The units of enquiry were the establishments classified to their respective specific industry as recommended in the *ISIC*, *Revision 4*. Respondent enterprises were the single-unit enterprises or parts of multi-unit enterprises operating within the territorial boundaries of Kenya.

Establishments were ideally defined as the economic units that engage, under a single ownership or control, in one, or predominantly one, kind of activity at a single physical location. However, a number of large firms could not furnish separate data on an establishment basis, as their accounts were prepared at the enterprise (firm) level. Such multi-establishments units were classified in the industrial group of their main activity as determined by the products which accounted for the largest share of their turnover.

However due to under reporting and for provision of linkages to the available data, CIP findings were augmented with other data sources including, the Monthly Survey of Industrial Production (MSIP), Annual Enumeration of Employed Persons, Quarterly Business Expectation Enquiries (BEE) and other administrative records.

2.2 Population and sampling frame

The 2010 CIP population of target respondents was made up of all establishments in Kenya that fall under ISIC Rev 4 sections B, C, D and E. These are namely; B (Mining and quarrying), C (Manufacturing), D (Electricity, gas, steam and air conditioning supply) and E (Water supply; sewerage, waste management and remediation activities).

A Central Business Register (CBR) of establishments is kept by KNBS and is maintained and constantly updated using data /information from administrative and public utility records, newspaper announcements, business journals and field personnel contacts. This CBR provided the final list that was used in the 2010 CIP. However, due to some responses being received from enterprises as opposed to establishments, there could be minor differences in the total number of establishments in the CIP compared to CBR.

2.3 Survey Organization and Fieldwork

The 2010 CIP was ideally supposed to be conducted by post. However, experiences from most surveys on establishments show better response rates when they are visited by researchers. A researcher-administered questionnaire was therefore used to gather the data. Operational units from both MOI and KNBS provided all the technical and logistical expertise in questionnaire design as well as in the collection, editing, coding, tabulation, evaluation, analysis of data, and report writing. Field data collection was organized in such a way that three enumerators reported to one supervisor and in turn three supervisors reported to one coordinator.

2.4 Variables and Definitions

The Census covers data on variables that characterize industrial production. These include number of establishments, general particulars, economic activities and ownership, employment and hours worked, production and installed capacity, capacity underutilization, inventories, expenditure on goods and services, cost of purchase of goods for resale, total expenditure, sales and other revenues, plant and technology in use, IT infrastructure and related services, research and development and fixed assets. The definitions used in 2010 CIP borrow heavily from those of the United Nations System of National Accounts, 1993 (SNA93) and the International Recommendations of Industrial Statistics (IRIS) 2008 (Table 2.1).

Table 2.1 Definition of Variables

Statistical Concept	Definition
(a) An establishment	A production unit engaged in one kind, or predominantly one kind of activity at a fixed physical location.
(b) Persons engaged in an establishment	Total number of persons who work in or for the establishment. It included employers, own account workers, unpaid family workers and employees.
(c) An employee	A person who works in a paid employment job and receives remuneration as wages, salary, commissions, tips, piece rates, bonuses or payments in kind such as food and housing.
(d) An unpaid family worker	A person forming part of the workforce of any of the proprietors or related to them, who is actively engaged in the business, without any remuneration.
(e) Part-time workers	Persons who worked less than half of the usual working hours.
(f) Wages and Salaries	Gross amount paid to employees before deduction of income tax, employees' contributions to social security, etc. It includes the earnings of outside piece-workers.
(g) Basic Price	Amount receivable by the producer exclusive of taxes on products (e.g. excise duty and Value Added Tax) and inclusive of subsidies on products. The equivalent of imported products is the C.I.F value at the border of the importing country.
(h) Purchasers' Price	Amount payable by the purchaser exclusive of deductible taxes on products (e.g. deductible VAT).
(i) Turnover	Amount (excluding VAT) invoiced to customers after deductions for trade and quantity discounts and allowances for returns but not cash discounts.
(j) Gross output	Value on the market of goods and services produced, including work in progress and products for own use. Gross Output is valued at basic prices.
(k) Intermediate consumption of industries	Covers non-durable goods and services used up in production, including repairs and maintenance of the capital stock Intermediate consumption is valued at purchasers' prices
(1) Value added at basic prices	Equal to the gross output at basic prices less the value of intermediate consumption at purchasers' prices.
(m) Gross Value Added	Production value (i.e. total turnover adjusted for changes in stocks and own-account capital assets) less intermediate consumption (i.e. total purchases adjusted for changes in stocks of materials and fuels).
(n) Payments in kind	Goods and services provided to employees free of charge or at markedly reduced costs, which are clearly of direct benefit to the employees as consumers. Examples are food, drinks, clothing, accommodation or other commodities.

2.5 Response Rate

A total of 1,814 firms/establishments responded to the industrial activities enquiry. Data from 438 additional establishments were imputed based on other regular surveys such as MSIP, the quarterly BEE and other administrative data records for the year 2009. Therefore, the total number of industrial establishments on whose data this report is based is 2,252. The establishments that were not covered in the census included those that could not be located or traced, and those whose administrative records were not accessed. Delays in

receipt of returns from some establishments resulted in follow- ups, even after conclusion of data collection. Table 2.2 gives a breakdown of number of establishments/firms covered by industry.

Table 2.2 Number of Establishments/Firms covered by Industry

Activity	Total Number of Establishments that Responded	Total Number of Establishments Imputed	Total Number of Establishments/ firms covered in the CIP
Mining and Quarrying	48	10	58
Manufacturing	1,679	417	2,096
Electricity, Gas, Steam and Air condationing supply	12	5	17
Water supply, Sewerage	75	6	81
Total	1,814	438	2,252

Table 2.3 shows the number of establishments surveyed across the industrial activities. From the data, 94.8 per cent of the responses were at establishment level. The rest were at enterprise level, with one response being received for 26 establishments. The overall response rate based on an initial target of 3,000 establishments was about 85 per cent. Coverage in the mining and quarrying sector was rather low as most of these activities are carried out by informal units which were excluded in the 2010 CIP.

Table 2.3 Number of Establishments Covered

Number of Mining and quarrying	uarrying	Manufacturing	ring	Electricity, Gas, Steam and Air Conditioning supply	, Steam ioning	Water supply and sewerage	y and e	Total		
Number of		Number of		Number of		Number of		Number of		Total number of
establishments	Percent	establishments	Percent	establishments	Percent	establishments	Percent	establishments	Percent	establishments
52	89.7	1,988	94.8	13	76.5	73	90.1	2,126	94.4	2,126
2	3.4	52	2.5	2	11.8	Ţ	1.2	57	2.5	114
0	ł	26	1.2	0	ł	2	2.5	28	1.2	84
3	5.2	19	6.0	Π	5.9	3	3.7	26	1.2	104
0	ł	3	0.1	Π	5.9	0	ł	4	0.2	20
1	1.7	3	0.1	0	ł	Ţ	1.2	S	0.2	30
0	ł	ì	ł	0	ì	1	1.2	1	ł	8
0	ł	2	0.1	0	ł	0	ł	2	0.1	18
0	ì	1	ł	0	ì	0	ì	I	ł	11
0	ł	1	ł	0	ì	0	ł	1	ł	12
0	ł	1	ł	0	ł	0	*	1	ł	26
58	100.0	2,096	100.0	17	100.0	81	100.0	2,252	100.0	2,553

2.6 Treatment of non-respondents

The census data in this report includes imputed estimates for non-respondents. Non-respondents are fully estimated even when only few of the most important variables are known. The variables in use which were known include employment, turnover and output. It is notable that some of the information for non-respondents was available from different alternative sources. Key sources include data from the MSIP which captures two variables on quantities and production values, Labour Enumeration (LE) survey which is an annual survey capturing employment numbers and earnings, and other administrative data sources.

Overall, full data for establishments was derived using ratio extension. For partial responses, some imputation procedures were done through use of median at different levels. This involved the application of ratios between known variables to cases where only one sub-component is known. These ratios were calculated at 4 digit ISIC level.

Further, to facilitate comprehensiveness of the data, the census results were also supplemented using data from the establishments that responded during the piloting phase but failed to report in the main exercise. In the analysis, these were treated as actual responses as the reporting complied to the reporting period, 2009. Data on exports was compared with trade data for the same period to confirm variances. After estimation and imputation procedures, results were then aggregated at the 2 digit (division) level.

2.7 Challenges

In the course of carrying out the 2010 CIP, the research team encountered a number of challenges. First, there is low level of record keeping, particularly among small establishments which do not keep proper books of accounts. Secondly, securing appointments took long and a number of potential respondents were hesitant to be interviewed as they complained that the instruments were too long and hence time consuming. Similarly, timing of the data collection phase was not appropriate as most of the companies were temporarily closing business in readiness for the December holidays. Thirdly, many returns obtained from respondent enterprises had accounting approaches that were not sufficient for compilation of industrial statistics according to the international recommendations. The report hence gives approximations of the major indicators of industrial statistics based on broad estimates derived from the returns. As much as possible, the statistics presented are an indication of the level and structure of the industrial sector. The above limitations, however, did not give rise to serious undesired effects on the overall quality and reliability of the major indicators at broad ISIC levels.

Chapter 3

Ownership Structure, Employment and Earnings

3.1 Introduction

Kenya has a large industrial sector serving both local and foreign markets. This sector is central to economic development and improved prospects for human well-being. The benefits of industrial production can be seen in all aspects of life and particularly in provision of employment opportunities. This chapter discusses various characteristics of establishments in terms of ownership, capitalization, employment and compensation in the industrial sector.

3.2 Type of Ownership

One form of industrial classification is distinction between public and private ownership, and also the various forms of legal ownership. The distinction is based on whether control of the establishment rests with public authorities or private parties and the legal element thereof. Details on the types of ownership are as reflected in Table 3.1 below.

Table 3.1 Type of ownership

			Туре	of Own	ership				
Activity	Sole proprietorship	Partnership	Private limited company	public limited company	cooperative	parastatal	Local authorities	Other type	Total
Mining and quarrying	2	5	51	~	~	~	~	~	58
Manufacturing	140	79	1,417	78	343	26	1	12	2,096
Electricity, Gas, Steam and Air conditioning Supply	~	~	9	3	~	5	~	~	17
Water supply and sewerage	2	3	35	29	2	6	2	2	81
Total	144	87	1,512	110	345	37	3	14	2,252

Majority of the establishments across all industries were private companies. Within this category, manufacturing sector accounted for 93.7 per cent of the total. Nearly all establishments owned by the cooperatives were engaged in manufacturing under the semi-processing of coffee.

About 7 per cent of surveyed firms were public enterprises with majority of these establishments existing as public limited companies. Though private establishments may choose to register as sole proprietorship, partnership or private limited companies, 67 per cent of all establishments were reported as private limited companies.

3.3 Employment and Citizenship

Results from the census revealed that there were some 324,841 persons engaged in the

industrial sector. The number of persons engaged included those who worked in or for the surveyed establishment during the reference period (30th June 2009), either as working proprietors, active business partners and unpaid family workers or paid employees.

As indicated in Table 3.3, the majority of persons engaged in industry were Kenyan citizens accounting for 99.5 per cent. The manufacturing sector accounted for about 94 per cent of total employment within the industrial sector. A focus on the manufacturing industry shows that manufacture of food products subsector accounted for 39.4 per cent of manufacturing employment followed by manufacture of textiles which accounted for about 10.5 per cent. Manufacture of basic metals accounted for only 3.1 per cent. Manufacture of food products subsector accounted for 16.8 per cent of all noncitizens, followed by manufacture of chemicals and manufacture of fabricated metal products at 9.8 per cent and 7.4 per cent, respectively. Employment size for the Manufacture of computer, electronic and optical products subsector accounted for less than 1 per cent of the employees in the manufacturing sector.

Table 3.2 Employment Levels by Industry and Citizenship, June 2009

		Non	Total
Activity	Citizens	Citizens	Employment
Mining and Quarrying	4,135	45	4,180
Mining of metal ores	60	~	60
Other mining and quarrying	4,071	45	4,116
Mining support service activities	4	~	4
Manufacturing	303,640	1,438	305,078
Manufacture of food products	119,805	250	120,055
Manufacture of beverages	7,701	32	7,733
Manufacture of tobacco products	1,024	26	1,050
Manufacture of textiles	31,823	98	31,921
Manufacture of wearing apparel	23,332	102	23,434
Manufacture of leather and related products	6,335	29	6,364
Manufacture of wood and of products of wood and cork,			
except furniture; manufacture of articles of straw and plaiting	11,320	64	11,384
Manufacture of paper and paper products	7,825	53	7,878
Printing and reproduction of recorded media	9,202	51	9,253
Manufacture of coke and refined petroleum products	426	5	431
Manufacture of chemicals and chemical products	16,795	146	16,941
Manufacture of basic pharmaceutical products and			
pharmaceutical preparations	3,496	39	3,535
Manufacture of rubber and plastics products	16,136	91	16,227
Manufacture of other nonmetallic mineral products	7,103	54	7,157
Manufacture of basic metals	9,440	95	9,535
Manufacture of fabricated metal products, except machinery	ŕ		
and equipment	10,231	110	10,341
Manufacture of computer, electronic and optical products	36	~	36
Manufacture of electrical equipment	2,027	9	2,036
Manufacture of machinery and equipment n.e.c	1,793	6	1,799
Manufacture of motor vehicles, trailers and semitrailers	3,372	60	3,432
Manufacture of other transport equipment	291	3	294
Manufacture of furniture	4,686	18	4,704
Other manufacturing	6,849	31	6,880
Repair and installation of machinery and equipment	2,592	66	2,658
Electricity	_,= -,= -		_,
Electricity, gas, steam and air conditioning supply	8,152	5	8,157
Water and Sewerage	7,426	~	7,426
Water collection, treatment and supply	7,003	~	7,003
Sewerage	70	~	70
Waste collection, treatment and disposal activities; materials recovery	353	_	353
13.4.4.7/1.1.V	555	~	555

3.4 Employment Status

Workers in an establishment can be divided into permanent, short-term contract, self-employed and casual employment status. Permanent workers are those with stable contracts for whom the employing organization is responsible for payment of relevant taxes and social security contributions and/or where the contractual relationship is subject to prevailing labour regulations. For self-employed persons, regular workers are those who work in their own enterprises or firms on a continuous basis. Casual workers are ondemand employees who do not have stable or regular contracts of work and are 'employed' intermittently. They have no formal employment contract with the employer and their services may be done away with without notice. Casual employees are generally engaged for manual work.

The distribution of persons engaged by employment status is illustrated in Table 3.3. Permanent employees accounted for 56.7 per cent while casuals constituted 25.3 per cent of all employees in the industry. The proportion of regulars to total permanent and casuals was 69.1 per cent. Casuals in the manufacturing sector accounted for 95.7 per cent of all the casuals. The manufacture of food products subsector employed majority of all engaged persons for all categories.

Table 3.3: Distribution of Employees by Industry and Type of Worker, June 2009

Activity	Regular	Casuals	Contract	Unpaid	Proprietors	Total Employment
Mining and Quarrying	2,206	1,150	754	3	67	4,180
Mining of metal ores	60	-,	~	~	~	60
Other mining and quarrying	2,142	1,150	754	3	67	4,116
Mining support service activities	4	~	~	~	~	4
Manufacturing	170,193	78,868	52,223	487	3,307	305,078
Manufacture of food products	59,241	38,929	20,429	148	1,308	120,055
Manufacture of beverages	4,498	2,287	869	1	78	7,733
Manufacture of tobacco products	891	~	159	~	~	1,050
Manufacture of textiles	19,796	7,766	4,062	19	278	31,921
Manufacture of wearing apparel	17,411	2,131	3,810	~	82	23,434
Manufacture of leather and related products	2,908	2,096	1,318	2	40	6,364
Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw						
and plaiting	9,001	1,621	638	10	114	11,384
Manufacture of paper and paper products	4,161	1,746	1,899	~	72	7,878
Printing and reproduction of recorded media	6,222	1,959	805	23	244	9,253
Manufacture of coke and refined petroleum products	290	38	93	~	10	431
Manufacture of chemicals and chemical products Manufacture of basic pharmaceutical products and	10,600	1,874	3,989	244	234	16,941
pharmaceutical preparations	2,031	698	779	~	27	3,535
Manufacture of rubber and plastics products	7,634	3,811	4,591	4	187	16,227
Manufacture of other nonmetallic mineral products	3,465	1,956	1,650	6	80	7,157
Manufacture of basic metals	5,281	3,624	588	~	42	9,535
Manufacture of fabricated metal products, except machinery and equipment	E 214	4.057	220	C	144	10,341
Manufacture of computer, electronic and optical	5,314	4,057	820	6	144	10,541
products	~	~	36	~	~	36
Manufacture of electrical equipment	1,533	142	340	~	21	2,036
Manufacture of machinery and equipment n.e.c.	510	683	572	~	34	1,799
Manufacture of motor vehicles, trailers and						
semitrailers	2,071	921	358	2	80	3,432
Manufacture of other transport equipment	161	63	55	6	9	294
Manufacture of furniture	2,708	1,169	719	8	100	4,704
Other manufacturing	2,302	1,000	3,521	4	53	6,880
Repair and installation of machinery and equipment	2,164	297	123	4	70	2,658
Electricity, gas, steam	6,417	1,455	283	~	2	8,157
Electricity, gas, steam and air conditioning supply	6,417	1,455	283	~	2	8,157
Water and sewerage	5,394	900	1,113	1	18	7,426
Water collection, treatment and supply	5,060	862	1,070	~	11	7,003
Sewerage Waste collection, treatment and disposal activities;	63	7	~	~	~	70
materials recovery	271	31	43	1	7	353
Total	184,210	82,373	54,373	491	3,394	324,841

As indicated in Table 3.4, 77.2 per cent of employees in industry were males with majority being regulars (53 per cent). Females accounted for 24.8 per cent of all employees in the industry. Under manufacturing sector, regular females in the manufacture of wearing apparel activity accounted for over 50 per cent of the employment within that activity.

Table 3.4: Distribution of Regular and Casual Workers by Industry and Gender, June 2009

					Total
	Regular	Regular	Casual	Casual	Regular &
Activity	males	Females	Males	Females	Casual
Mining and Quarrying	2,011	195	1,136	14	3,356
Mining of metal ores	60	~	~	~	60
Other mining and quarrying	1,949	193	1,136	14	3,292
Mining support service activities	2	2	~	~	4
Manufacturing	130,307	39,886	61,393	17,475	249,061
Manufacture of food products	45,512	13,729	28,286	10,643	98,170
Manufacture of beverages	3,559	939	1,346	941	6,785
Manufacture of tobacco products	736	155	~	~	891
Manufacture of textiles	13,215	6,581	5,145	2,621	27,562
Manufacture of wearing apparel	7,194	10,217	1,524	607	19,542
Manufacture of leather and related products	2,575	333	1,344	752	5,004
Manufacture of wood and of products of wood and					
cork, except furniture; manufacture of articles of straw and plaiting	7,946	1,055	1,499	122	10,622
Manufacture of paper and paper products	3,650	511	1,610	136	5,907
Printing and reproduction of recorded media	4,792	1,430	1,440	519	8,181
Manufacture of coke and refined petroleum	•	,	•		
products	241	49	24	14	328
Manufacture of chemicals and chemical products	9,427	1,173	1,588	286	12,474
Manufacture of basic pharmaceutical products and pharmaceutical preparations	1,523	508	513	185	2,729
Manufacture of rubber and plastics products	7.057	577	2 619	193	11 445
Manufacture of rubber and plastics products	7,057	311	3,618	193	11,445
Manufacture of other nonmetallic mineral products	3,238	227	1,773	183	5,421
Manufacture of basic metals	5,057	224	3,604	20	8,905
Manufacture of fabricated metal products, except machinery and equipment	5,043	271	3,958	99	9,371
Manufacture of computer, electronic and optical products	~	~	~	~	~
Manufacture of electrical equipment	1,384	149	133	9	1,675
Manufacture of machinery and equipment n.e.c.	476	34	649	34	1,193
Manufacture of motor vehicles, trailers and					ŕ
semitrailers	1,925	146	909	12	2,992
Manufacture of other transport equipment	134	27	56	7	224
Manufacture of furniture	2,372	336	1,128	41	3,877
Other manufacturing	1,388	914	953	47	3,302
<u> </u>	1,863	301	293	4	2,461
Repair and installation of machinery and equipment Electricity	5,261	1,156	1,147	308	7,872
	5,261	1,156	1,147	308	7,872
Electricity, gas, steam and air conditioning supply	3,401	1,130	1,147	308	1,012
Water and sewerage	3,955	1,439	748	152	6,294
Water collection, treatment and supply	3,731	1,329	713	149	5,922
Sewerage	51	12	7	~	70
Waste collection, treatment and disposal activities; materials recovery	173	98	28	3	302
Total	141,534	42,676	64,424	17,949	266,583

3.5 Employment by Industry Subsectors and Towns

This section reviews the distribution of workers by main industrial towns. Nairobi still remains the main industrial town accounting for 48.8 per cent of all employees. This is followed by Mombasa (6.1%), Nakuru (6.0 %), Thika (4.7 %), Machakos (3.7 %) and Kiambu (3.5 %), with the rest of the firms scattered in other small towns. These details are provided in Table 3.5. The manufacture of food products was the key sector that provided employment in the five leading towns with the exception of Mombasa, Nakuru and Machakos. The key activity for Mombasa and Nakuru was manufacture of textiles, while manufacture of wearing apparel dominated in Machakos, mainly due to the contribution of the EPZ companies. Other industrial activities in Machakos are manufacture of non metallic mineral products. Manufacture of basic metals was mainly concentrated in both Nairobi and Mombasa. Manufacture of chemicals and chemical products and that of rubber and plastics products were the other two key activities in Nairobi.

Table 3.5 Distribution of Workers by Industry and Industrial Towns, June 2009

	Industrial towns									
Activity	Nairobi	Kiambu	ľhika (Kiambu)	Kilifi	Mombasa	Machakos	Bomet	Nakuru	Other towns	Fotal employment
Mining and Quarrying	618	-	263	380	76	248		179	2,416	4,180
Mining of metal ores						20			40	60
Other mining and quarrying	614		263	380	76	228		179	2,376	4,116
Mining support service activities	4									4
Manufacturing	148,105	11,023	14,900	6,628	19,463	11,639	9,104	18,048	66,168	305,078
Manufacture of food products	38,435	7,363	10,270	1,264	2,190	1,169	8,870	2,905	47,589	120,055
Manufacture of beverages	4,498	32	27	324	278			276	2,298	7,733
Manufacture of tobacco products	1,050									1,050
Manufacture of textiles	7,086		2,139	1,841	5,748	1,627		10,277	3,203	31,921
Manufacture of wearing apparel	11,963	166	465	2,546	1,935	2,336			4,023	23,434
Manufacture of leather and related products Manufacture of wood and of products of wood and cork, except furniture;	2,057	1,431	51		1,710	933		90	92	6,364
manufacture of articles of straw and plaiting	1,430	•			99	1,996		3,496	4,363	11,384
Manufacture of paper and paper products Printing and reproduction of recorded	5,633	126		٠	100	397	•		1,622	7,878
media Manufacture of coke and refined	8,450	84	3		345			39	332	9,253
petroleum products Manufacture of chemicals and	189	1	•	•	241		•		•	431
chemical products Manufacture of basic pharmaceutical products and pharmaceutical	15,677		167	•	300	17	•	614	166	16,941
preparations Manufacture of rubber and plastics	2,891	455	·	٠	•	189	·	•	٠	3,535
products Manufacture of other nonmetallic	13,271	856	29		721	478			872	16,227
mineral products	5,148			106	191	1,314		8	390	7,157
Manufacture of basic metals Manufacture of fabricated metal products, except machinery and	5,226	64	602		3,065	403			175	9,535
equipment	7,835	324	263	486	672	163	234	71	293	10,341
Manufacture of computer, electronic and optical products	36									36
Manufacture of electrical equipment Manufacture of machinery and	1,986				50					2,036
equipment n.e.c. Manufacture of motor vehicles, trailers	1,606		27	•			•	166	•	1,799
and semitrailers Manufacture of other transport	2,460	•	253	٠	369	283	٠	50	17	3,432
equipment	44			43	207		ē			294
Manufacture of furniture	3,676		555	•	178	83	ē	1	211	4,704
Other manufacturing	5,114	121		18	943	251	•	42	391	6,880
Repair and installation of machinery	6.64									0.05-
and equipment	2,344		49		121		ē	13	131	2,658
Electricity	7,443	•	•	275	٠	40	•	226	173	8,157
Electricity, gas, steam and air conditioning supply	7,443			275		40		226	173	8,157
Water and sewerage	2,539	306	239	293	456	114		1,055	2,424	7,426
Water collection, treatment and supply	2,186	306	239	293	456	56	•	1,055	2,412	7,003
Sewerage						58 .			12	70
Waste collection, treatment and disposal activities; materials recovery	353 .									353
Total	158,705	11,329	15,402	7,576	19,995	12,041	9,104	19,508	71,181	324,841
IUIAI	100,100	11,040	10,404	1,510	10,000	14,041	0,104	10,000	11,101	044,041

3.6 Labour Earnings by Industry Subsector

This section focuses on the labour cost on employers. This includes remuneration in cash and in kind paid to employees, as a rule at regular intervals, for time worked or work done together with remuneration for time not worked, such as for annual vacation, other paid leave or holidays. The cost also includes (social insurance contributions) compulsory employers' contributions to NSSF and other pension schemes, NHIF, accident compensation, and other schemes for the benefit of employees. The survey results showed that the total labour costs for June 2009 were about KSh 11 billion. Notable also from Table 3.6 is that the total payments to casual labourers were about KSh1.3 billion with those of manufacture of food products accounting for 28.6 per cent.

Table 3.6 Total Employment and Payments to Workers by Industry, June 2009

		Payments (Ksh 000's)						
Activity	Fotal Employment	Regular Pay	Casual Pay	Contract	Inkind Pay	nsurance	Fotal Payments	
Mining and Quarrying	4,180	107,717	27,782	22,128	2,701	4,086	164,415	
Mining of metal ores	60	189	0	0	0	0	189	
Other mining and quarrying	4,116	107,368	27,782	22,128	2,701	4,086	164,065	
Mining support service activities	4	160	0	0	1	0	161	
Manufacturing	305,078	6,974,665	1,267,883	834,568	488,263	312,196	9,877,574	
Manufacture of food products	120,055	2,051,324	630,605	237,358	91,360	124,546	3,135,193	
Manufacture of beverages	7,733	339,669	35,667	10,039	24,989	17,257	427,621	
Manufacture of tobacco products	1,050	14,707	0	456	0	23,933	39,097	
Manufacture of textiles	31,921	267,772	34,974	27,823	7,202	8,573	346,344	
Manufacture of wearing apparel	23,434	291,575	16,148	85,508	61,159	12,224	466,614	
Manufacture of leather and related products Manufacture of wood and of products of	6,364	98,440	23,315	25,663	874	1,526	149,819	
wood and cork, except furniture; manufacture of articles of straw and plaiting	11,384	126,231	24,506	2,796	1,748	5,233	160,514	
Manufacture of paper and paper products	7,878	325,279	20,148	37,182	61,164	12,906	456,679	
Printing and reproduction of recorded media	9,253	409,330	26,145	16,566	19,717	9,433	481,191	
Manufacture of coke and refined petroleum products	431	56,843	1,154	6,223	5,267	1,523	71,010	
Manufacture of chemicals and chemical products Manufacture of basic pharmaceutical	16,941	763,496	30,644	76,131	74,697	37,322	982,290	
products and pharmaceutical preparations	3,535	199,330	16,431	27,814	2,758	3,190	249,522	
Manufacture of rubber and plastics products	16,227	259,842	82,431	87,699	2,300	8,235	440,507	
Manufacture of other nonmetallic mineral products	7,157	281,647	58,739	17,502	97,499	2,427	457,815	
Manufacture of basic metals Manufacture of fabricated metal products, except machinery and equipment	9,535	209,312	40,066	27,930	2,563	4,628	284,498	
Manufacture of computer, electronic and	10,341	581,747	142,273	10,469	5,189	11,632	751,309	
optical products	36	0	0	0	0	40	40	
Manufacture of electrical equipment	2,036	55,821	823	6,641	0	1,172	64,456	
Manufacture of machinery and equipment n.e.c.	1,799	24,070	10,326	16,811	167	1,440	52,814	
Manufacture of motor vehicles, trailers and semitrailers	3,432	121,377	35,001	59,866	15,476	5,057	236,776	
Manufacture of other transport equipment	294	6,042	1,417	0	700	180	8,339	
Manufacture of furniture	4,704	264,805	11,952	32,416	1,148	9,067	319,388	
Other manufacturing	6,880	56,052	14,803	3,249	81	3,087	77,273	
Repair and installation of machinery and equipment	2,658	169,953	10,314	18,424	12,209	7,566	218,466	
Electricity	8,157	614,709	23,791	11,258	60	750	650,568	
Electricity, gas, steam and air conditioning supply	8,157	614,709	23,791	11,258	60	750	650,568	
Water and sewerage	7,426	218,590	12,090	39,592	9,073	6,544	285,888	
Water collection, treatment and supply	7,003	213,766	11,640	39,509	9,059	6,331	280,303	
Sewerage Waste collection, treatment and disposal	70	1,280	0	0	0	109	1,389	
activities; materials recovery Total	353 324,841	3,544 7,915,681	450 1,331,545	90 7,546	14 500,097	104 323,576	4,196 10,978,44 5	
10121	344,841	1,00,011	1,331,545	JU1,546	300,037	343,316	10,318,445	

3.6.1 Average Earnings by Industry

Average earnings for the regular and casual workers are presented in Table 3.7. Overall, average earnings amounted to KSh 44,760.3 per month in the industrial sector. Within manufacturing, the highest monthly average earnings for permanent workers were recorded in the manufacture of coke and refined petroleum products at KSh 196,009 per month. This was followed by the permanent employees in the manufacture of fabricated metal products, except machinery and equipment at 109,474 per month. Permanent employees in the manufacture of textiles were the least paid at KSh 13,526 per month. Casuals in the manufacture of motor vehicles, trailers and semitrailers were the highest paid at KSh 38,003. The lowest paid casuals were in the manufacture of textiles at KSh 4,504 per month.

Table 3.7 Average Monthly Earnings to Workers by Industry, June 2009

Activity	Regular	Casual	Total
Mining and Quarrying			
Mining of metal ores	3,150.0	~	3,150.0
Other mining and quarrying	50,125.3	24,158.1	41,054.1
Mining support service activities	40,000.0	~	40,000.0
Manufacturing			
Manufacture of food products	34,626.8	16,198.9	27,319.2
Manufacture of beverages	75,515.6	15,595.6	55,318.5
Manufacture of tobacco products	16,506.3	~	16,506.3
Manufacture of textiles	13,526.6	4,503.5	10,984.2
Manufacture of wearing apparel	16,746.6	7,577.5	15,746.7
Manufacture of leather and related products	33,851.6	11,123.7	24,331.7
Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting	14,024.1	15,117.8	14,191.0
Manufacture of paper and paper products	78,173.2	11,539.5	58,477.5
Printing and reproduction of recorded media	65,787.6	13,346.1	53,230.1
Manufacture of coke and refined petroleum products	196,009.1	30,371.6	176,819.4
Manufacture of chemicals and chemical products	72,027.9	16,352.2	63,663.6
Manufacture of basic pharmaceutical products and	ŕ	,	,
pharmaceutical preparations	98,143.7	23,540.1	79,062.2
Manufacture of rubber and plastics products	34,037.5	21,629.8	29,905.9
Manufacture of other nonmetallic mineral products	81,283.5	30,030.3	62,790.3
Manufacture of basic metals	39,634.9	11,055.8	28,004.3
Manufacture of fabricated metal products, except machinery and equipment	109,474.4	35,068.4	77,261.7
Manufacture of computer, electronic and optical products	~	~	~
Manufacture of electrical equipment	36,412.9	5,798.0	33,817.5
Manufacture of machinery and equipment nec	47,196.2	15,118.2	28,831.3
Manufacture of motor vehicles, trailers and semitrailers	58,607.9	38,002.9	52,265.3
Manufacture of other transport equipment	37,528.0	22,486.8	33,297.6
Manufacture of furniture	97,786.1	10,224.4	71,384.4
Other manufacturing	24,349.5	14,803.4	21,458.4
Repair and installation of machinery and equipment	78,536.4	34,726.7	73,249.3
Electricity			
Electricity, gas, steam and air conditioning supply	95,793.8	16,351.4	81,110.3
Water and Sewerage			
Water collection, treatment and supply	42,246.2	13,503.0	38,062.3
Sewerage	20,320.3	~	18,288.3
Waste collection, treatment and disposal activities; materials recovery	13,078.8	14,516.1	13,226.3
Total	54,150.0	18,182.3	44,760.3

Chapter 4

Industrial Production

4.1 Introduction

One of the objectives of CIP was to establish the contribution, to overall industrial production, of the four sectors covered in the CIP, namely, Manufacturing; Mining and Quarrying; Electricity, Gas, Steam and Air conditioning supply; and Water Supply, Sewerage, Waste Management and Remediation Services. This report uses the production value to assess the contribution of various sectors to the overall industry output. Other useful data analysed in the report is level of capacity utilization in various sectors of the industry.

4.2 Value of Industrial Production

Based on the census enumeration, manufacturing activities recorded the largest share of industrial production, accounting for 90.3 per cent of total value of industrial output in 2009. This was followed by electricity, gas, steam and air conditioning supply which recorded 7.9 per cent of the total output as illustrated in Figure 4.1.

Overall, the value of total industrial production was KSh 1,009.2 billion in 2009. As shown in Table 4.1 Manufacturing was the largest industrial activity with an output of KSh 910.8 billion whereas electricity and gas supply, mining and quarrying; and water and sewerage supply produced KSh 79.7 billion, KSh 13.3 billion and KSh 5.3 billion, respectively.

Table 4.1 Production Value by Industry

Activity	Total Value of Production (KSh Billion)	Percentage Share
Mining and Quarrying	13.3	1.3
Manufacturing	910.8	90.3
Electricity, Gas, Steam and Air conditioning supply	79.7	7.9
Water supply, Sewerage	5.3	0.5
Total	1,009.2	100.0

Figure 4.1: Percentage Share of Industrial Production

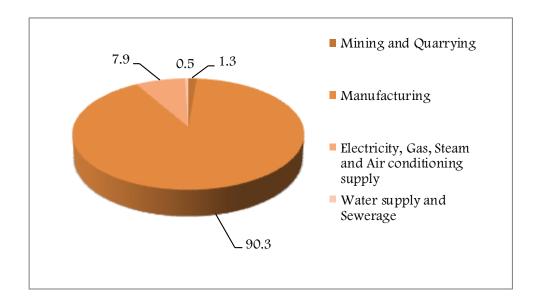


Table 4.2 gives a breakdown of the production of the subsectors. Within the manufacturing sector, the leading activity is the manufacture of food products which has a share of about 30 per cent of overall output value. Other notable activities include manufacture of coke and refined petroleum products; manufacture of beverages, manufacture of chemicals and chemical products, and printing and reproduction of recorded media. Each of these activities contributes more than 5 per cent of total production value. Electricity and water supply together with related activities have a combined contribution of almost 10 per cent. This reflects the important role of these activities in supporting other economic activities, especially manufacturing.

Table 4.2 Detailed Production Value by Industry

	Total Value of	
	Production (KSh	Percentage
Economic Activity	Billion)	Share
Mining and Quarrying		
Mining of metals ores	1.2	0.1
Other mining and quarrying	12.1	1.2
Mining support service activities	0.0	0.0
Total	13.3	1.3
Manufacturing		
Manufacture of food products	300.3	29.8
Manufacture of beverages	60.4	6.0
Manufacture of tobacco products	12.2	1.2
Manufacture of textiles	30.8	3.1
Manufacture of wearing apparel	16.0	1.6
Manufacture of leather and related products	13.5	1.3
Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting	19.7	2.0
Manufacture of paper and paper products	26.4	2.6
Printing and reproduction of recorded media	52.3	5.2
Manufacture of coke and refined petroleum products	77.3	7.7
Manufacture of chemicals and chemical products	51.6	5.1
Manufacture of pharmaceuticals, medicinal chemical and botanical products	7.7	0.8
Manufacture of rubber and plastics products	48.5	4.8
Manufacture of other non-metallic mineral products	40.2	4.0
Manufacture of basic metals	41.4	4.1
Manufacture of fabricated metal products, except machinery and equipment	43.1	4.3
Manufacture of computer, electronic and optical products	1.0	0.1
Manufacture of electrical equipment	8.7	0.9
Manufacture of machinery and equipment n.e.c.	6.2	0.6
Manufacture of motor vehicles, trailers and semi-trailers	10.2	1.0
Manufacture of other transport equipment	0.8	0.1
Manufacture of furniture	13.4	1.3
Other manufacturing	9.6	1.0
Repair and installation of machinery and equipment	12.3	1.2
Manufacture of machinery and equipment n.e.c.	7.2	0.7
Total	910.8	90.3
Electricity, Gas, Steam and Air conditioning supply		
Electricity, gas, steam and air conditioning supply	79.7	7.9
Total	79.7	7.9
Water supply, Sewerage		
Water collection, treatment and supply	4.5	0.4
Sewerage	0.0	0.0
Waste collection, treatment and disposal activities; materials	0.7	0.1
recovery	•	
Total	5.3	0.5
Grand Total	1009.2	100.0

4.3 Capacity Utilization by Establishments

Capacity utilization refers to the current level of production compared to what would have been produced if all the machinery/equipment was fully engaged in production activities per the installed capacity. Table 4.3 gives a breakdown of the levels of capacity utilization across four economic activities. The level of capacity utilization by industries has a significant bearing on the level of labour productivity, employment, compensation of employees and the overall profitability of industrial activities. Various factors play a part in determining the level of capacity utilization. These factors include the supply of skilled manpower, supply of raw materials and the mechanical condition of machinery in use.

Table 4.3 Percentage Level of Capacity Utilization by Economic Activity

						Electricity, Gas,				
Capacity	Mining	g and			Steam and Air		Water supply,			
Utilisation	Quarr	ying	Manufacturing		conditioning supply		Sewerage		Total	
(%)	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0~9	3	2.5	122	2.7	~	~	1	1.4	126	2.6
10~19	13	10.7	169	3.7	~	~	3	4.3	185	3.9
20~29	8	6.6	320	7	2	8	3	4.3	333	6.9
30-39	7	5.8	297	6.5	1	4	5	7.2	310	6.5
40~49	11	9.1	465	10.1	1	4	5	7.2	482	10
50~59	19	15.7	518	11.3	5	20	10	14.5	552	11.5
60-69	15	12.4	799	17.4	5	20	6	8.7	825	17.2
70~79	18	14.9	738	16.1	3	12	8	11.6	767	16
80~89	17	14	652	14.2	1	4	7	10.1	677	14.1
90~100	10	8.3	508	11.1	7	28	21	30.4	546	11.4

Distribution of establishments according to capacity utilization shows wide disparities. Overall, about 13 per cent of establishments covered had a capacity utilization of below 30 per cent, 11.4 per cent of establishments reported utilization levels above 90 per cent. These patterns are replicated across the sectors covered except for Electricity, Gas, Steam and Air conditioning supply; and Water Supply, Sewerage and Waste Management, each of which had about 30 per cent of establishments with capacity utilization above 90 per cent. A total of 29.9 per cent of establishments reported capacity utilization below 50 per cent. Close to half of all establishments reported average capacity utilization in the range of 60 per cent to 89 per cent.

Table 4.4 Capacity Utilization by Industry

Economic Activity		Capac	ity Utilization	(%)	
	0~19	20~39	40~59	60~79	80~100
Mining and quarrying	13.2	12.4	24.8	27.3	22.3
Manufacture of food products	8.3	18.5	22.4	26.2	24.6
Manufacture of beverages	3.4	11.8	22.5	31.5	30.9
Manufacture of tobacco products	~	~	~	100.0	~
Manufacture of textiles	9.6	5.3	18.2	44.4	22.5
Manufacture of wearing apparel	~	1.0	18.0	47.0	34.0
Manufacture of leather and related products	1.8	10.7	12.5	37.5	37.5
Manufacture of wood and products of wood and cork	4.5	17.2	15.7	32.3	30.3
Manufacture of paper and paper products	0.9	8.2	25.5	45.5	20.0
Printing and reproduction of recorded media	11.7	7.0	20.2	39.4	21.6
Manufacture of coke and refined petroleum products	8.3	27.8	13.9	47.2	2.8
Manufacture of chemicals and chemical products	2.0	17.4	34.5	31.8	14.4
Manufacture of basic pharmaceutical products and					
pharmaceutical	5.4	0.9	19.6	40.2	33.9
Manufacture of rubber and plastics products	~	2.7	18.7	48.7	29.9
Manufacture of other nonmetallic mineral products	~	14.3	19.3	22.7	43.7
Manufacture of basic metals	5.6	~	29.6	42.6	22.2
Manufacture of fabricated metal products, except machinery					
	8.2	9.1	15.0	38.2	29.5
Manufacture of computer, electronic and optical products					
	~	~	~	100.0	~
Manufacture of electrical equipment	~	22.6	~	52.8	24.5
Manufacture of machinery and equipment n.e.c.	10.2	24.5	~	49.0	16.3
Manufacture of motor vehicles, trailers and semitrailers	1.2	8.2	41.2	30.6	18.8
Manufacture of other transport equipment	50.0	50.0	~	~	~
Manufacture of furniture	7.0	8.8	15.8	37.7	30.7
Other manufacturing	~	19.0	10.3	51.7	19.0
Repair and installation of machinery and equipment	24.2	~	13.6	30.3	31.8
Electricity, gas, steam and air conditioning supply	~	12.0	24.0	32.0	32.0
Water collection, treatment and supply	6.2	9.2	21.5	20.0	43.1
Sewerage	~	50.0	~	50.0	~
Waste collection, treatment and disposal activities	~	50.0	50.0	~	~

4.4 Reasons for Capacity Underutilization

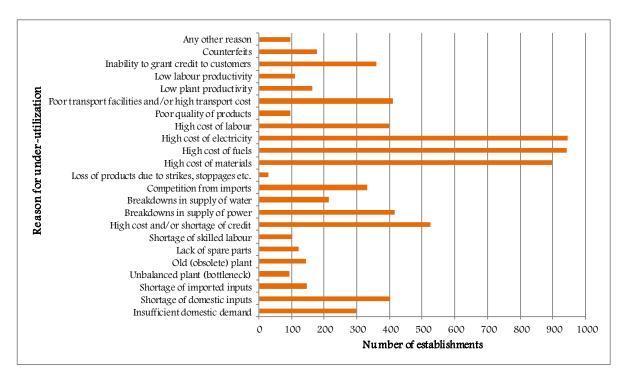
All establishments covered during the CIP reported various levels of underutilization of existing capacity of production. This means that for each of the establishments visited, if the production plant, labour force and other available resources were optimally applied, then the establishment had room for increased production beyond the quantities reported for the reference year.

The census sought to understand the operational challenges faced by industrial activities by including questions on the constraints making it difficult for establishments to realize higher levels of production. For each of the constraints mentioned, the respondent assessed the importance of the reason by indicating whether it affected the establishment highly, moderately or lowly. The responses were analysed and ranked as presented in Table 4.5 and as depicted in Figure 4.2.

Table 4.5 Reasons for Capacity Underutilization

		Ran	king	
	High	Moderate	Low	N/A
Reasons	Per cent	Per cent	Per cent	Per cent
Insufficient domestic demand	19.0	26.5	16.4	38.1
Shortage of domestic inputs	26.1	22.8	19.6	31.4
Shortage of imported inputs	10.0	15.6	17.3	57.1
Unbalanced plant (bottleneck)	6.6	14.7	18.3	60.4
Old (obsolete) plant	9.8	15.1	16.9	58.2
Lack of spare parts	8.0	15.6	27.7	48.7
Shortage of skilled labour	6.7	19.9	28.8	44.6
High cost and/or shortage of credit	33.7	22.9	14.3	29.1
Breakdowns in supply of power	26.3	27.3	20.5	25.8
Breakdowns in supply of water	14.2	15.1	23.4	47.3
Competition from imports	22.1	13.4	12.1	52.5
Loss of products due to strikes, stoppages etc.	2.0	5.0	20.4	72.6
High cost of materials	55.7	20.3	6.6	17.4
High cost of fuels	59.7	17.7	4.7	17.9
High cost of electricity	58.6	17.9	5.0	18.5
High cost of labour	25.8	35.2	15.9	23.1
Poor quality of products	6.6	17.4	22.9	53.0
Poor transport facilities and/or high transport cost	27.0	26.2	16.4	30.3
Low plant productivity	11.2	18.7	23.0	47.1
Low labour productivity	7.5	23.2	24.9	44.3
Inability to grant credit to customers	24.1	19.3	16.2	40.4
Counterfeits	12.3	10.4	10.4	66.9
Any other reason	15.5	3.0	2.4	79.1





High cost of raw materials and other inputs appears to be a major challenge to industrial production in the country. Out of all the production units that reported these as operational constraints, cost of materials, fuels and electricity were reported by more than half of the establishments as a problem that affected them highly. High cost of labour was reported by 25.8 per cent of units as a highly influencing challenge, while 27.0 per cent indicated that poor but costly transportation of materials was a major challenge. One third of affected units reported limited access and high cost of credit as a high contributor to sub-optimal production levels. Similarly, slightly over 26 per cent of affected establishments reported each of unreliable electricity supply and shortage of domestic material inputs as major constraints in their operations.

Various other aspects of production were reported by units as affecting them negatively in their production activities. These include competition from imports and counterfeit items which diminish product demand, poor water supply and insufficient domestic demand. However, a number of reported constraints affected only a small proportion of establishments, meaning that these had minimal negative effects on the overall industrial production in the country. For each of the constraints of shortage of imported inputs, unbalanced plant (bottlenecks), old or obsolete plant, competition from imports, loss of products due to strikes, poor quality of products and competition from counterfeits; more than 50 per cent reported that these constraints did not affect them at all.

Chapter 5

Inputs in Industrial Production

5.1 Introduction

Inputs in general terms are described as factors of production which are used in the production process. The inputs are usually categorized into raw materials and supplies; labour services; capital goods; and land. Land, labour and capital goods constitute primary factors which facilitate production but neither become part of the product nor become significantly transformed by the production process. On the contrary, raw materials and supplies consist of goods and/or services that may be either transformed or used up in the production processes. Such inputs, known as *intermediate inputs*, may re-emerge after having been transformed and incorporated into the output, for instance wheat flour may be transformed into bread; or may be completely consumed, as is the case for electricity and most services.

Intermediate consumption² excludes expenditures by enterprises on valuables consisting of works of art, precious metals and stones and articles of jewellery fashioned out of them. Valuables are assets acquired as stores of value: they are not used up in production and do not deteriorate physically over time. Intermediate consumption also excludes costs incurred by the gradual using up of fixed assets owned by the enterprise: the decline in their value during the accounting period is recorded as consumption of fixed capital. However, intermediate consumption does include the rentals paid on the use of fixed assets, whether equipment or buildings, that are leased from other institutional units under an operating lease, and also fees, commissions, royalties, and others, payable under licensing arrangements. Values of goods or services used as inputs into ancillary activities such as purchasing, sales, marketing, accounting, data processing, transportation, storage, maintenance and security are also included as intermediate consumption.

To analyze input composition in the production processes, the terms *intermediate* consumption and material costs, have been used interchangeably. The terms refer to direct charges actually paid or payable for goods and services consumed or put into production during the year 2009, including freight charges and other direct charges incurred by the establishment in acquiring these materials. Specifically,

The items included under intermediate consumption are:

- 1. Cost of all raw materials, semi-finished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for ordinary regular maintenance and repair during the year.
- 2. Cost of fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.
- 3. Cost of purchased electricity during the year for heat and power.

-

² Intermediate consumption refers to the *value of the goods and services* consumed as inputs by a process of production, excluding fixed assets whose consumption is recorded as consumption of fixed capital.

- 4. Cost of contract work. The term "Contract Work" refers to the fee a company pays to another company to perform a service.
- 5. Operating expenses such as the rentals paid on buildings or equipment under an operating lease, and also fees, commissions, royalties, etc., payable under licensing arrangements
- 6. The value of goods or services used as inputs into ancillary activities such as purchasing, sales, marketing, accounting, data processing, transportation, storage, maintenance, security, etc.

Expenditures excluded are:

- 1. The value of the depreciation of fixed assets.
- 2. Valuables bought by enterprises such as works of art, precious metals and stones, ornaments and jewellery.
- 3. Major renovations, reconstructions, or enlargements of existing fixed assets enhancing their efficiency or capacity, or prolonging their expected working lives.
- 4. Expenditures on mineral exploration.
- 5. Expenditures on research and development. This is treated as capital formation.
- 6. Items used by employees in their own time and at their own discretion for their own use, are regarded as remuneration in kind, not intermediate consumption.

Overall, the value of inputs into the sector's production process was estimated at KSh 701.9 billion, of which KSh 689.3 billion was intermediate consumption. Cost of raw materials constituted 81.2 per cent of the inputs into the process of production activities of sectors. Energy and water accounted for 8.1 per cent of the input costs while expenditure on other type of inputs amounted to 10.6 per cent. In 2009, inventories were estimated to have depleted by KSh 902.6 million probably due the start of an economic recovery after a slowdown in 2008. Finally, value added (contribution to GDP) of the formal industrial sector was found to be KSh 319.8 billion.

The analyses of the results are presented in four sub-sections namely: components of material cost in general; expenditure on raw materials; expenditure on "electricity, water and fuel" and; other operating costs. Production costs related to labour were discussed in chapter 3 whereas chapter 7 covers costs associated with capital goods.

5.2 Components of material cost

Total recurrent expenditure of industrial and construction activities amounted to KSh 704.8 billion out of which KSh 692.3 billion was intermediate consumption. The non-intermediate costs, reflected as "other recurrent expenses", accounted for 9.0 per cent of the total recurrent expenses. Insurance premium payments, interest payments, and environmental protection costs are some of the items excluded from intermediate costs and are presented as "other recurrent expenses". These items reflect expenses that relate to redistribution of income, therefore are not directly linked to cost of production.



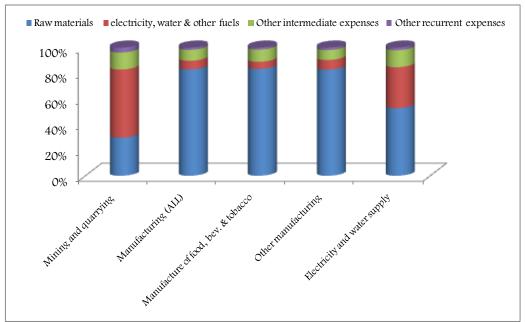


Figure 5.1 highlights the composition of expenditures by economic activity at broad levels. The intermediate costs consisted expenses on raw materials, "electricity, water and fuel", and "other intermediate expenses". Each of the three categories recorded expenditure share of 82.7 per cent, 8.3 per cent, and 9.0 per cent, respectively.

Comparison across activities indicated that production expenses in manufacturing are mostly on raw materials. When manufacturing activities are disaggregated into processing of food, beverages & tobacco and, "other manufacturing activity", the later recorded a lower expenditure share of 41.6 per cent compared to 58.4 per cent for food processing industries. Mining & Quarrying and Electricity & Water supply incurred low expenses on raw materials recording expenditure shares of 0.3 per cent and 3.5 per cent, respectively.

Electricity and Water supply activities registered the largest share of intermediate consumption on "electricity, water and fuel" which constituted 76 per cent of the purchases spent on this category. High expenditure on petroleum products by Electricity supply sub-sector accounted for the observed outcome. The electricity supply sub-sector spent 79 per cent on "electricity, water and fuel", while Water supply sub-sector recorded 24 per cent.

Table 5.1 provides expenditure structure of intermediate consumption by activity at a detailed level. Across activities, similar results were observed with most industries recording proportion of intermediate consumption (IC) to the total recurrent expenditures in excess of 80 per cent.

Composition of expenditure across activities showed a similar trend with high proportion of expenses on raw materials followed by "electricity, water and fuel" costs and other intermediate expenses. Expenditures on electricity, water and fuel were low although

exceptions were recorded in mining of non-ferrous metal ores and other mining and quarrying which were above 50 per cent.

Table 5.1 Share of Input Components in Total Intermediate Consumption by Activity

		Electricity,	Other
	Raw	water and	intermediate
Activity	material	fuel	expenses
Mining of non-ferrous metals ores	37.8	62.2	expenses
Other mining and quarrying	28.9	52.4	14.5
Mining support service activities	71.0	23.7	3.0
Manufacture of food products	84.7	5.5	8.3
Manufacture of lood products Manufacture of beverages	72.2	6.5	19.2
Manufacture of tobacco products	92.5	5.0	1.3
Manufacture of textiles	82.4	8.6	6.9
Manufacture of textiles Manufacture of wearing apparel	83.4	5.2	9.0
Manufacture of wearing apparer Manufacture of leather and related products	79.1	8.6	7.5
Manufacture of wood and products of wood and cork, except furniture;	79.5	12.7	6.4
manufacture of wood and products of wood and cork, except furniture, manufacture of articles of straw and plaiting materials	13.3	14.7	0.4
Manufacture of paper and paper products	72.6	16.6	6.9
Printing and reproduction of recorded media	80.8	4.5	10.8
Manufacture of coke and refined petroleum products	97.1	1.0	1.8
Manufacture of chemicals and chemical products	81.6	5.4	10.8
Manufacture of chemicals and chemical products Manufacture of pharmaceuticals, medicinal chemical and botanical	76.5	3.4	17.0
products	10.5	3.6	17.0
Manufacture of rubber and plastics products	82.0	8.6	7.4
Manufacture of other non-metallic mineral products	67.6	22.3	9.2
Manufacture of basic metals	88.4	5.0	5.2
Manufacture of fabricated metal products, except machinery and	83.5	4.5	9.2
equipment	00.0	4.5	3.2
Manufacture of computer, electronic and optical products	92.3	0.8	6.5
Manufacture of electrical equipment	86.0	5.4	7.5
Manufacture of machinery and equipment n.e.c.	79.0	6.3	13.8
Manufacture of motor vehicles, trailers and semi-trailers	89.1	2.0	7.6
Manufacture of other transport equipment	65.2	28.3	5.4
Manufacture of furniture	86.3	2.8	10.0
Other manufacturing	73.9	15.8	8.8
Repair and installation of machinery and equipment	61.9	15.5	16.1
Electricity, gas, steam and air conditioning supply	52.7	32.9	12.6
Water collection, treatment and supply	53.1	16.0	24.6
Sewerage	12.6	21.1	52.2
Waste collection, treatment and disposal activities; materials recovery	57.5	29.1	12.1
Remediation activities and other waste management services			
Total	81	8.5	10.6

5.3 Expenditure on raw materials

Raw materials are substances, or components that are transformed by establishments and are products of other establishments as well as establishments similar to the producing units. The materials may be purchased directly from producers, obtained through customary trade channels, or secured without option to the market by transferring the product from one establishment to another, under the same ownership. In 2009, the industrial establishments purchased raw materials worth KSh 570.1 billion. Out of this,

52.4 per cent was sourced locally while 47.6 per cent was imported. Figure 5.2 shows the composition of raw materials by activity/sub-activity and source of supply.

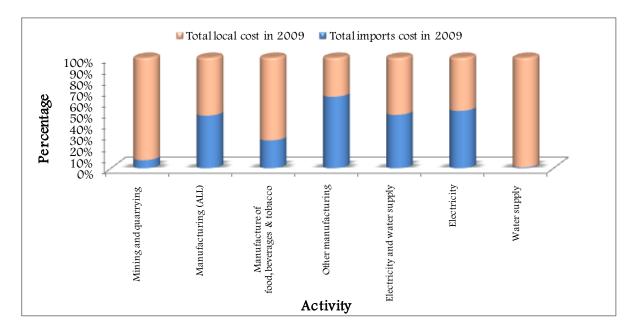


Figure 5.2: Expenditure on Raw Materials by Activity and Source of Supply

Mining and quarrying activities recorded import share of 7.4 per cent while manufacturing had a share of 25.3 per cent. The sub-activities of manufacturing; manufacture of food & beverage and 'Other manufacturing', had import shares of 47.4 per cent and 34.4 per cent, respectively. This indicates that the rest of activities have a low import dependency in terms of supply of their raw materials.

Table 5.2 presents the annual expenditure on raw materials by activity and source at detailed activity level. Manufacture of wearing apparel, manufacture of leather & related products, manufacture of pharmaceuticals, manufacture of rubber & plastic products and, manufacture of fabricated metals all recorded import shares of at least three quarters of the total supply. Manufacture of coke & refined petroleum products have a 99.0 per cent import dependency while water collection, treatment and supply had the lowest import component.

Table 5.2 Annual Expenditures on Raw Materials by Activity and Source, KSh Million

				Percentage
	Imported	Domestic		share of
Activity	Materials	Materials	Total Materials	imports
Mining of non-ferrous metals ores	96.5	89.8	186.3	51.8
Other mining and quarrying	33.4	1,579.0	1,612.4	2.1
Mining support service activities	2.9	2.7	5.6	51.8
Manufacture of food products	40,185.9	162,683.2	202,869.1	19.8
Manufacture of beverages	14,385.0	12,201.6	26,586.6	54.1
Manufacture of tobacco products	5,257.8	2,214.6	7,472.4	70.4
Manufacture of textiles	7,797.3	9,994.7	17,792.1	43.8
Manufacture of wearing apparel	4,659.3	2,506.3	7,165.6	65.0
Manufacture of leather and related products	2,411.1	3,725.8	6,136.9	39.3
Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	878.0	12,621.9	13,499.9	6.5
Manufacture of paper and paper products	8,116.7	6,295.5	14,412.2	56.3
Printing and reproduction of recorded media	8,531.1	13,768.9	22,300.0	38.3
Manufacture of coke and refined petroleum products	55,071.8	555.1	55,626.9	99.0
Manufacture of chemicals and chemical products	16,268.2	13,729.5	29,997.7	54.2
Manufacture of pharmaceuticals, medicinal chemical and botanical products	2,977.8	1,863.5	4,841.3	61.5
Manufacture of rubber and plastics products	26,146.6	5,009.5	31,156.1	83.9
Manufacture of other non-metallic mineral products	16,179.5	3,715.6	19,895.1	81.3
Manufacture of basic metals	17,194.6	7,278.4	24,473.0	70.3
Manufacture of fabricated metal products, except machinery and	ŕ	ŕ	ŕ	
equipment	17,332.7	6,413.3	23,746.0	73.0
Manufacture of computer, electronic and optical products	335.9	312.5	648.4	51.8
Manufacture of electrical equipment	4,009.9	1,442.2	5,452.1	73.5
Manufacture of machinery and equipment n.e.c.	1,429.3	7,517.8	8,947.1	16.0
Manufacture of motor vehicles, trailers and semi-trailers	2,544.6	3,469.6	6,014.1	42.3
Manufacture of other transport equipment	0.0	586.6	586.6	0.0
Manufacture of furniture	5,944.0	4,896.0	10,840.0	54.8
Other manufacturing	1,682.1	3,204.5	4,886.6	34.4
Repair and installation of machinery and equipment	1,996.7	834.6	2,831.2	70.5
Electricity, gas, steam and air conditioning supply	9,742.2	8,993.3	18,735.4	52.0
Water collection, treatment and supply	0.1	1,146.3	1,146.3	0.0
Sewerage	0.5	0.5	1.1	51.8
Waste collection, treatment and disposal activities; materials				
recovery	11.2	266.1	277.3	4.0
Remediation activities and other waste management services	0.0	0.0	0.0	0.0
Total	271,222.5	298,918.9	570,141.5	47.6

5.4 Expenditure on Electricity, Water and Fuel

Expenditure on "electricity, water and fuels" specifically includes expenses on coke, coal, electricity, wood-fuel, gas oil (heavy diesel, road diesel and other diesel), fuel oils, kerosene, lubricating oil, grease and water. In the presented analysis, the items were broadly categorized into three components. Petroleum products category consisted expenses on gas oil, fuel oils, grease, kerosene and lubricating oil. Electricity and water were grouped together though the total expenditure in this category largely reflects electricity costs. Expenses on wood-fuel, coke and coal were categorized as "coal and other fuels."



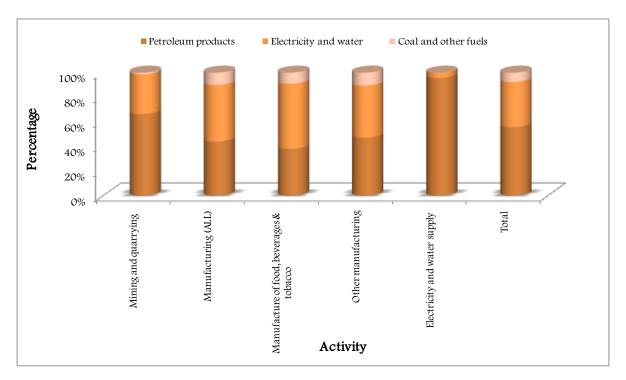


Figure 5.3 shows the expenditure structure of the three input categories by industry. Most of the expenditure in mining and quarrying activity was on petroleum products with negligible expenditure share in coal and other fuels. "Other manufacturing" activity (excluding manufacture of food, beverages and tobacco) recorded the least share of expenditure on petroleum products. The results indicate that mining and quarrying, and electricity supply activities depended heavily on petroleum products to produce. On the contrary, manufacture of food, beverages and tobacco spent more on electricity.

Annual expenditures at detailed activity level are presented in Table 5.3. Total expenditure on "electricity, water and fuel" for all industries amounted to KSh. 59.9 billion out of which 55.7 per cent was on petroleum products. Total expenditures on "electricity and water" and "coal and other fuels" were 36.9 per cent and 7.4 per cent, respectively. Comparison across activities showed manufacturing of food products and electricity supply activities as large purchasers of petroleum products and "coal and other fuels".

Table 5.3 Annual Expenditures on Petroleum Products, Electricity and Water and Other Fuels by Activity (KSh Million)

	Petroleum	Electricty	Coal and	
Activity	Products	and water	other fuels	Total
Mining of non-ferrous metals ores	164.2	140.4	1.9	306.4
Other mining and quarrying	1,978.1	899.9	42.8	2,920.9
Mining support service activities	1.0	0.9	0.0	1.9
Manufacture of food products	4,631.0	7,148.8	1,435.3	13,215.0
Manufacture of beverages	1,383.8	1,007.7	1.9	2,393.4
Manufacture of tobacco products	81.3	320.5	~	401.8
Manufacture of textiles	717.6	1,009.5	127.8	1,854.9
Manufacture of wearing apparel	140.9	298.1	8.5	447.5
Manufacture of leather and related products	168.3	495.2	~	663.5
Manufacture of wood and of products of wood and cork, except				
furniture; manufacture of articles of straw and plaiting materials	1,903.5	248.5	0.2	2,152.2
Manufacture of paper and paper products	1,470.5	1,173.7	644.5	3,288.7
Printing and reproduction of recorded media	691.2	514.0	26.4	1,231.6
Manufacture of coke and refined petroleum products	121.7	477.4	~	599.1
Manufacture of chemicals and chemical products	1,177.2	626.0	191.0	1,994.2
Manufacture of pharmaceuticals, medicinal chemical and	,			,
botanical products	101.5	135.3	5.4	242.2
Manufacture of rubber and plastics products	664.3	2,604.0	~	3,268.2
Manufacture of other non-metallic mineral products	3,155.5	1,471.3	1,936.2	6,562.9
Manufacture of basic metals	654.2	722.4	~	1,376.6
Manufacture of fabricated metal products, except machinery and				,
equipment	888.5	390.0	0.1	1,278.6
Manufacture of computer, electronic and optical products	5.4	0.5	~	5.9
Manufacture of electrical equipment	125.7	208.9	8.4	343.0
Manufacture of machinery and equipment n.e.c.	51.4	644.2	13.7	709.3
Manufacture of motor vehicles, trailers and semi-trailers	56.5	78.4	0.5	135.4
Manufacture of other transport equipment	0.3	254.0	~	254.3
Manufacture of furniture	214.0	134.4	~	348.4
Other manufacturing	729.7	317.7	0.5	1,047.9
Repair and installation of machinery and equipment	413.3	277.0	16.3	706.6
Electricity, gas, steam and air conditioning supply	11,546.0	168.8	~	11,714.8
Water collection, treatment and supply	134.8	205.9	4.6	345.3
Sewerage	1.6	0.2	~	1.8
Waste collection, treatment and disposal activities; materials				
recovery	7.6	132.5	~	140.1
Remediation activities and other waste management services	~	~	~	~
Total	33,380.4	22,106.1	4,465.9	59,952.4

5.5 Other Operating Expenses

In addition to the total cost of raw materials and expenditures on electricity, water and fuels, information was sought on the consumption of other operating expenses. The inquiries were restricted to the expenses that were important in the cost of production. Information collected included cost of repair and maintenance services of buildings and/or machinery; communication services; legal services; accounting, auditing, and bookkeeping services; advertising and promotional services; expensed computer hardware and supplies and purchased computer services; refuse removal services; management consulting and

administrative services; and all other expenses not previously stated. Each of these items reflected the costs paid directly by the establishment and excluded salaries paid to employees of the establishment for these services.

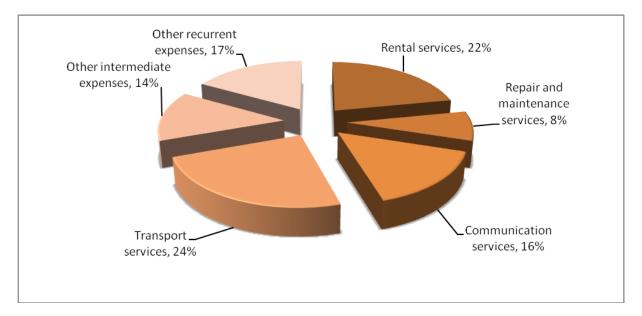


Figure 5.4: Components of "other operating expenses"

Excluded from the listed items were extensive repairs or reconstruction that was capitalized; costs incurred directly by the establishment in using its own work force to perform repairs and maintenance work, repairs and maintenance provided by the building or machinery owner as part of the rental contract.

Figure 5.4 shows the share composition of "other operating expenses." Firms recorded large expenses in transport services, rental services and communication services. The three groups of services accounted for more than 50 per cent of the total costs incurred.

Table 5.5 provides details on the distribution of "Other operating expenses" by activity where 16.8 per cent of the total "other operating expenses", which translated to KSh. 12.6 billion, were spent on purchases that had a direct effect on the cost of production.

Table 5.4 Other Operating Expenses by Broad Category and Activity (KSh million)

	Г	l		1		1	
	Rental	Repair and	Communicat~	Transport	Other input	Other	
Activity	services	maintenace	ion services	services	expenses	expense	Total
Mining of non-ferrous metals ores	-	~	-	-	~	-	~
Other mining and quarrying	260.9	210.2	48.1	184.0	103.0	231.5	1,037.8
Mining support service activities	0.2	~	0.1	~	0.0	0.2	0.4
Manufacture of food products	4,126.5	1,741.1	2,278.2	8,046.0	3,725.7	3,564.5	23,481.9
Manufacture of beverages	1,369.0	426.1	2,014.5	1,289.2	1,952.3	780.2	7,831.3
Manufacture of tobacco products	~	~	~	~	103.4	103.4	206.8
Manufacture of textiles	696.7	50.6	152.5	468.1	112.6	472.9	1,953.4
Manufacture of wearing apparel	461.6	14.4	103.6	168.7	27.4	201.7	977.4
Manufacture of leather and related products	88.9	62.5	77.6	219.3	132.2	376.3	956.8
Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	573.9	101.8	77.0	146.4	182.1	242.4	1,323.7
Manufacture of paper and paper products	212.4	157.5	194.4	554.2	257.3	771.3	2,147.1
	1,516.6	157.1	568.5	428.0	305.0	1,077.2	4,052.2
Printing and reproduction of recorded media	540.0	107.0	22.2	40.0	0104	20.0	1 207 0
Manufacture of coke and refined petroleum products	542.3	127.3	33.2	42.8	312.4	29.6	1,087.6
•	669.7	128.6	1,660.8	1,138.1	367.9	810.4	4,775.5
Manufacture of chemicals and chemical products							
Manufacture of pharmaceuticals, medicinal chemical and botanical products	236.9	209.1	265.5	255.7	107.6	171.1	1,246.1
Manufacture of rubber and plastics products	872.8	184.9	357.4	998.7	404.6	744.7	3,563.0
Manufacture of other non-metallic mineral products	525.8	792.2	890.7	301.3	194.2	287.9	2,992.1
Manufacture of basic metals	98.4	172.1	196.5	683.7	329.9	356.8	1,837.5
Manufacture of fabricated metal products, except machinery and equipment	1,236.4	148.0	214.6	498.4	524.4	788.4	3,410.1
Manufacture of computer, electronic and optical products	27.3	0.9	6.0	10.3	0.9	2.4	47.8
Manufacture of electrical equipment	74.0	146.5	88.3	120.3	49.2	62.9	541.1
	848.0	8.0	430.9	261.4	16.3	108.7	1,673.4
Manufacture of machinery and equipment n.e.c. Manufacture of motor vehicles, trailers and semi-	97.4	44.8	131.3	188.0	53.4	87.2	602.1
trailers	37.4	44.0	131.3	100.0	33.4	61.2	002.1
Manufacture of other transport equipment	27.7	~	7.4	13.0	0.5	10.6	59.1
Manufacture of furniture	725.9	15.5	155.6	327.0	32.8	118.1	1,374.9
Other manufacturing	156.7	47.0	77.4	252.7	46.6	99.2	679.6
Repair and installation of machinery and	188.8	71.5	137.6	255.1	85.1	295.4	1,033.6
equipment	0.40.1	025.5	1 000 0	1 222 2	000.4	0000	E 100.0
Electricity, gas, steam and air conditioning supply	642.1	905.5	1,230.0	1,038.0	668.4	636.9	5,120.8
Water collection, treatment and supply	67.1	38.5	215.2	123.3	86.8	134.8	665.7
Sewerage	0.6	0.6	0.9	1.2	1.1	1.2	5.6
Waste collection, treatment and disposal activities;	30.3	2.3	3.9	4.8	17.0	6.3	64.6
materials recovery Remediation activities and other waste management services	-	~	~	-	-	-	-
Total	16,375	5,964	11,618	18,018	10,200	12,574	74,749
				- 		 	

Table 5.5 Broad Expenditure Categories by Activity

	· ·	· ·			1		m. r. 1
				Other	Share of	Total	Total Intermediate
		Electricity,	Communi~	reccurent	intermediate	reccurent	Consumption
Activity	Raw material		cation services		consumption	expenditure	expenditure
Mining of non-ferrous metals ores	186.3	306.4	~	~	100.0%		492.8
Other mining and quarrying	1,612.4	2,920.9	806.3	231.5	95.8%	5,571.0	5,339.5
Mining support service activities	5.6	1.9	0.2	0.2	97.7%		7.7
Manufacture of food products	202,869.1	13,215.0	19,917.4	3,564.5	98.5%	239,566.0	236,001.5
Manufacture of beverages	26,586.6	2,393.4	7,051.1	780.2	97.9%	36,811.3	36,031.0
Manufacture of tobacco products	7,472.4	401.8	103.4	103.4	98.7%	8,081.0	7,977.6
Manufacture of textiles	17,792.1	1,854.9	1,480.4	472.9	97.8%	21,600.3	21,127.4
Manufacture of wearing apparel	7,165.6	447.5	775.7	201.7	97.7%	8,590.5	8,388.8
Manufacture of leather and related products	6,136.9	663.5	580.6	376.3	95.1%	7,757.3	7,381.0
Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	13,499.9	2,152.2	1,081.3	242.4	98.6%	16,975.7	16,733.3
Manufacture of paper and paper products	14,412.2	3,288.7	1,375.8	771.3	96.1%	19,848.0	19,076.7
Printing and reproduction of recorded media	22,300.0	1,231.6	2,975.1	1,077.2	96.1%	27,583.8	26,506.7
Manufacture of coke and refined petroleum products	55,626.9	599.1	1,058.0	29.6	99.9%	57,313.6	57,284.0
Manufacture of chemicals and chemical products	29,997.7	1,994.2	3,965.1	810.4	97.8%	36,767.4	35,957.0
Manufacture of pharmaceuticals, medicinal chemical and botanical products	4,841.3	242.2	1,074.9	171.1	97.3%	,	6,158.4
Manufacture of rubber and plastics products	31,156.1	3,268.2	2,818.3	744.7	98.0%	37,987.3	37,242.6
Manufacture of other non-metallic mineral products	19,895.1	6,562.9	2,704.2	287.9	99.0%	29,450.1	29,162.2
Manufacture of basic metals	24,473.0	1,376.6	1,480.7	356.8	98.7%	27,687.1	27,330.3
Manufacture of fabricated metal products, except machinery and equipment	23,746.0	1,278.6	2,621.7	788.4	97.2%	28,434.7	27,646.3
Manufacture of computer, electronic and optical products	648.4	5.9	45.4	2.4	99.7%	702.1	699.7
Manufacture of electrical equipment	5,452.1	343.0	478.2	62.9	99.0%	,	6,273.2
Manufacture of machinery and equipment n.e.c.	8,947.1	709.3	1,564.7	108.7	99.0%	11,329.8	11,221.1
Manufacture of motor vehicles, trailers and semi-trailers	6,014.1	135.4	514.9	87.2	98.7%	6,751.6	6,664.4
Manufacture of other transport equipment	586.6	254.3	48.6	10.6	98.8%		889.4
Manufacture of furniture	10,840.0	348.4	1,256.8	118.1	99.1%	<i>'</i>	12,445.3
Other manufacturing	4,886.6	1,047.9	580.4	99.2	98.5%	6,614.1	6,514.9
Repair and installation of machinery and equipment	2,831.2	706.6	738.2	295.4	93.5%	4,571.5	4,276.1
Electricity, gas, steam and air conditioning supply	18,735.4	11,714.8	4,483.9	636.9	98.2%	35,571.0	34,934.1
Water collection, treatment and supply	1,146.3	345.3	530.9	134.8	93.7%	2,157.3	2,022.5
Sewerage	1.1	1.8	4.4	1.2	85.8%	8.4	7.2
Waste collection, treatment and disposal activities; materials recovery	277.3	140.1	58.3	6.3	98.7%	481.9	475.7
Remediation activities and other waste management services	~	~	~	~	~	~	~
Total	570,141	59,952	62,175	12,574	98.2%	704,843	692,269

Chapter 6

Marketing of Industrial Products

6.1 Market Destination of Industrial Output

This section provides details on sales value of industrial output by local industries. The proportions of exports destined for East African Community (EAC) region and the Rest of the World (ROW) are also provided in the tables. The results are classified by major industrial sectors, ISIC REV 4 and also the corresponding sub-sectors.

The analysis used the annual sales figures based on the respondents' replies to questions relating to sales either to domestic market, EAC and ROW and the breakdown by top country of export. It should be noted that in interpreting these results, information is not readily available in standard financial statements and books of accounts, hence very difficult to tally with what is reported under trade figures.

Estimates from the census show that the four sectors covered realized a total of KSh 1,015.4 billion in sales during the year 2009. Manufacturing activities reported the largest share of sales (87.7 per cent). Electricity, Gas, Steam and Air Conditioning Supply was the second while Water and Sewerage Services had the lowest level of sales at KSh 10.4 billion. As shown in Table 6.1, most of the goods produced in Kenya are sold within the country, accounting for 83.5 per cent of all sales. The five EAC countries received goods close to KSh 55 billion, which is equivalent to 5.4 per cent of total sales. The other 11.8 per cent goes to the ROW which includes African countries which are not members of EAC and countries in other continents. Most of the products produced in the Electricity, Gas, Steam and Air conditioning supply sector are for the domestic market, with a small proportion exported to the EAC region.

Table 6.1 Value of Sales by Destination, KSh Million

Economic Activity	Total	Kenya	EAC	Rest of World
Mining and Quarrying	13,224.0	6,997.3	277.4	5,949.3
Manufacturing	890,117.6	728,778.1	54,597.6	106,741.8
Electricity, Gas, Steam and Air conditioning supply	101,700.3	101,696.2	4.1	~
Water supply, Sewerage	10,356.1	10,075.3	36.0	244.8
Total	1,015,398.0	847,546.8	54,915.2	112,935.9

Within the manufacturing sector, sales of food products, other non metallic mineral products, tobacco products, chemicals and chemical products, and fabricated metal products except machinery, are the leading sub-sectors to the EAC market by KSh 9,330.2, 6,358.6, 5,498.5, 5,446.7 and 4,457.6 Million respectively. In addition, sale of manufactured food products is leading in the category of ROW by KSh 74,497.0 Million, composition of which is mainly tea. Almost all the products in the Electricity, gas, steam and air conditioning supply; and water supply, sewerage and waste management activities are consumed locally as shown in Table 6.2.

Table 6.2 Value of Sales to Various Regions, KSh Million

Economic Activity	Total	Kenya	EAC	Rest of World
Mining and Quarrying				
Mining of metals ores	1,225.7	1,225.7	~	~
Other mining and quarrying	11,982.7	5,771.6	277.4	5,933.8
Mining support service activities	15.6	~	~	15.6
Total	13,224.0	6,997.3	277.4	5,949.3
Manufacturing				
Manufacture of food products	324,838.8	241,011.6	9,330.2	74,497.0
Manufacture of beverages	56,329.3	53,554.8	2,252.0	522.6
Manufacture of tobacco products	14,428.0	7,929.4	5,498.5	1,000.1
Manufacture of textiles	27,030.1	20,603.1	619.3	5,807.7
Manufacture of wearing apparel	14,976.5	12,412.9	260.7	2,302.8
Manufacture of leather and related products	14,962.0	10,085.8	2,650.4	2,225.8
Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting	24,972.3	24,342.8	594.9	34.5
Manufacture of paper and paper products	28,710.2	25,084.8	2,309.2	1,316.1
Printing and reproduction of recorded media	53,511.1	50,845.0	223.8	2,442.3
Manufacture of coke and refined petroleum products	4,696.8	4,515.2	181.5	~
Manufacture of chemicals and chemical products	63,588.7	55,456.2	5,446.7	2,685.8
Manufacture of pharmaceuticals, medicinal chemical and botanical products	16,993.4	7,941.7	2,144.8	6,906.9
Manufacture of rubber and plastics products	50,330.3	45,551.6	3,674.6	1,104.1
Manufacture of other non-metallic mineral products	52,401.1	44,650.6	6,358.6	1,242.4
Manufacture of basic metals	37,969.3	32,049.0	4,211.5	1,708.8
Manufacture of fabricated metal products, except machinery and equipment	39,315.8	33,965.4	4,457.6	892.9
Manufacture of computer, electronic and optical products	930.6	911.3	19.3	~
Manufacture of electrical equipment	10,983.3	8,857.2	1,972.1	153.9
Manufacture of machinery and equipment n.e.c.	12,075.3	11,188.0	740.4	147.0
Manufacture of motor vehicles, trailers and semi-trailers	15,261.3	14,026.4	1,234.9	~
Manufacture of other transport equipment	304.7	304.7	~	~
Manufacture of furniture	13,988.1	13,927.6	55.8	4.7
Other manufacturing	6,910.0	5,908.6	148.9	852.4
Repair and installation of machinery and equipment	11,817.5	10,711.7	211.8	894.0
Total	897,324.2	735,835.4	54,597.6	106,741.8
Electricity, Gas, Steam and Air conditioning supply			~	~
Electricity, gas, steam and air conditioning supply	94,492.6	94,488.5	4.1	~
Total	94,492.6	94,488.5	4.1	~
Water supply, Sewerage				
Water collection, treatment and supply	9,344.7	9,308.7	36.0	~
Sewerage	25.1	25.1	~	~
Waste collection, treatment and disposal activities; materials recovery	986.3	741.4	~	244.8
Total	10,356.1	10,075.3	36.0	244.8
Grand Total	1,015,398.0	847,546.8	54,915.2	112,935.9
Percentage Share	100.0	83.5	5.4	11.1

Chapter 7

Industrial Investments

7.1 Introduction

The chapter looks at the additions to various types of fixed assets and how they were invested in the different sub-sectors of the industrial sector. The census reveals that machinery and equipment and land were the most significant assets the sector invested in 2009. The bulk of the investment was in five activities namely, manufacture of other non-metallic mineral products, repair and installation of machinery and equipment, manufacture of fabricated metal products, manufacture of food products, and water collection, treatment and disposal activities. The rest of the activities only accounted for 21.8 per cent of the investments in fixed assets.

7.2 Additions to Fixed Assets and Gross Fixed Capital Formation

Investing in fixed assets is important to an economy because it increases the productive potential of the country and therefore a possible source of future economic benefit. The System of National Accounts (2008 SNA) defines "fixed assets" as produced assets (such as machinery, equipment, buildings or other structures) that are used repeatedly or continuously in production over several accounting periods (more than one year). Gross Fixed Capital Formation (GFCF) is then defined as the additions *less* disposals of fixed assets. Fixed assets may be own-produced or purchased from other producers. Table 7.1 presents details on additions to fixed assets by type and industry.

The census reveals that investments in fixed assets were largely in machinery and equipments, and land. Other machinery and equipments (includes transport equipments) constituted 46.1 per cent of the total additions to fixed assets. Establishment in the manufacture of other non-metallic mineral products accounted for 25.3 per cent of the total capital investments for the industrial sector while businesses in the repair and installation of machinery and equipment accounted for 22.3 per cent. Other activities that contributed significantly to the capital investment were the manufacture of fabricated metal products and manufacture of food products with contributions of 19.9 per cent and 8.5 per cent, respectively.

Expenditure on purchases of land constituted the second most important investment at 37.8 per cent of total assets. It is, however, important to note that while investment in land is important at the sector/industry level, ordinarily there are no additions to land at the national level. Investment in land was key in the manufacture of non-metallic mineral products of stones, sand and clay where it constituted 88.9 per cent of the additions to fixed assets. Other constructions and structures, transport equipments, and buildings also comprised significant components of additions to fixed assets. Combined, the sectors invested Ksh 79.1 billion in both tangible and intangible fixed assets in 2009.

Table 7.1 Fixed Assets by Type and Industry KSh Million

Table 1.1 Tixed Indeed by Type				n.r.			ş		
		Land Development/ improvements	ings	Other Construction/stru ctures	ICT Equipment	Machinery and equipment	Intangible Assets	ę.,	
Activity	Land	Land Devel impr	Buildings	Other Const	ICT I	Mach equip	ntan	Other	Total
Mining of non-ferrous metals ores	~	~	~	~	~	~		~	
Other mining and quarrying	5.1	9.1	46.3	11.7	33.4	622.8	179.5	14.2	922.1
Mining support service activities	~	~	~	~	~	~	~	~	~
Manufacture of food products	106.0	274.7	900.7	314.2	240.1	4,553.1	18.1	323.6	6,730.5
Manufacture of beverages	247.8	27.0	94.5	(499.9)	11.3	2,277.7	10.8	(489.0)	1,680.2
Manufacture of tobacco products	~	164.0	~	~	~	817.3	148.0	148.0	1,277.3
Manufacture of textiles	165.9	0.7	21.3	4.6	5.3	235.7	1.4	6.0	440.9
Manufacture of wearing apparel	~	~	(22.4)	0.1	1.0	29.6	0.8	0.9	10.1
Manufacture of leather and related products	12.3	14.2	247.7	825.2	10.5	187.2	~	825.2	2,122.3
Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of									ŕ
straw and plaiting materials	34.1	152.6	29.1	~	0.2	190.5	0.5	0.5	407.5
Manufacture of paper and paper products	4.8	23.7	6.2	7.6	8.2	311.2	2.0	7.6	371.3
Printing and reproduction of recorded media	14.1	(13.4)	(7.7)	(0.2)	14.7	193.9	4.2	1.1	206.7
Manufacture of coke and refined petroleum products	~	~	~	0.4	(0.0)	1.0	~	0.4	1.8
Manufacture of chemicals and chemical products	132.5	4.9	101.3	3.9	46.4	545.5	12.4	21.9	868.8
Manufacture of pharmaceuticals, medicinal chemical and botanical products	2.0	~	6.5	2.8	4.4	359.1	2.7	4.7	382.3
Manufacture of rubber and plastics products	116.6	1.2	10.3	20.5	128.0	1,126.9	4.6	25.1	1,433.1
Manufacture of other non-metallic mineral products	17,780.4	~	53.1	246.3	74.2	1,410.9	95.1	341.5	20,001.5
Manufacture of basic metals	0.4	12.2	132.5	~	8.1	1,123.5	0.3	0.3	1,277.4
Manufacture of fabricated metal products, except machinery and equipment	3.9	18.7	45.4	1.8	2.0	15,380.1	142.0	143.0	15,736.8
Manufacture of computer, electronic and optical products	~	~	~	~	~	~	~	~	~
Manufacture of electrical equipment	20.1	~	27.8	~	3.9	352.4	0.3	0.3	404.8
Manufacture of machinery and equipment n.e.c.	4.4	~	4.2	31.1	0.7	9.5	~	31.2	81.2
Manufacture of motor vehicles, trailers and semi- trailers	1.9	~	11.3	8.7	1.2	36.4	0.5	8.9	68.8
Manufacture of other transport equipment	~	~	~	~	~	~	~	~	~
Manufacture of furniture	(0.1)	~	0.1	0.0	1.0	1.8	~	0.0	2.9
Other manufacturing	~	1.0	0.0	~	0.3	115.2	~	~	116.6
Repair and installation of machinery and equipment	11,264.7	30.4	383.3	12.6	134.1	5,808.2	1.8	14.4	17,649.5
Electricity, gas, steam and air conditioning supply	~	-	17.0	12.6	~	409.1	0.0	12.6	451.4
Water collection, treatment and supply	3.8	2.9	4.3	3,031.5	45.8	344.5	0.6	3,032.7	6,466.1
Sewerage	~	~	~	~	~	~	~	´ ~	, ~
Waste collection, treatment and disposal activities; materials recovery	~	~	0.4	0.0	0.3	3.1	~	0.0	3.8
Remediation activities and other waste management services	~	<u>~</u>	~	~	~	~	~	~	~
Total	29,920.7	723.8	2,113.2	4,035.6	775.3	36,446.2	625.7	4,475.1	79,115.5

Capital expenditure on intangible assets, which includes research and development, computer software and database and mineral exploration and evaluation constituted the least of the investments at 0.8 per cent.

7.3 Inventories

Inventories are stocks of goods held by firms to meet temporary or unexpected fluctuations in production or sales, and "work in progress". Work in progress is a valuation of output on economic activities that cut across accounting periods. For instance, most large projects in construction take more than one year to complete and therefore valuation of output for each accounting period then comprises the work in progress. Inventories are merchandise, raw materials, and finished and unfinished products which have not yet been sold and held in store by an establishment. They are considered liquid assets as can be converted into cash quite easily. Inventories of finished products are particularly important in meeting unexpected increase in customer demand and avoiding loss of sale. A slump in demand can lead to a buildup in inventories which can result to locking capital in the inventories. Inventories of raw materials help in stabilizing production in the event of supply disruption.

Table 7.2 Changes in Inventories by Activity and Type of Product, 2009 KSh. Million

	hed 1cts	Products purchased for resale	Work-in- orogress		Raw materials*	
Activity	Finished products	Products purchase for resale	Work-ir progress	Fuel	Raw matei	Total
Mining of non-ferrous metals ores	~	~	~	~	~	~
Other mining and quarrying	(35.1)	(8.0)	825.1	(168.0)	65.5	679.5
Mining support service activities	~	(13.6)	~	~	~	(13.6)
Manufacture of food products	2,890.3	(288.2)	(302.5)	105.7	1,331.7	3,737.1
Manufacture of beverages	(380.1)	22.1	(8.4)	(5.3)	377.2	5.6
Manufacture of tobacco products	(31.1)	~	51.7	~	193.3	213.9
Manufacture of textiles	(302.8)	8.2	(32.0)	0.5	790.0	463.9
Manufacture of wearing apparel	106.2	(0.1)	(194.9)	(2.5)	127.7	36.3
Manufacture of leather and related products	178.8	2.3	32.2	0.3	6.3	219.9
Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	47.0	7.3	(322.6)	1.3	370.2	103.2
Manufacture of paper and paper products	(146.9)	154.2	12.3	(15.6)	119.7	123.7
Printing and reproduction of recorded media	(49.9)	(278.9)	(327.6)	(0.3)	97.2	(559.6)
Manufacture of coke and refined petroleum products	~	~	~	~	~	~
Manufacture of chemicals and chemical products	323.7	(137.0)	(111.2)	4.4	(379.6)	(299.6)
Manufacture of pharmaceuticals, medicinal chemical and botanical products	124.7	(1.8)	(36.6)	(4.1)	(135.9)	(53.6)
Manufacture of rubber and plastics products	54.8	164.1	(268.7)	(2.5)	(159.8)	(212.1)
Manufacture of other non-metallic mineral products	(1,239.9)	27.1	(3.2)	125.7	1,904.5	814.3
Manufacture of basic metals	(219.7)	(79.1)	(123.7)	(82.9)	(2,026.5)	(2,531.8)
Manufacture of fabricated metal products, except machinery and equipment	449.1	18.0	(85.8)	0.6	(1,332.1)	(950.3)
Manufacture of computer, electronic and optical products	~	(2.6)	~	~	~	(2.6)
Manufacture of electrical equipment	79.5	80.1	149.1	0.0	80.4	389.2
Manufacture of machinery and equipment n.e.c.	84.1	0.9	(42.7)	(0.1)	16.9	59.1
Manufacture of motor vehicles, trailers and semi-trailers	194.7	(573.9)	(73.5)	4.3	(474.1)	(922.5)
Manufacture of other transport equipment	~	~	~	~	~	~
Manufacture of furniture	(488.3)	76.7	31.3	(3.9)	(122.9)	(507.2)
Other manufacturing	20.9	5.5	(12.4)	(0.0)	(62.7)	(48.7)
Repair and installation of machinery and equipment	17.1	(28.5)	0.9	63.0	(1,797.1)	(1,744.6)
Electricity, gas, steam and air conditioning supply	~	~	~	~	143.8	143.8
Water collection, treatment and supply	(0.3)	1.0	(46.2)	2.2	1.5	(41.8)
Sewerage	~	~	~	~	~	~
Waste collection, treatment and disposal activities; materials recovery	(0.6)	(3.4)	~	~	~	(4.0)
Remediation activities and other waste management services	~	~	~	~	~	~
Total	1,676.3	(847.4)	(889.4)	22.8	(864.9)	(902.6)

Table 7.2 presents value of changes in the inventories for the various types of products for 2009. Overall, the value of finished products in the inventories increased by Ksh 1.6 billion while value of products purchased for resale and work-in-progress decreased by Ksh 847.4 million and Ksh 889.4 million respectively. The highest build-up in the inventories was realized in the manufacture of foods and manufacture of other non-metallic and mineral products and supply which rose by Ksh 3.7 billion and Ksh 1.1 billion, respectively. On the other hand, businesses in the manufacture of basic metals and those in repair and installation of machinery equipments reported the highest reduction in their inventories at Ksh 2.5 billion and Ksh 1.7 billion respectively.

7.4 Investments

Investments are made of the inventories and the gross fixed capital formation. Inventories are usually materials and supplies held as inputs by establishments and output held in store waiting to be sold while gross fixed capital formation is additions (*less disposals*) to fixed assets.

Table 7.3 shows investments by type for the various activities of the industrial sector. While the sector invested an equivalent of Ksh 79.1 billion in fixed assets, the sector's inventories were depleted by Ksh 902.6 billion. Consequently, the total investments (gross capital formation) amounted to Ksh 78.2 billion in 2009. The data suggests that the bulk of the gross fixed capital formation was on account of additions to fixed assets. As such the trends in the sectoral contributions follow more or less that of the GFCF.

Table 7.3 Industrial Investment

	O E' 1		
A of the	Gross Fixed	Changes in	Gross Capital
Activity	Capital	Inventories	Formation
No. 1	Formation		
Mining of non-ferrous metals ores	000.1	~	- 1 001 F
Other mining and quarrying	922.1	679.5	1,601.5
Mining support service activities	~	(13.6)	(13.6)
Manufacture of food products	6,730.5	3,737.1	10,467.6
Manufacture of beverages	1,680.2	5.6	1,685.8
Manufacture of tobacco products	1,277.3	213.9	1,491.2
Manufacture of textiles	440.9	463.9	904.8
Manufacture of wearing apparel	10.1	36.3	46.3
Manufacture of leather and related products	2,122.3	219.9	2,342.2
Manufacture of wood and products of wood and cork, except			
furniture; manufacture of articles of straw and plaiting materials	407.5	103.2	510.7
Manufacture of paper and paper products	371.3	123.7	495.0
Printing and reproduction of recorded media	206.7	(559.6)	(352.9)
Manufacture of coke and refined petroleum products	1.8	~	1.8
Manufacture of chemicals and chemical products	868.8	(299.6)	569.2
Manufacture of pharmaceuticals, medicinal chemical and			
botanical products	382.3	(53.6)	328.6
Manufacture of rubber and plastics products	1,433.1	(212.1)	1,221.0
Manufacture of other non-metallic mineral products	20,001.5	814.3	20,815.8
Manufacture of basic metals	1,277.4	(2,531.8)	(1,254.4)
Manufacture of fabricated metal products, except machinery and	,	, , , ,	` ,
equipment	15,736.8	(950.3)	14,786.5
Manufacture of computer, electronic and optical products	~	(2.6)	(2.6)
Manufacture of electrical equipment	404.8	389.2	794.0
Manufacture of machinery and equipment n.e.c.	81.2	59.1	140.3
Manufacture of motor vehicles, trailers and semi-trailers	68.8	(922.5)	(853.7)
Manufacture of other transport equipment	~	(022.0)	(000:1)
Manufacture of furniture	2.9	(507.2)	(504.3)
Other manufacturing	116.6	(48.7)	67.8
Repair and installation of machinery and equipment	17,649.5	(1,744.6)	15,905.0
Electricity, gas, steam and air conditioning supply	451.4	<i>'</i>	595.2
*, • ,		143.8	
Water collection, treatment and supply	6,466.1	(41.8)	6,424.3
Sewerage	~	~	~
Waste collection, treatment and disposal activities; materials	2.2	(4.3)	(2.0)
recovery	3.8	(4.0)	(0.2)
Remediation activities and other waste management services	~	~	~
Total	79,115.5	(902.6)	78,212.9

7.5 Contribution of Industrial Sector to the GDP in 2009

Details of gross output, intermediate consumption, and value added are presented in Table 7.5. Total gross output of all the industrial activities was valued at Ksh 1,009.2 billion while intermediate consumption totaled Ksh 689.8 billion. In absolute terms, the contribution of the industrial sector to the country's GDP was Ksh 319.8 billion.

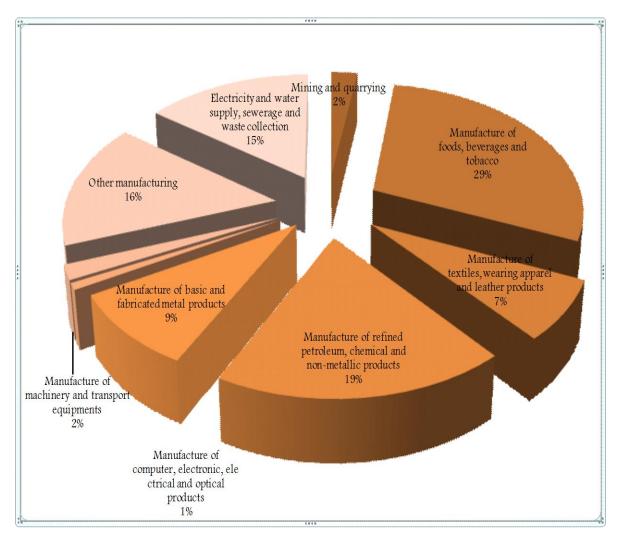
Table 7.5 Contribution of the Industrial Sector to the GDP in 2009, KSh million

Activity	Gross output	Intermediate Consumption	Gross Value Added
Mining of non-ferrous metals ores	1,225.70	492.77	732.93
Other mining and quarrying	12,092.61	5,230.52	6,862.09
Mining support service activities	15.56	7.70	7.85
Manufacture of food products	300,306.55	235,958.27	64,348.28
Manufacture of beverages	60,449.56	36,031.03	24,418.52
Manufacture of tobacco products	12,238.82	7,977.63	4,261.19
Manufacture of textiles	30,842.07	21,035.44	9,806.63
Manufacture of wearing apparel	15,994.10	8,365.18	7,628.92
Manufacture of leather and related products	13,529.54	7,381.12	6,148.42
Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	19,709.72	15,587.58	4,122.14
Manufacture of paper and paper products	26,352.35	19,048.96	7,303.39
Printing and reproduction of recorded media	52,310.33	26,506.67	25,803.67
Manufacture of coke and refined petroleum products	77,259.68	57,284.04	19,975.65
Manufacture of chemicals and chemical products	51,605.80	35,949.20	15,656.61
Manufacture of pharmaceuticals, medicinal chemical and botanical products	7,689.61	6,151.74	1,537.87
Manufacture of rubber and plastics products	48,477.50	37,282.64	11,194.86
Manufacture of other non-metallic mineral products	40,169.48	28,606.51	11,562.97
Manufacture of basic metals	41,382.35	27,311.25	14,071.10
Manufacture of fabricated metal products, except machinery and equipment	43,101.47	27,652.80	15,448.67
Manufacture of computer, electronic and optical			2.22.
products	1,013.06	699.72	313.34
Manufacture of electrical equipment	8,695.66	6,370.56	2,325.11
Manufacture of machinery and equipment n.e.c.	13,402.21	11,221.07	2,181.14
Manufacture of motor vehicles, trailers and semi- trailers	10,210.45	6,663.15	2 547 20
Manufacture of other transport equipment	832.00	708.48	3,547.30 123.52
Manufacture of other transport equipment Manufacture of furniture	13,359.39	12,445.28	914.11
Other manufacturing	9,602.85	5,659.10	3,943.74
Repair and installation of machinery and	9,602.83	3,639.10	5,545.14
equipment	12,311.91	4,273.99	8,037.92
Electricity, gas, steam and air conditioning supply	79,682.45	34,934.15	44,748.31
Water collection, treatment and supply	4,539.96	2,022.50	2,517.46
Sewerage	10.58	7.22	3.35
Waste collection, treatment and disposal activities; materials recovery	739.50	475.68	263.81
Remediation activities and other waste	133.30	410.00	203.01
management services	~ 4 000 4 TO 55	~	~
Total	1,009,152.82	689,341.94	319,810.88

Overall, ratio of the intermediate consumption to the gross output was 68.3 per cent. However, this ratio varied widely across the different activities of the industrial sector. Manufacture of furniture reported the highest value of intermediate at 93.2 per cent while repair and installation of machinery and equipment reported the lowest ratio of intermediate consumption to gross output at 34.7 per cent. This can be explained by the fact that the repairing activities are labour intensive which is not considered part of intermediate consumption.

A comparison of the various activities' value added show that other manufacturing sector accounted for 69.7 per cent of the industrial sector GDP. Mining and quarrying reported the lowest contribution at 2.4 per cent of the industrial sector's GDP. Electricity, gas and water supply contributed 14.8 per cent to the industrial's economic activities.

Figure 7.1: Contribution to Industrial Sector GDP



Notes

- 1. All the 2,567 establishments targeted were surveyed. However, despite several reminders and subsequent phone calls and field visits to persuade respondents to fill in the questionnaires, the response rate reached about 82 per cent in terms of number of establishments and 95 per cent in terms of gross output by the end of April 2011.
- 2. The response rate may be addressed after having identified the problems and constraints of the various industries in providing the requested information. A sample of the respondents, representative of the various industries could be convened for a feedback meeting to identify practical issues of the CIP methodology. Information from the meeting would give indications on changes that need to be brought in the questionnaire and eventually to the strategy as regards the data collection.
- 3. Currently, detailed information on output and input are requested from all establishments through around a 22 page questionnaire. This may be a burden to respondents. Given that the aim of the CIP is to have detailed information on input and output of industries, to reduce respondent burden, it is proposed that at the next CIP, shorter questionnaire requesting information on the main aggregates be sent to all large establishments and a more detailed one to a representative sample only.
- 4. There is also need to have the support of various industries and employers' associations before the launching of the censuses. This may be done through a workshop to sensitize participants on the importance of statistical data for policy decision making.
- 5. There is need to capture the informal units in future surveys so as to improve the responses for activities such as mining and quarrying which form the bulk of this sector.
- 6. There has recently been more and more demand for information on the Small and Medium Enterprises (SMEs) and the "informal" sector. These two sectors will be covered at a later stage. There is now an urgent need to arrive at clear workable definitions of the SMEs and the "informal" sector, so that relevant questions to identify these two sectors could be included in the questionnaires at the next CIP. This will enable the dissemination of separate statistics on these two sectors, particularly following Government policy to boost the SMEs.

Appendix 1: Questionnaire

Main Business Activity	
Please check the one ma	in activity at this business unit which most accurately describes your principal source of operating revenue:
	Mining and Quarrying Manufacturing Electricity, Gas, Steam, air conditioning Water supply, Sewerage, waste management and remediation Activities
Acknowledgement of re	eccipt of the questionnaire
I,(enter name of reci	pient) (enter name of establishment)
	he Census of Industrial Production (CIP) 2010 questionnaire.
Title:	
Tel:	
Signature, Date and Stamp:	
Interviewer:	
Date of collection of questionnaire and financial statements:	

Thank you for receiving and accepting to fill the questionnaire.

NOTE: This page should be filled-in by the person who is receiving the questionnaire on behalf of the entity at the time of delivery by the interviewer. After it is signed, the interviewer should retain the original copy of this page.





REPUBLIC OF KENYA

CENSUS OF INDUSTRIAL PRODUCTION (CIP) 2010 QUESTIONNAIRE

MEASURING ACTIVITIES OF MINING, QUARRYING, MANUFACTURING, ELECTRICITY, GAS, STEAM AND AIR CONDITIONING SUPPLY, WATER SUPPLY, SEWERAGE, WASTE MANAGEMENT AND REMEDIAL ACTIVITIES

1 <u>Authority</u>

This census is conducted under the Statistics Act 2006. In accordance with this Act, the data reported on this questionnaire will be treated in strict confidence, used for statistical purposes only.

Objective

The Census of Industrial production of enterprises in Kenya is carried out by Kenya National Bureau of Statistics (KNBS) in conjunction with the Ministry of Industrialization. The data collected will be used for Policy Planning. Industrial establishments

Completion Instructions

The following notes are meant to help you to complete the form. It is therefore important that you read and understand them before completing it. More specific notes have been provided as filling instructions to the Form, for your reference. Please print

(i) Who is to complete this form

All enterprises in Kenya, which are engaged in manufacturing, mining, quarrying, Electricity, gas, steam and air conditioning supply, Water supply, sewerage, Waste management and remedial activities are required to complete this form. In cases where one

Period covered

The information required is for the calendar year 2009.

(iii) Completion and submission of the Form

The questionnaire sent to the establishment has a carbon copy. Once filled, the original should be returned to the Director General, KNBS and the copy retained by the establishment for future reference.

All sections of the form must be completed. Any parts, which may not be applicable, should be indicated as "not applicable". The duly completed form and any correspondence relating to the form or any other issue concerning the Census of Industrial Product

Or

The Director, Production Statistics Kenya National Bureau of Statistics Herufi Hse, Lt. Tumbo Avenue P. O. Box 30266 - 00100 Nairobi. Tel: 020-317583/6/8

e.mail: jgatungu@knbs.or.ke or: director@knbs.or.ke

Director, IIRPD Ministry of Industrialization Teleposta Towers, 22nd Floor Kenyatta Avenue P.O. Box 30418 ~ 00100, Nairobi Tel: 020~315001~6

e.mail:pdede@industrialization.go.ke

The nearest District Industrial Development Office (DIDO)/District Statistical Office (DSO).

Financial Statements

Some of the information required for this enquiry can be obtained from the Financial Statements for the years 2008/2009 and 2009/2010. Kindly attach the copies of your Financial Statements for the two years to the completed questionnaire.

Other Comments

In case you have any comments or information relating to the data provided, please insert them in the comment box found on page 20

1. GENERAL PARTICULARS OF THE ESTABLISH	HMENTS			
1.1 Name of Establishment:				
1.2 Business Address:				
1.3 Physical Location:(Street name)	(Build	ding)		
1.4 Town:				
			OFFICIAL USE	
1.5 County:		Code:		
1.6 Telephone No:				
1.7 Fax No:				
1.8 Website Address (URL):				
1.9 E_mail Address:				
1.10 Contact person:	Designation:			
1.11 E_mail address:	Tel No:			
1.12 In what year did this company/estab	olishment begin operations in the country?.		(YYYY)	
1.13 If your return covers more than one	establishment i.e. factory/workshop/mine/	/quarry/plant s	tate	
number of establishments covered:				
Give details for each establishment/branc	ch(es)/affiliates covered in terms of name, ty	ype of activity ar	nd physical location i.e. street a	nd town
Name	Activity		Physical Location	
1				
2				
2				
3				
4				
	2 1 11 1 2 21 1 1 1 2 22		1)	
2. CHARACTERISTICS OF ESTABLISHMENT (I	Jata should as far as possible relate to ONE	establishment	only)	
- · · · · · · · · · · · · · · · · · · ·	rom January to December 2009; if not, indic Month Year	cate period cove	ered in the table below:	
From:				
To:				
To: If the period covered is less than 12 mont.	hs, then please give an explanation			

2.2 Economic Activities:
Please select the sub-sector(s) that best describes this establishment's economic activity (ies) using the following International Standards of Industrial Classifications (ISIC) (Select a maximum of 3):

ndustry	Sub-Sector	Code	(Tick
Mining and Quarrying	Mining of hard coal	0510	-
	Mining of lignite	0520	
	Extraction of crude petroleum	0610	
	Extraction of natural gas	0620	
	Mining of iron ores	0710	
	Mining of uranium and thorium ores	0721	
	Mining of other non-ferrous metal ores	0729	
	Quarrying of stone, sand and clay	0810	
	Mining of chemical and fertilizer minerals	0891	
	Extraction of peat	0892	
	Extraction of salt	0893	
	Other mining and quarrying not elsewhere classified (nec).	0899	
	Support activities for petroleum and natural gas extraction	0910	
3.5 a san Ca atravita a	Support activities for other mining and quarrying	0990	
Manufacturing	Processing and preserving of meat	1010	
	Processing and preserving of fish, crustaceans and molluscs	1020	
	Processing and preserving of fruit and vegetables	1030	
	Manufacture of vegetable and animal oils and fats	1040	
	Manufacture of dairy products	1050	
	Manufacture of grain mill products	1061	
	Manufacture of starches and starch products	1062	
	Manufacture of bakery products	1071	
	Manufacture of sugar	1072	
	Manufacture of cocoa, chocolate and sugar confectionery	1073	
	Manufacture of macaroni, noodles, couscous and similar farinaceous products	1074	
	Manufacture of prepared meals and dishes	1075	
	Manufacture of other food products not elsewhere classified (nec).	1079	
	Manufacture of prepared animal feeds	1080	
	Distilling, rectifying and blending of spirits	1101	
	Manufacture of wines	1102	
	Manufacture of malt liquors and malt	1103	
	Manufacture of soft drinks; production of mineral waters and other bottled waters	1104	
	Manufacture of tobacco products	1200	
	Preparation and spinning of textile fibres	1311	
	Weaving of textiles	1312	
	Finishing of textiles	1313	
	Manufacture of knitted and crocheted fabrics	1391	
	Manufacture of made-up textile articles, except apparel	1392	
	Manufacture of carpets and rugs	1393	
	Manufacture of cordage, rope, twine and netting	1394	
	Manufacture of other textiles not elsewhere classified (nec).	1399 1410	
	Manufacture of wearing apparel, except fur apparel		
	Manufacture of articles of fur	1420	
	Manufacture of knitted and crocheted apparel	1430	
	Tanning and dressing of leather; dressing and dyeing of fur Manufacture of luggage, handbags and the like, saddlery and harness	1511	
		1512	
	Manufacture of footwear Sawmilling and planing of wood	1520 1610	
		1610	
	Manufacture of veneer sheets and wood-based panels		
	Manufacture of builders' carpentry and joinery	1622	
	Manufacture of wooden containers	1623	
	Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials	1629	
	Manufacture of pulp, paper and paperboard	1701	
	Manufacture of corrugated paper and paperboard and of containers of paper		
	and paperboard	1702	
	Manufacture of other articles of paper and paperboard	1709	
	Printing Samiles activities related to surjective	1811	
	Service activities related to printing	1812	
	Reproduction of recorded media	1820	
	Manufacture of coke oven products	1910	
	Manufacture of refined petroleum products	1920	
	Manufacture of basic chemicals	2011	
	Manufacture of fertilizers and nitrogen compounds	2012	
	Manufacture of plastics and synthetic rubber in primary forms	2013	
	Manufacture of pesticides and other agrochemical products	2021	
	Manufacture of paints, varnishes and similar coatings, printing ink and mastics	2022	
	Manufacture of soap and detergents, cleaning and polishing preparations,		

Manufacture of other chemical products not elsewhere classified (nec).	2029	
Manufacture of man-made fibres	2030	
Manufacture of pharmaceuticals, medicinal chemical and botanical products	2100	
tyres Manufacture of other rubber products	2211 2219	
Manufacture of other rubber products Manufacture of plastics products	2220	
Manufacture of glass and glass products	2310	
Manufacture of refractory products	2391	
Manufacture of clay building materials	2392	
Manufacture of other porcelain and ceramic products	2393	
Manufacture of cement, lime and plaster	2394	
Manufacture of articles of concrete, cement and plaster	2395	
Cutting, shaping and finishing of stone	2396	
(nec).	2399	
Manufacture of basic iron and steel	2410	
Manufacture of basic precious and other non-ferrous metals	2420	
Casting of iron and steel	2431	
Casting of non-ferrous metals Manufacture of structural metal products	2432 2511	
Manufacture of structural metal products Manufacture of tanks, reservoirs and containers of metal	2512	
Manufacture of steam generators, except central heating hot water boilers	2512	
Manufacture of weapons and ammunition	2520	
Forging, pressing, stamping and roll-forming of metal; powder metallurgy	2591	
Treatment and coating of metals; machining	2592	
Manufacture of cutlery, hand tools and general hardware	2593	
Manufacture of other fabricated metal products not elsewhere classified (nec).	2599	
Manufacture of electronic components and boards	2610	
Manufacture of computers and peripheral equipment	2620	
Manufacture of communication equipment	2630	
Manufacture of consumer electronics	2640	
Manufacture of measuring, testing, navigating and control equipment	2651	
Manufacture of watches and clocks	2652	
Manufacture of irradiation, electromedical and electrotherapeutic equipment	2660	
Manufacture of optical instruments and photographic equipment Manufacture of magnetic and optical media	2670 2680	
	2660	
Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus	2710	
Manufacture of batteries and accumulators	2720	
Manufacture of fibre optic cables	2731	
Manufacture of other electronic and electric wires and cables Manufacture of wiring devices	2732 2733	
Manufacture of wiring devices Manufacture of electric lighting equipment	2740	
Manufacture of domestic appliances	2750	
Manufacture of other electrical equipment	2790	
Manufacture of engines and turbines, except aircraft, vehicle and cycle engines	2811	
Manufacture of fluid power equipment	2812	
Manufacture of other pumps, compressors, taps and valves	2813	
Manufacture of bearings, gears, gearing and driving elements	2814	
Manufacture of ovens, furnaces and furnace burners	2815	
Manufacture of lifting and handling equipment	2816	
Manufacture of office machinery and equipment (except computers and peripheral equipment)	2817	
Manufacture of power-driven hand tools	2818	
Manufacture of other general-purpose machinery	2819	
Manufacture of special-purpose machinery	282	
Manufacture of agricultural and forestry machinery	2821	
Manufacture of metal-forming machinery and machine tools	2822	
Manufacture of machinery for metallurgy	2823	
Manufacture of machinery for mining gramming and construction		
Manufacture of machinery for mining, quarrying and construction Manufacture of machinery for food, beverage and tobacco processing	2824 2825	
Manufacture of machinery for food, beverage and tobacco processing	2825	
Manufacture of machinery for food, beverage and tobacco processing Manufacture of machinery for textile, apparel and leather production		
Manufacture of machinery for food, beverage and tobacco processing	2825 2826	
Manufacture of machinery for food, beverage and tobacco processing Manufacture of machinery for textile, apparel and leather production Manufacture of other special-purpose machinery Manufacture of motor vehicles Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers	2825 2826 2829	
Manufacture of machinery for food, beverage and tobacco processing Manufacture of machinery for textile, apparel and leather production Manufacture of other special-purpose machinery Manufacture of motor vehicles Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers	2825 2826 2829 2910 2920	
Manufacture of machinery for food, beverage and tobacco processing Manufacture of machinery for textile, apparel and leather production Manufacture of other special-purpose machinery Manufacture of motor vehicles Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers Manufacture of parts and accessories for motor vehicles	2825 2826 2829 2910	
Manufacture of machinery for food, beverage and tobacco processing Manufacture of machinery for textile, apparel and leather production Manufacture of other special-purpose machinery Manufacture of motor vehicles Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers	2825 2826 2829 2910 2920 2930	
Manufacture of machinery for food, beverage and tobacco processing Manufacture of machinery for textile, apparel and leather production Manufacture of other special-purpose machinery Manufacture of motor vehicles Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers Manufacture of parts and accessories for motor vehicles Building of ships and floating structures	2825 2826 2829 2910 2920 2930 3011	
Manufacture of machinery for food, beverage and tobacco processing Manufacture of machinery for textile, apparel and leather production Manufacture of other special-purpose machinery Manufacture of motor vehicles Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers Manufacture of parts and accessories for motor vehicles Building of ships and floating structures Building of pleasure and sporting boats	2825 2826 2829 2910 2920 2930 3011 3012	
Manufacture of machinery for food, beverage and tobacco processing Manufacture of machinery for textile, apparel and leather production Manufacture of other special-purpose machinery Manufacture of motor vehicles Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers Manufacture of parts and accessories for motor vehicles Building of ships and floating structures Building of pleasure and sporting boats Manufacture of railway locomotives and rolling stock	2825 2826 2829 2910 2920 2930 3011 3012 3020	
Manufacture of machinery for food, beverage and tobacco processing Manufacture of machinery for textile, apparel and leather production Manufacture of other special-purpose machinery Manufacture of motor vehicles Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers Manufacture of parts and accessories for motor vehicles Building of ships and floating structures Building of pleasure and sporting boats Manufacture of railway locomotives and rolling stock Manufacture of air and spacecraft and related machinery Manufacture of military fighting vehicles Manufacture of motorcycles	2825 2826 2829 2910 2920 2930 3011 3012 3020 3030 3040 3091	
Manufacture of machinery for food, beverage and tobacco processing Manufacture of machinery for textile, apparel and leather production Manufacture of other special-purpose machinery Manufacture of motor vehicles Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers Manufacture of parts and accessories for motor vehicles Building of ships and floating structures Building of pleasure and sporting boats Manufacture of railway locomotives and rolling stock Manufacture of air and spacecraft and related machinery Manufacture of military fighting vehicles Manufacture of motorcycles Manufacture of bicycles and invalid carriages	2825 2826 2829 2910 2920 2930 3011 3012 3020 3030 3040 3091 3092	
Manufacture of machinery for food, beverage and tobacco processing Manufacture of machinery for textile, apparel and leather production Manufacture of other special-purpose machinery Manufacture of motor vehicles Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers Manufacture of parts and accessories for motor vehicles Building of ships and floating structures Building of pleasure and sporting boats Manufacture of railway locomotives and rolling stock Manufacture of air and spacecraft and related machinery Manufacture of military fighting vehicles Manufacture of motorcycles	2825 2826 2829 2910 2920 2930 3011 3012 3020 3030 3040 3091	

	Manufacture of jewellery and related articles	3211
	Manufacture of imitation jewellery and related articles	3212
	Manufacture of musical instruments	3220
	Manufacture of sports goods	3230
	Manufacture of games and toys	3240
	Manufacture of medical and dental instruments and supplies	3250
	Other manufacturing not elsewhere classified (nec).	3290
	Repair of fabricated metal products	3311
	Repair of machinery	3312
	Repair of electronic and optical equipment	3313
	Repair of electrical equipment	3314
	Repair of transport equipment, except motor vehicles	3315
	Repair of other equipment	3319
	Installation of industrial machinery and equipment	3320
lectricity, gas, steam and air	Electric power generation, transmission and distribution	3510
onditioning supply	Manufacture of gas; distribution of gaseous fuels through mains	3520
	Steam and air conditioning supply	3530
Vater supply; sewerage, waste	Water collection, treatment and supply	3600
nanagement and remediation	Sewerage	3700
ctivities	Collection of non-hazardous waste	3811
	Collection of hazardous waste	3812
	Treatment and disposal of non-hazardous waste	3821
	Treatment and disposal of hazardous waste	3822
	Materials recovery	3830
	Remediation activities and other waste management services	3900
lease give accurate description o	f	
he main activity of establishment		

2.3 Type of Ownership (tick one)

1	Sole Proprietorship	
2	Partnership	
3	Private Limited Company	
4	Public Limited Company	
5	Cooperative	
6	Parastatal	
7	Local Authorities	
8	Central Government	
9	Other Type(Specify)	

Please show all monetary information in Kenya Shillings

	110000 0110 11 011 1110110001 / 111101	111001011 111 1101	, w D11111112	<u>-</u>				
2.4 Sh	nare Capital:							
	(i) Nominal (KSh) :							
	(ii) Estimated market value (KSh):							
	(iii) Paid up (KSh) :							
	Of paid up, how much:							
	(a) Kenyan , (KSh)		~~					
	(b) Other E.African, (KSh) Tanzania	ın U	Jgandan	Burun	dian	Rwand	ese	
	(c) Foreign (State Residence and Ca	pital ownership):						
		_	Country			Capital (K	Sh)	
	1 st :					•		
	2 nd :							••
	3 rd .							-,
	J .							••
3. EMPL	OYMENT, HOURS WORKED AND CO	MPENSATION O	F EMPLOYEES	3				
3.1	Number of Persons Employed (as at	SOfth Tune 2009	and SO th Iune	2010)				
		June 2000		2010)				
No	Items		Citizen Male	Female	Non-Citize Male	Female	Male Total	Female
3.1.1(a)	Proprietors	2009						
3.1.1(b)	Unpaid Family Workers	2010						
3.1.1(b)	Onpaid family Workers	2010						
3.1.2	Employees of which:	0220						
3.1.3.1	Permanent Employees	2009 2010						
3.1.3.2	Contract Employees	2009						
3.1.3.3	Casual Employees	2010						
	1 3	2010						
3.2	Average weekly work hours per em	mlarraa /Nirramban	of Months W					
		ployee/ Number	OI MIOIIIIS W			Tay 1		1
No	Items			hours per	eekly work employee	worked	f Months /year	
3.2.1(a)	Proprietors							1
3.2.1(b)	Unpaid Family Workers							
3.2.2	Employees of which:							1
3.2.2.1	2 0							1
3.2.2.3	* v							1
3.3	Compensation of Employees							
No	Items		Total (KSh) 2009	As at J	June 2009	As at June 2010	
3.3.1	Wages and salaries in cash of employ	ees of which:						
3.3.1.1	Permanent Employees							
3.3.1.2	Contract							1
3.3.1.3	Casual Employees							
3.3.2	Wages and salaries in kind except soc							
3.3.3	Social Insurance contributions by emp	oloyers**]
*	Costs of free meals, canteen subsidies,							ıntary
	training and education costs, sports fa	cilities, and all ot	her costs, which	ch are volunta	rily made by	the employer	for	
**	Compulsory employer's contributions	to NSSF/other pe	nsion schemes	, NHIF, accide	nt compensat	tion, and othe	er schemes for the be	nefit of
	employees.							
3.4								
	If your company provides formal inter	rnal/external trai	ning to its emp	oloyees, what	was the value	of expenditu	re in year 2009? (Ks	h)

4. PRODUCTION, INSTALLED CAPACITY

4.1 What was the average level of <u>capacity</u> utilization in your company during the year 2009?%

(Capacity utilisation is defined as the current level of production compared to what would have been produced if all the

	Description of products (List all products produced)		HS (Code		Unit Of Measurement (Please conform to use of standard units)	Actual production in the year 2009 (Qty)	Total Value of product (KSh)	CPC	Code:	s (offi	ice use
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												

If more than 18 products, please attach list of the products and details

 ${f 5}$. **REASONS FOR UNDERUTILIZATION:** If your company's production capacity was not fully utilized, rank the most important reasons for underutilization of capacity using a scale of 1 to 4.

- 1 High
- 2 Moderate
- 3 Low
- 4 N/A

REASONS	Code	Priority Ranking
Insufficient domestic demand	11	
2. Shortage of domestic inputs	12	
3. Shortage of imported inputs	13	
4. Unbalanced plant (bottleneck)	14	
5. Old (obsolete) plant	15	
6. Plant maintenance problems due to:		
6.1 Lack of spare parts	16	
6.2 Shortage of skilled labour	17	
7. High cost and/or shortage of credit	18	
8. Breakdowns in supply of power	19	
9. Breakdowns in supply of water	20	
10. Competition from imports	21	
11. Loss of products due to strikes, stoppages etc.	22	
12. Uncompetitiveness of exports due to:		
12.1 High price of products due to:		
12.1.1 High cost of materials	23	
12.1.2 High cost of fuels	24	
12.1.3 High cost of electricity	25	
12.1.4 High cost of labour	26	
12.2 Poor quality of products	30	
12.3 Poor transport facilities and/or high transport cost	31	
12.4 Low plant productivity	32	
12.5 Low labour productivity	33	
12.6 Inability to grant credit to customers	34	
13.0 Counterfeits	40	
14.0 Any other reason (Please Specify)	99	

6 INVENTORIES

	Value of inventories in 2009(KSh)				
Type of product (s)	At beginning of the year(Opening Stocks)	At end of year (Closing Stocks)			
6.1 Finished products *					
6.2 Products purchased for resale **					
6.3 Work-in-progress					
6.4 Fuel ***					
6.5 Raw materials, components, spare parts, Tools etc. ***					

^{*} Use enterprise gate (sales) prices (less indirect taxes, like VAT and Excise duties) to value stocks of finished products and work-in-progress. In the latter case, a proportion of the price

7 ANNUAL EXPENDITURE ON GOODS AND SERVICES

7.1 Annual Electricity, Water and Fuel Purchased at purchaser's price 1

		Actual Consumption		Maximum Capacity Requirement
ITEM		Quantity	Value (KSh)	Quantity
1. Coal	Tonne			
2. Coke	Tonne			
3. Fuelwood by Source and type				
Government Plantations (Indigenous)	Tonne			
Government Plantations (exotic)	Tonne			
Private Plantations (Indigenous)	Tonne			
Private Plantations (exotic)	Tonne			
Small Scale (Indigenous)	Tonne			
Small Scale (exotic)	Tonne			
4. Gas(LPG)	Cubic metres			
5 Gas Oil				
(i) Road diesel	Litre			
(ii) Heavy Gas oil	Litre			
(iii) Other Gas oil	Litre			
6. Motor Gasoline	Litre			
7. Fuel oils	Litre			
8. Electricity	Kwh			
9. Kerosine	Litre			
10. Lubricating oil	Litre			
11. Grease	Kg			
12. Water	Cubic metres			
13. Others(Specify)				

¹Exclusive of Deductible VAT; include other taxes and duties paid or payable

^{**} Products purchased for resale should be valued at the prices prevailing at the time of valuation (beginning yr/end yr) as distinct from prices at which they were originally purchased and entered as

^{***} Use purchasers' price (Exclusive of Deductible VAT;include other taxes and duties paid or payable).

7.2 Materials and Supplies Purchased: i.e. raw materials, materials for repairs to buildings and equipment, small tools not considered part of capital assets, packaging, office supplies, etc. (include other taxes, transport costs to enterprise and duties paid or payable excluding deductible VAT)

S/No	Product*	1										Major Raw materials										
3, .10					Local	lly Pro	duce	d Raw	Materials									Impo	rted Raw materials	,		
		Description of the Raw							Unit of	Total	Total Cost/year	Description of the Raw						1	Unit of	Total	Total Cost/year	Top Country of origin
		Material							Measurement ¹	Qty/yr	(KSh)	Material							Measurement ¹	Qty/yr	(KSh)	
			Ļ		HS C	ode									HS	Code						
1																						
			Ħ	\top	H		t	П						1	t	Ħ	7	\dagger				
			H	╀	Н	+	+	Н					Н	+	+	\mathbb{H}	+	╁				
			H	\dagger	H	T	T	П						+	t	H	T	\dagger				
2			H	╀	Н	+	+	Н					Н	+	+	\mathbb{H}	+	╁				
_																						
			H	\dagger	H	T	t	П						1	t	H	1	\dagger				
			H	H	H	+	H	Н					Н	+	+	H	+	+		-		
			Ш																			
3			Ħ				T	П						T	t		1	T				
			H	╁	Н	+	╁	Н					H	+	+	H	+	╁				
			Ц																			
			Ħ					П							Ť		Ī					
			Н	+	Н	+	╁	Н						+	+	H	+	+				
			Ц		Ш		L	Ц					Ш	_	ļ	Щ	_					
4																						
			П					П														
			H	-	H	+	1	Н					H	+	$^{+}$	H	+	+				
			Н	-		-		Н						4	1		4	\perp				
								П														
5			H	\dagger	H	\dagger	H	H					H	\dagger	t	$\dag \dag$	1	\dagger				
			Н	+	H	-	L	Н					Н	+	Ļ	Н	4	+		<u> </u>		
			Ш					Ц					\bigsqcup								<u> </u>	
			\prod			T								T	Γ		Ī					
			H	t	H	+	H	H					H	+	t	\forall	1	Ť				
			${f H}$	ł		+	ŀ	H					H	+	+	+	+	+				
			Ц																			
6																						
			H	T	Ħ	\dagger	Ì	Ħ					П	\dagger	t	H	1	Ť				
			H	╁	H	+	ł	Н					Н	+	+	H	+	+				
			Ц		Ш			Ц					Ц		L	Ш						
			H	t	Ħ	\dagger		Ħ					Ħ	T	t	Ħ	1	Ť				
	<u> </u>	sheet if necessary	Ш	L	Ц	\perp	L	Ш			1		Ц	\perp	L	Ш	\perp	\perp			<u> </u>	1

^{*} Continue on separate sheet if necessary

8. OTHER EXPENSES (KSh):	ITEM	VALUE(KSh)
a.Rental of buildings		
b.Rental of machinery and equipment		
c.Minor repairs and maintenance(including repair of IT equip	ment)	
d.Telecommunications		
e.Other information and computer related services		
f.Postal and Courier Services		
g.Expenses on air tickets		
h.Printing		
i.Hire of transport		
Freight Transport		
Passenger Transport		
j. Warehousing storage and handling charges		
k.Clearing and forwarding charges		
1.Advertising and promotion		
m.Security services		
n.Consulting and management fees		
o.Other business services (legal, accounting, etc.)		
p.Other business travel expenses		
q.Bank charges		
r.Expenditure on environmental protection		
s.Insurance (for works)		
t.Other, specify		
9. ANNUAL COST OF GOODS PURCHASED FOR RESALE	KSh	
10. TOTAL EXPENDITURE	KSh	

11. SALES AND	OTHER REVENUES
---------------	----------------

11.1 Total Sales KSh

11.2 Annual sales to the domestic market (Kenyan)
All products sold during the year including Value Added Tax, excise duty and any other indirect tax and excluding rebates and duty drawback

Product description	Har	monis	sed Sy	stem (Code	(HS)	Unit of measurements (UOM)*	Code (Office use	(for e only)	Total quantity sold during the year	Value of annual sales (KSh)

^{*} Please conform to use of standard units

11.3 Annual Sales To EAC Market

Product description	Har	monis	sed sys	stem ((HS) (Code	Unit of Measurement	offic	e (for	Total quantity exported during	Value of export sales (FOB)	Top EAC Country to	which	export	ed
							(UOM)*	on	ly)	the year	(KSh)	Name	Code	(for off only)	ice use
	L		L		L										
Total															

^{*} Please conform to use of standard units

11.4 Annual Sales To Rest of the World

Annual Sales To Rest of the World							Unit of	Code	e (for	Total quantity		Top Country to	which ex	ported	
Product description	Har	monis	sed sy	stem ((HS) (Code	Measurement (UOM)*	offic	e use	exported during the year	sales (FOB) (000 KShs)	Name	Code	(for offi only)	
							_			_	_				
Total												_			

^{*} Please conform to use of standard units

Other incomes (KSn): (Examples are consultancy fees, rent received from niring ou	t of venicles, machinery or buildings, value of own construction of machinery, buildings etc.)
ITEM	VALUE(KSh)
(i)	
(ii)	
(iii)	
	(i)

12 Plant and Technology in Use

									State	Country o	of Origin		Year of	Year of		Annual
Description of Plant/Machinery and Equipment*	1	Harm	onise	ed Sys	tem	(HS)	Code:	S	Whether 1. New 2. Used	Name		e (for o	Manufactur e	Agguigitio	Number of pieces	maintananaa

^{*} If you have more than one (1) equipment/machinery of the same type with different year of manufacture, year of acquisation or country of origin, enter separately.

^{12.1.} What is the average age of your capital equipment (Machinery and other equipment used in production)?.....years

2. Getting inforrmation about good and service					
3. Getting information from government organ			es via website	S	
4. Reading/Downloading electronic books, new	vpaper or	magazine			
5. Purchasing or ordering goods or services					
6. Internet Banking					
7 Providing customer service					
8. Research					
9. Other(specify)					
13.13 E-commerce 13.13.1 Did your business place orders(mak 1. Yes 2. No 13.13.2 Did your business receive orders(mak 1. Yes 2. No		_			
13.13.3 Did your business make payments fo	or <u>via tł</u>	<u>ne internet du</u>	ring the perio	d(2009)	
Item	Yes	No	D/K		
Taxes					
Statutory deductions eg NHIF, NSSF, Pensions	3				
Salaries					
13.13.3 Value of goods and services Item			r ·	 SH	1
	المعناء والمارة		K)11	1
1. Value of goods and services purchased throu					•
2. Value of goods and services sold through the	internet e	excluding VAT]
13.13.4 What proportion of your business to \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) Excluding \	/AT did those interno
Item		Positive	Negative	Neutral	
1. Employment					
2. Production					
3. Sales					
4. Communication					
5. Records Management					
6. Transaction time					
7. Business costs					1
8. Keeping pace with competitors					
9. Others (please specify)]

13.12 Which of the following activities did(company) use internet for during the period 2009 (Multiple responses

1. Communicating (Email/Internet phone)

13 INFORMATION TECHNOLOGY INFRASTRUCTURE AND RELATED SERVICES

13.1 Does your company have the following?

Infrastructure	1. Yes	2. No	3. D/K	If Yes How many?
1. Computer				
2. Telephone line				
3. Mobile phone				
4. Post box				
5. Website				
6. Local Area Network				
7. Intranet				
8.Extranet				
9. Internet				

5. Website								
or reposite								
6. Local Area								
letwork								
7. Intranet						1		
3.Extranet						4		
). Internet						J		
13.2 What type of a Fixed line 2. Wireless (Wimax 3. Satellite (VSAT) 4. Mobile Modem 5. Fibre connection 6. Other (specify). 13.3 Since when 6. 13.4 Does your but 15.	ilid the busi	iness acq	uire the in	nternet co	onnection	er than or equa	ul to 256Kbps)?	
3.5 What bandw	ridth are yo	u usino	for intorn					
			ior intern	et connec	tivity in you	r business?		Kbps
13.6 How reliable	is the inte	_		et connec	Very reliabl	•	Not reliable	Very unreliable
3.6 How reliable 3.7 Has the ease	of internet 1. Yes	connect	nection? ion impro	ved after	Very reliabl	e Reliable	Not reliable a cables in 2008?	Very unreliable
3.6 How reliable 3.7 Has the ease 3.8 Did internet 3.9 Domain nam	of internet 1. Yes connectivi 1. Yes	connect 2. No	ion impro 3.D/K ve your sa	ved after	Very reliable	Reliable of the underse		Very unreliable
3.6 How reliable 3.7 Has the ease 3.8 Did internet 3.9 Domain namem	of internet 1. Yes connectivi 1. Yes	connect 2. No ty impro 2. No	ion impro 3.D/K sve your sa 3.D/K	ved after	Very reliabl	e Reliable		Very unreliable
3.6 How reliable 3.7 Has the ease 3.8 Did internet 3.9 Domain nametem Does your business	of internet 1. Yes connectivi 1. Yes s have a don	connect 2. No ty impro 2. No	ion impro 3.D/K ve your sa 3.D/K	ved after	Very reliable	Reliable of the underse		Very unreliable
3.6 How reliable 3.7 Has the ease 3.8 Did internet 3.9 Domain nametem Does your business	of internet 1. Yes connectivi 1. Yes s have a don	connect 2. No ty impro 2. No	ion impro 3.D/K ve your sa 3.D/K	ved after	Very reliable	Reliable of the underse		Very unreliable
3.6 How reliable 3.7 Has the ease 3.8 Did internet 3.9 Domain namelem Does your business Does your business	of internet I. Yes connectivi I. Yes e s have a don s have a dot	connect 2. No ty impro 2. No nain nam ke doma	ion impro 3.D/K ve your sa 3.D/K 3.D/K	ved after	Very reliable the landing	e Reliable of the underse	a cables in 2008?	Very unreliable
3.6 How reliable 3.7 Has the ease 3.8 Did internet 3.9 Domain namelem Does your business Does your business 3.10 What proper	of internet I. Yes connectivi I. Yes e s have a don s have a dot	connect 2. No ty impro 2. No nain nam ke doma	ion impro 3.D/K ve your sa 3.D/K 3.D/K	ved after	Very reliable the landing	e Reliable of the underse		Very unreliable
3.6 How reliable 3.7 Has the ease 3.8 Did internet 3.9 Domain nametem Does your business Does your business	of internet I. Yes connectivi I. Yes e s have a don s have a dot	connect 2. No ty impro 2. No nain nam ke doma	ion impro 3.D/K ve your sa 3.D/K 3.D/K	ved after	Very reliable the landing	e Reliable of the underse	a cables in 2008?	Very unreliable

13.12 Which of the following activities did(company)	use internet fo	r during the per	iod 2009 (Multip	ole responses)
Communicating (Email/Internet phone)				
2. Getting inforrmation about good and services				
3. Getting information from government organizations, pr		via websites		
4. Reading/Downloading electronic books, newpaper or r	magazine			
5. Purchasing or ordering goods or services				
Internet Banking Providing customer service				
8. Research				
9. Other(specify)				
13.13 E-commerce				
13.13.1 Did your business place orders(make purchase	ses) for goods o	r services <u>via th</u>	e internet during	the period(200
1. Yes 2. No	_			-
13.13.2 Did your business receive orders(make sales)	for goods or so	uriosa vria tha im	town at Avrein a tha	mamia 4(2000)
1. Yes 2. No	for goods or sei	vices via the in	the during the	periou(2009)
13.13.3 Did your business make payments forvia th	he internet duri	ng the neriod(2)	009)	
Item	Yes	No	D/K	1
				1
Taxes				-
Statutory deductions eg NHIF, NSSF, Pensions				-
Salaries				_
13.13.3 Value of goods and services			_	
Item			K	SH
 Value of goods and services purchased through the inte 		r's price		
2. Value of goods and services sold through the internet ex	xcluding VAT			
13.13.4 What proportion of your business total turnor %	-		cluding VAT did	tnose internet sa
% 13.14 How has the use of modern technology and ICI	-		Negative	those internet sa
% 13.14 How has the use of modern technology and ICI Item	-	llowing?		
% 13.14 How has the use of modern technology and ICI (tem I. Employment	-	llowing?		
% 13.14 How has the use of modern technology and ICI Item 1. Employment 2. Production	-	llowing?		
% 13.14 How has the use of modern technology and ICI Item 1. Employment 2. Production 3. Sales	-	llowing?		
% 13.14 How has the use of modern technology and ICI Item 1. Employment 2. Production 3. Sales	-	llowing?		
% 13.14 How has the use of modern technology and ICI Item 1. Employment 2. Production 3. Sales 4. Communication 5. Records Management	-	llowing?		
% 13.14 How has the use of modern technology and ICI Item 1. Employment 2. Production 3. Sales 4. Communication 5. Records Management 6. Transaction time	-	llowing?		
% 13.14 How has the use of modern technology and ICI Item 1. Employment 2. Production 3. Sales 4. Communication 5. Records Management	-	llowing?		

13.15 Expenses in connection with IT related products and services for reporting period at purchaser's price 1

Expenditure	KSH
1 Internet/ E-mail account	
2. Fixed telephone	
3. Mobile phone	
4. Postage	
5. Maintenance/repair of IT related equipment	
6. Training in IT	
(i)Local	
(ii)Overseas	
7. Consultancy services	
8. Leased/dedicated lines(s)	
9. Other current expenses(toner, CD, flash disks, cartridge etc)	
TOTAL	

13.16 How would you rate the cost of internet connection?

High	Fair	Low	D/K

13.17 Capital expenditure

KSH

¹All purchasers price should be inclusive of Customs and Excise duties but exclusive of deductible VAT

14. RESEARCH AND DEVELOPMENT

1	1	Franchiture	
Arpae	and	Expenditure	

Expenditure(KSh)	
	Expenditure(XSh)

If not undertaking research and development, kindly provide reason(s):									

15. FIXED ASSETS

(Fixed assets consist of building and construction works, machinery and equipment with a productive life of more than one year. New purchases comprise acquisition of new locally produced items and imports of both new and used items. Costs of major improve

liem	Net Book value at the		additions during the		Sale of Fixed assets			
	beginning of the year		Year (KSh)		during the year	Depreciation (KSh) (-		Net Book Value at end
	(KSh)	Purchased		Own Produced +Own)	assets (+\~)	of Period (KSh)
	(ABDA)	New assets (+)	Used assets(+)	Construction	(1001) ()			
1. Land								
2. Land Development/improvements								
3.Residential Buildings								
4. Non-residential buildings								
5. Other Construction/structures								
6. Machinery and equipment								
6.1 Transport Equipment								
6.2 ICT Equipment								
6.3 Other Machinery and equipment								
7. Intellectual property(including patents, software, copyrights)								
7.1 Research and Development								
7.2 Mineral exploration and evaluation								
7.3 Computer software and database								
7.4 Entertainment, literary and artistic originals								
8. Other (specify)								
Total								

Comment Box1
Please make any comments that would help us better interpret the data provided to avoid further queries.
Comment Box2 Please make any other general comments
Declaration I hereby declare that the information provided in this questionnaire is complete and correct to the best of my knowledge and belief.
Thereby deciate that the information provided in this questionnaire is complete and correct to the best of my knowledge and benefit.
Signature Date
Person to be contacted if queries arise concerning this return(Tick)
The person named above
The following person:
Name
Address Email
After completing this questionnaire, please retain a duplicate for reference purposes.
FOR OFFICE USE ONLY
Edited and Coded by:
Checked by:Verified by:

Thank you for your cooperation

Appendix 2 Distribution of establishments by Industries and counties

	Nairobi City	Kiambu	Kirinyaga	Murang'a	Nyandarua	Nyeri	Kilifi	Kwale	Lamu	Mombasa	Taita/Taveta
Mining of metals ores	0	0	0	0	0	0	0	1	0	0	0
Other mining and quarrying	14	6	0	0	0	0	3	0	0	1	2
Mining support service activities	1	0	0	0	0	0	0	0	0	0	0
Manufacture of food products	156	133	88	127	2	54	13	0	0	23	5
Manufacture of beverages	27	3	0	0	0	3	1	0	0	9	0
Manufacture of tobacco products	2	0	0	0	0	0	0	0	0	0	0
Manufacture of textiles	51	7	1	0	0	0	2	0	0	11	1
Manufacture of wearing apparel	33	5	0	0	0	1	1	0	0	8	0
Manufacture of leather and related products	14	6	1	0	0	0	0	0	0	5	0
Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting ma	38	0	1	0	0	2	3	0	0	5	0
Manufacture of paper and paper products	39	2	0	0	0	0	0	0	0	2	0
Printing and reproduction of recorded media	143	3	0	0	0	2	1	0	0	11	0
Manufacture of coke and refined petroleum products	6	1	0	0	0	0	0	0	0	1	0
Manufacture of chemicals and chemical products	119	1	0	0	0	0	0	0	0	5	0
Manufacture of pharmaceuticals, medicinal chemical and botanical products	22	2	0	0	0	0	0	0	0	0	0
Manufacture of rubber and plastics products	99	6	0	0	0	0	0	1	0	8	0
Manufacture of other non-metallic mineral products	28	0	0	1	0	0	1	1	0	2	0
Manufacture of basic metals	14	4	0	0	0	0	0	0	0	8	0
Manufacture of fabricated metal products, except machinery and equipment	61	5	0	0	0	0	1	0	0	8	0
Manufacture of computer, electronic and optical products	2	0	0	0	0	0	0	0	0	0	0
Manufacture of electrical equipment	13	0	0	0	0	0	0	0	0	1	0
Manufacture of machinery and equipment n.e.c.	23	1	0	0	0	0	0	0	0	0	0
Manufacture of motor vehicles, trailers and semi-trailers	48	1	0	0	0	0	0	0	0	5	0
Manufacture of other transport equipment	2	0	0	0	0	0	1	0	0	1	0
Manufacture of furniture	48	3	0	0	0	0	3	0	0	4	0
Other manufacturing	13	3	0	0	0	0	1	0	0	5	0
Repair and installation of machinery and equipment	53	3	0	0	0	0	0	0	0	4	0
Electricity, gas, steam and air conditioning supply	8	0	0	0	0	0	2	0	0	0	0
Water collection, treatment and supply	7	11	2	4	0	1	2	0	2	3	1
Sewerage	0	0	0	0	0	0	1	0	0	0	0
Waste collection, treatment and disposal activities; materials recovery	6	0	0	0	0	0	0	0	0	0	0
Total	1090	206	93	132	2	63	36	3	2	130	9

	Embu	Kitui	Machakos	Makueni	Marsabit	Meru	Tharaka- Nithi	Garissa	Mandera	Homa Bay	Kisii
Mining of metals ores	0	0	1	0	0	0	0	0	0	0	0
Other mining and quarrying	0	0	5	1	0	0	0	0	0	1	1
Mining support service activities	0	0	0	0	0	0	0	0	0	0	0
Manufacture of food products	20	4	10	0	1	33	4	2	0	2	7
Manufacture of beverages	0	0	0	0	0	0	1	0	0	2	1
Manufacture of tobacco products	0	0	0	0	0	0	0	0	0	0	0
Manufacture of textiles	0	0	4	1	0	2	0	0	0	0	0
Manufacture of wearing apparel	0	0	4	0	1	1	0	0	0	0	0
Manufacture of leather and related products	0	0	1	0	0	0	0	0	1	0	0
Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting ma	2	0	1	0	0	1	0	0		0	0
Manufacture of paper and paper products	0	0	2	0	0	0	0	0	0	0	0
Printing and reproduction of recorded media	1	0	0	0	0	0	0	0	0	0	0
Manufacture of coke and refined petroleum products	0	0	0	0	0	0	0	0	0	0	0
Manufacture of chemicals and chemical products	0	0	2	0	0	0	0	0	0	0	1
Manufacture of pharmaceuticals, medicinal chemical and botanical products	0	0	2	0	0	0	0	0	0	0	0
Manufacture of rubber and plastics products	1	0	4	0	0	0	0	0	0	0	0
Manufacture of other non-metallic mineral products	0	0	3	0	0	1	0	0	0	0	0
Manufacture of basic metals	0	0	3	0	0	0	0	0	0	0	0
Manufacture of fabricated metal products, except machinery and equipment	0	1	6	0	0	0	0	0		0	0
Manufacture of computer, electronic and optical products Manufacture of electrical equipment	0	0	0	0	0	0	0	0		0	0
Manufacture of machinery and equipment n.e.c.	0	0	0	0	0	0	0	0	0	0	0
Manufacture of motor vehicles, trailers and semi- trailers	0	0	1	0	0	0	0	0	0	0	0
Manufacture of other transport equipment	0	0	0	0	0	0	0	0	0	0	0
Manufacture of furniture	0	0	3	0	0	1	0	0	0	1	0
Other manufacturing	0	0	2	0	0	0	0	0	0	0	0
Repair and installation of machinery and equipment	0	0	0	0	0	0	0	0	0	0	0
Electricity, gas, steam and air conditioning supply	4	0	1	0	0	0	0	0	0	0	0
Water collection, treatment and supply	2	1	1	0	1	2	0	1	0	0	0
Sewerage	0	0	1	0	0	0	0	0	0	0	0
Waste collection, treatment and disposal activities; materials recovery	0	0	0	0	0	0	0	0	0	0	0
Total	30	6	57	2	3	41	5	3	1	6	10

							Elgeyo/Mara				
	Kisumu	Migori	Nyamira	Siaya	Baringo	Bomet	kwet	Kajiado	Kericho	Laikipia	Nakuru
Mining of metals ores	1	0	0	0	0	0	0	0	0	0	0
Other mining and quarrying	4	0	0	0	1	0	1	4	0	1	3
Mining support service activities	0	0	0	0	0	0	0	0	0	0	0
Manufacture of food products	14	3	6	2	5	12	1	1	18	4	34
Manufacture of beverages	4	0	0	1	0	0	0	0	1	0	6
Manufacture of tobacco products	0	0	0	0	0	0	0	0	0	0	0
Manufacture of textiles	1	0	0	0	0	0	0	0	0	2	9
Manufacture of wearing apparel	0	0	0	0	0	0	0	0	0	1	0
Manufacture of leather and related products	0	0	0	0	0	0	0	0	0	0	1
Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting ma	0		0	0	1	0	0	0	0	1	13
Manufacture of paper and paper products	2		0	0	0		0	0	0	0	0
Printing and reproduction of recorded media	2		0	0	0		0	0	2	1	4
Manufacture of coke and refined petroleum products	0	0	0	0	0	0	0	0	0	0	0
Manufacture of chemicals and chemical products	1	0	0	0	0	0	0	0	0	0	2
Manufacture of pharmaceuticals, medicinal chemical and botanical products	0	0	0	0	0	0	0	0	0	0	0
Manufacture of rubber and plastics products	1	0	0	0	0	0	0	0	0	0	0
Manufacture of other non-metallic mineral products	2	0	0	0	0	0	1	1	0	0	1
Manufacture of basic metals	1	0	0	0	0	0	0	1	0	0	0
Manufacture of fabricated metal products, except machinery and equipment	6	0	0	0	0	1	0	1	0	1	5
Manufacture of computer, electronic and optical products	0	0	0	0	0	0	0	0	0	0	0
Manufacture of electrical equipment	0	0	0	0	0	0	0	0	0	0	0
Manufacture of machinery and equipment n.e.c.	0	0	0	0	0	0	0	0	0	0	3
Manufacture of motor vehicles, trailers and semi- trailers	1	0	0	0	0	0	0	0	0	0	2
Manufacture of other transport equipment	0	0	0	0	0	0	0	0	0	0	0
Manufacture of furniture	2	0	0	0	0	0	0	0	0	0	1
Other manufacturing	2	0	0	0	0	0	0	1	1	0	1
Repair and installation of machinery and equipment	3	0	0	0	0	0	0	0	0	1	2
Electricity, gas, steam and air conditioning supply	0	0	0	0	0	0	0	0	0	0	1
Water collection, treatment and supply	2	0	0	7	0	0	0	1	1	3	7
Sewerage	0	0	0	0	0	0	0	0	0	0	0
Waste collection, treatment and disposal activities; materials recovery	0	0	0	0	0	0	0	0	0	0	0
Total	49	3	6	10	7	13	3	10	23	15	95

	Nandi	Narok	Trans Nzoia	Uasin Gishu	Bungoma	Busia	Kakamega	Vihiga	Total
Mining of metals ores	0	0	0	0	0	0	0	0	3
Other mining and quarrying	2	0	0	3	0	0	0	0	53
Mining support service activities	0	0	0	0	0	0	0	0	1
Manufacture of food products	12	1	5	11	6	0	4	1	824
Manufacture of beverages	0	0	0	1	0	0	0	0	60
Manufacture of tobacco products	0	0	0	0	0	0	0	0	2
Manufacture of textiles	0	0	0	4	0	0	0	0	96
Manufacture of wearing apparel	0	0	0	1	0	0	2	0	58
Manufacture of leather and related products	0	0	0	0	0	0	0	0	29
Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting ma	0	0	0	3	0	0	0	0	71
Manufacture of paper and paper products	0	0	0	1	1	0	1	0	50
Printing and reproduction of recorded media	0	0	0	1	1	0	0	0	172
Manufacture of coke and refined petroleum products	0	0	0	0	0	0	0	0	8
Manufacture of chemicals and chemical products	0	0	0	0	2	0	0	0	133
Manufacture of pharmaceuticals, medicinal chemical and botanical products	0	0	0	0	0	0	0	0	26
Manufacture of rubber and plastics products	0	0	0	1	0	0	0	0	121
Manufacture of other non-metallic mineral products	0	0	0	1	0	0	0	0	43
Manufacture of basic metals	0	0	0	0	0	0	1	0	32
Manufacture of fabricated metal products, except machinery and equipment	0	0	0	1	0	0	3	0	100
Manufacture of computer, electronic and optical products	0	0	0	0	0	0	0	0	2
Manufacture of electrical equipment	0	0	0	0	0	0	0	0	14
Manufacture of machinery and equipment n.e.c.	0	0	0	0	0	0	0	0	27
Manufacture of motor vehicles, trailers and semi- trailers	0	0	0	1	0	0	0	0	59
Manufacture of other transport equipment	0	0	0	0	0	0	0	0	4
Manufacture of furniture	0	0	0	2	0	0	2	0	70
Other manufacturing	0	0	0	1	0	0	0	0	30
Repair and installation of machinery and equipment	0	0	0	1	0	0	0	0	67
Electricity, gas, steam and air conditioning supply	0	0	0	0	0	0	0	0	16
Water collection, treatment and supply	0	1	0	1	0	1	3	5	73
Sewerage	0	0	0	0	0	0	0	0	2
Waste collection, treatment and disposal activities; materials recovery	0	0	0	0	0	0	0	0	6
Total	14	2	5	34	10	1	16	6	2252

KENYA NATIONAL BUREAU OF STATISTICS P. O. BOX 30266~00100, Nairobi, Kenya

Tel: +254~20~317583/6 Fax: +254~020~315977 Email: info@knbs.or.ke

directorgeneral@knbs.or.ke

Website: www.knbs.or.ke

ISBN: 9966 - 767 - 44 - 4