



COMPILATION GUIDE

INDUSTRIAL PRODUCTION INDEX

[BASE: AVERAGE 4 QUARTERS 2005 = 100.0]

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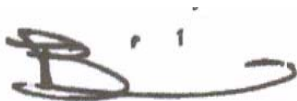
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Preface

The Compilation Guide on the Industrial Production Index (Base Average 4 Quarters 2005 = 100.0) aims to educate users of the index on how the Industrial Production Index with the Base 2005 = 100.0 is constructed by the Economic Statistics Division of the Fiji Islands Bureau of Statistics.

To all of you who have helped compile this publication, I extend to you my sincere gratitude.

Your comments and suggestions on the compilation guide will be welcomed.



T Bainimarama
Government Statistician

NOTES

1 Totals are subject to rounding errors.

2 Key to Abbreviations:

IPI	Industrial Production Index
FIBOS	Fiji Islands Bureau of Statistics
FSIC	Fiji Standard Industrial Classification
GDP	Gross Domestic Product

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1.0 Introduction

1.1 The Industrial Production Index (IPI) has been re-weighted and now has as its Base, Average 4 quarters 2005 = 100.0.

1.2 History of the previous studies done –

The IPI has been previously constructed using 1968, 1970, 1972, 1977, 1986 and 1995 as base years. The commodities selected for these base years together with their weights and indices are listed in Appendices III to VIII for all six years.

2.0 What is the IPI?

The IPI is an index aimed at reflecting change in the quantum or the physical volume of the output of the industrial sectors of the economy with respect to time.

3.0 Uses of the IPI and using the IPI

3.1 It is an important instrument for economic analysis as it provides a concise summary of past developments and aids in forecasting future trends, both of which are critical for making economic policy decisions. The IPI also forms a core component in the compilation of the Gross Domestic Product (GDP), which subsequently determines the industrial sector's contribution towards the total economy.

3.2 Using the IPI

FIBOS compiles the IPI for standard selected commodities both quarterly and annually. This enables IPI data users to study the effect of tariffs on the development of particular industries as well as gauge the progress of general industrialization in the country. Although the IPI is seen as a vital tool in economic analysis, it should be noted that there are limitations to its usage, thus proper care should be taken when interpreting IPI figures.

4.0 Methodology used for constructing the IPI

4.1 Data Collection

4.1.1 Legal Basis

The data collection for the construction of the IPI is through surveys which are conducted under the provisions of the Statistics Act 1961 (Cap71). This act protects the confidentiality of the information submitted to FIBOS by the establishments and stipulates the completion of the questionnaires as well.

4.1.2 Scope of the Survey

Index numbers of production should cover all sectors of the economy for which output data are available – agriculture, mining and quarrying, manufacturing, electricity, gas and water and construction. For agriculture only annual indices are required to reflect crop year production. Construction is often omitted because of the difficulty of measuring quantum of output in this field. Therefore FIBOS constructs IPI only for the mining and quarrying, manufacturing, electricity, gas and water industries, both on a quarterly and on an annual basis.

4.1.3 Coverage of the Survey

The Fiji Standard Industrial Classification (FSIC) 2004, which is based on the United Nations International Standard Industrial Classification Revision 3.1, is used for the purposes of classifying establishments into appropriate industrial groups. The classification has 5 levels as can be seen below in Table 1. Refer Appendix 1X for the detailed classification.

Table 1: Classification

TABULATION CATEGORY	DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
C	15				MANUFACTURE OF FOOD PRODUCTS AND BEVERAGE
		151			Production, processing and preservation of meat, fish, fruit, vegetables, oils and fats
			1511		Production, processing and preserving of meat and meat products
				15111	Production of fresh, chilled or frozen meat This sub-class includes the operation of abattoir/slaughterhouses killing, dressing or packing of meat of cattle, hogs, sheep, goats and production of fresh, chilled or frozen meat. It also includes rendering and refining of lard, and other animal fat.

In determining the commodities and as a consequence the establishments that are to be covered, information on the Value Added (VA) of each establishment is necessary. The idea is to select key representative commodities within the sub-class so that the index reflects quantum changes for a much wider range of commodities than is actually covered within that sub-class.

Identification of commodities/establishments is done using a top-down approach for each sub-class ie VA of each establishment within a sub-class was divided by the total VA of the particular sub-class and multiplied by 100.

$$\begin{array}{r} \text{Example:} \quad \text{VA of an establishment} \\ \text{-----} \quad \text{X 100} \\ \text{Total VA of the sub-class} \end{array}$$

Those establishments that were not selected, their VA got proportionately distributed to the VA of establishments in the same sub-class since they too contributed to the total VA.

Example:

Table 2: Redistribution of excluded Commodity/establishment

Description		VA F\$	Selected item
Sub-class	Commodity/ establishment		
Manufacture of paper and Paper products	Corrugated paper	726,501.10	19.7
	Tissue	393,463.20	10.7
	Paperboard	524,720.56	14.3
	Cartons	11,544.00	0.3
	Toilet paper	883,919.66	24.0
	Box files	1,094,625.74	29.7
	Record sleeves	46,722.00	1.3
Total Group		3,681,496.26	100.0

Table 2 shows the sub-class Manufacture of Paper and Paper products. It shows that commodities and as a consequence the establishments with low weights like Cartons and Record sleeves will be excluded, but its weight will be redistributed within the Group and the way it is done is to proportionately distribute its weight to all sub-groups within the sub-class –

$$\begin{array}{r} \text{Example:} \quad \text{Corrugated paper} \\ \text{-----} \quad \text{X Cartons} \\ \text{Sub-class expenditure ex Cartons} \end{array}$$

4.1.4 Frame for the Survey

In total 200 establishments got selected for the construction of the 2005 IPI base. However, every quarter a review will be done of the frame for the survey by making reference to the economic censuses of mining and quarrying, manufacturing and the electricity and water sectors and the Business Register which is kept updated on the basis of information supplied to the FIBOS by the Fiji Islands Revenue and Customs Authority, Fiji National Provident Fund, Registrar of Companies and the City and Town Councils. Reference can also be made to **Section 6 on Rolling Sample Reviews.**

4.1.5 Questionnaire Design

A common questionnaire (refer Appendix II), very simple in design, was used for the survey of the different types of production. It called for information on a monthly basis from January 2005 to December 2008 on the -

- description of commodity produced,
- the quantity produced,
- the average unit cost of producing the commodity, and
- the value of the produced commodity

A covering letter was also included to explain the purpose of the re-base and also the importance of filling out the questionnaire which was to be kept confidential. The same questionnaire will be used for the on-going IPI surveys.

4.1.6 Data Collection and Survey Procedures

One set of two questionnaires and a pre-paid envelope was posted to the establishments that were in the survey frame and they were requested to submit data on a monthly basis for the years 2005-2008.

Since a huge amount of data was requested by FIBOS, submission dates for the submission of the questionnaire was not given but a request was made to the establishments that they submit the questionnaire at their earliest. Such a stance was taken to ensure that FIBOS gets accurate data and also achieve a 100 per cent response. Telephone calls were made to follow-up on companies that did not respond after reasonable time. Personal visits too had to be made to companies who despite repeated requests did not submit the questionnaire or to those establishments that required assistance in filling out the questionnaire.

4.1.7 Data Verification

Once the questionnaires are received in the office, scrutiny and editing of the data contained in them followed. Errors and omissions if found, called for more correspondence, telephone calls or personal visits in an attempt to obtain complete and correctly filled up returns which were then placed in a file sorted by FSIC and data entered in the system. Names of all individual companies with a breakdown of all the commodities each produced were entered.

4.1.8 Data Processing

Data was processed using Microsoft Excel.

4.2 Calculating the IPI

The worksheets where data were entered were linked to the calculation sheets where the quarterly and annual indices were calculated using the following formula:

The Laspeyre's Index formula is used to compute the IPI with the base year 2005.

$$I = \frac{\sum P_0 Q_n}{\sum P_0 Q_0} \times 100$$

Where; I = Index

P_0 = Value Added per Unit of Quantity

Q_n = Current year quantity

Q_0 = Base year quantity

Out of the 71 commodities, 17 had value data so had to be adjusted by removing pure inflationary price changes in order to isolate pure volume development. Value-based commodities and the deflators used on them are given in the table below:

Table 3: Value-based commodities

FSIC	Commodities	Deflators used
15411	Bread	CPI bakery products
18101	Wearing apparel	CPI garment & footwear
21011	Paper	CPI printing & stationery
21021	Paperboard	CPI printing & stationery
21099	Paper & paperboard nec	CPI printing & stationery
22111/22199	Publishing	CPI printing & stationery
22211	Printing	CPI printing & stationery
27311	Casting of iron & steel	BMPI iron & steel
28931	General hardware	BMPI iron & steel
28999	Other fabricated metals nec	BMPI iron & steel
291/292	Machinery & equipment nec	BMPI electrical products
31101	Assembly of electric motors	BMPI electrical products
31909	Assembly of electrical machinery and apparatus	BMPI electrical products
36102	Wood furniture	CPI furniture
36101/36103	Other furniture	CPI furniture
36104	Upholstery	CPI upholstery
36911	Jewellery	CPI jewellery

4.3 Data Dissemination

The IPI is released Quarterly and also on an annual basis. An Advance Release Calendar posted on the FIBOS Website gives information on the date the IPI is going to be released. Data are disseminated via:

- *Quarterly press release*: contains tables and commentary.

-
- *Website:* The same data that is released to the media is posted to the FIBOS Website www.statsfiji.gov.fj on the first working day of every month.
 - *Key Statistics:* this is a quarterly publication of the FIBOS and includes the same table that is posted on the FIBOS website.
 - *Email:* Data is sent in Portable Document Format (PDF) on request by users.

5.0 Periodic re-basing (re-weighting) of the IPI

Like any other longstanding and important statistical series, the IPI is re-based from time to time in order to ensure it continues to be relevant to current conditions. Ideally it would be good to rebase every 3-5 years, but due to resource constraints FIBOS has not been able to do this. FIBOS plans to rebase the next IPI to 2008 which hopefully should be finalised by end 2010 or early 2011.

6.0 Rolling Sample Reviews

Rather than bundling the activity into a rebase (and until such time a rebase is done), an ongoing program of rolling reviews of each index component is done. The focus is on ensuring the sample of establishments and products remaining representative of current activity within a dynamic market. The rolling sample reviews are done by way of:

- 6.1 pro-actively monitoring the samples of establishments, to ensure they remain representative and comprehensive;
- 6.2 Selecting replacement commodities and splicing new products into the index using overlapping quantities, to ensure samples of commodities continue to be representative.

Priority is given to commodities that have

- 6.2.1 a large weight in the index,
- 6.2.2 have rapid technical change, and
- 6.2.3 that are transacted in a volatile market.

7.0 Results

Table 4 throws light on the changes in the composition of the weight from 1995 to 2005. The importance that Electricity and Sugar had in the 1995 base has dropped considerably in the 2005 base. Gold too, in 2005 has become less important than it was in 1995.

Picking up importance were commodities classified in the category “Soft drinks, cordial, syrup, mineral water and kava”, cigarettes and commodities classified in the category “Fabricated metal except machinery and equipment”. The 2005 Base also saw the inclusion of a few new commodities/industries, the major being Printing.

Table 4: Comparison of IPI Weights

FSIC	Commodities	Weights		Absolute Change
		1995	2005	
13201	Mining and Quarrying	7.4	2.6	-4.8
1511	Meat and meat products	1.3	3.9	2.6
15121	Canned fish	0.3	3.2	2.9
15131	Fruit and vegetables		1.1	1.1
15141	Edible and coconut oil	0.6	0.2	-0.4
152	Dairy products	1.3	2.4	1.1
1531	Grain mill products	1.4	2.3	0.9
15331	Animal feed		0.5	0.5
1541	Bakery products - of which:	1.2	1.7	0.5
	Bread		1.0	1.0
15421	Sugar	20.2	7.8	-12.4
15431	Sugar confectionery		1.5	1.5
15441	Starch products		0.2	0.2
15499	Other food nec		0.2	0.2
155	Beverages - of which:	4.4	10.5	6.1
	Soft drinks, cordial, syrup, mineral water and kava	4.2	10.3	6.1
	Tea & coffee	0.2	0.2	0.0
16001	Cigarettes	0.6	5.3	4.7
18101	Wearing apparel	11.6	10.1	-1.5
19	Leather products including footwear	0.9	0.9	0.0
20	Wood & products of wood - of which:	6.3	5.1	-1.2
	Saw-milling and planing of wood	4.4	3.6	-0.8
210	Paper & paper products	1.9	2.7	0.8
221	Publishing	2.9	2.1	-0.8
22211	Printing		2.8	2.8
24	Chemicals & chemical products - of which:	3.1	5.0	1.9
	Paints and varnishes	0.8	1.4	0.6
	Soaps, detergents and cleaning preparations	1.0	1.8	0.8
25	Rubber and plastic products	1.8	1.3	-0.5
26	Other non-metallic mineral products - of which:	1.9	3.3	1.4
	Concrete products	0.8	1.6	0.8
27	Basic metals	0.3	0.7	0.4
28	Fabricated metal except machinery and equipment	1.2	5.8	4.6
29	Manufacture of machinery and equipment nec		0.2	0.2
31	Assembly of electrical machinery apparatus nec		0.8	0.8
34201	Coachwork	0.2	0.2	0.0
35111	Ship building		0.6	0.6
36102	Furniture made of wood		2.9	
36104	Upholstery	4.0	0.2	-0.9
36101/3	Furniture made of any other material		0.5	0.5
369/37	Other manufacturing nec - of which:		0.7	0.7
	Jewellery		0.4	0.4
40101	Electricity	23.7	9.6	-14.1
40201	Water	1.5	1.0	-0.5



New commodities

Table 5: Annual Industrial Production Index
[Base Average 4 Quarters 2005 = 100]

FSIC	Commodities	Weights	2006	2007	2008
13201	Mining & quarrying	2.6	75.8	26.4	53.9
1511	Meat & meat products	3.9	103.5	104.7	102.9
15121	Canned fish	3.2	92.9	81.0	83.6
15131	Fruit and vegetables	1.1	100.4	100.8	101.2
15141	Edible & coconut oil	0.2	103.1	98.8	103.0
152	Dairy products	2.4	119.7	115.8	115.2
1531	Grain mill products	2.3	110.6	116.7	114.9
15331	Animal feed	0.5	104.5	90.4	106.1
1541	Bakery products- of which:	1.7	101.9	102.4	101.4
	Bread	1.0	100.4	98.3	93.1
15421	Sugar	7.8	109.6	89.6	88.0
15431	Sugar confectionery	1.5	105.0	110.2	113.5
15441	Starch products	0.2	116.2	96.3	98.3
15499	Other food nec	0.2	101.0	101.5	102.8
155	Beverages- of which:	10.5	104.8	121.5	114.2
	Soft drinks, cordial, syrup, mineral water & kava	10.3	104.0	131.3	119.4
	Tea & coffee	0.2	101.8	97.3	99.6
16001	Cigarettes	5.3	108.7	104.7	100.5
18101	Wearing apparel	10.1	87.3	92.8	87.9
19	Leather products including footwear	0.9	90.0	114.0	98.9
20	Wood & products of wood - of which:	5.1	90.1	88.2	78.3
	Saw-milling & planing of wood	3.6	95.3	94.4	83.8
210	Paper & paper products	2.7	101.3	100.5	104.6
221	Publishing	2.1	101.1	103.5	107.0
22211	Printing	2.8	98.6	94.5	98.8
24	Chemicals & chemical products - of which:	5.0	99.6	96.5	87.9
	Paints& varnishes	1.4	118.0	112.4	97.5
	Soaps, detergents & cleaning preparations	1.8	104.3	100.6	97.8
25	Rubber & plastic products	1.3	108.4	102.3	103.5
26	Other non-metallic mineral products - of which:	3.3	93.2	100.9	100.3
	Concrete products	1.6	94.2	94.2	93.9
27	Basic metals	0.7	114.8	79.7	84.7
28	Fabricated metal except machinery & equipment	5.8	118.8	102.3	84.8
29	Manufacture of machinery & equipment nec	0.2	94.4	91.2	103.4
31	Assembly of electrical machinery apparatus nec	0.8	96.7	93.8	103.2
34201	Coachwork	0.2	139.7	102.7	79.6
35111	Ship building	0.6	100.3	100.9	101.9
36102	Furniture made of wood	2.9	127.1	134.1	109.0
36101/36103	Furniture made of any other material	0.5	79.4	76.4	85.5
36104	Upholstery	0.2	90.9	84.7	72.2
369/37	Other manufacturing nec - of which:	0.7	71.5	68.5	84.6
	Jewellery	0.4	71.5	68.5	84.6
40101	Electricity	9.6	103.3	112.5	103.9
40201	Water	1.0	130.7	132.4	136.7
	All Group	100.0	102.3	101.0	97.1
	All group excluding sugar	92.2	101.6	101.9	97.9
	All group excluding gold	98.3	103.2	102.7	98.3

APPENDIX I
Concepts and Definitions

All concepts and definitions used are based upon the recommendations of the United Nations for their world Programme on Industrial Statistics. The major concepts and definitions and their treatment are briefly explained below

Gross Value Added	Value added is the difference between the gross output and the intermediate consumption. It provides a useful way of quantifying the level of value attached to a good or service after its inputs are assembled for procession and before final outputs are derived. This method also avoids duplicating the economic importance of an industry or industrial sector. The gross value added is the balancing item in the production account of SNA-93.
Weights	The weights are actually the value added which originate in different sectors of the industry. The base weight of the index is the weight that relates to the base period. Thus, the revised index base weights are the value added in different sectors of industry derived from the 2005 Census of Mining and Quarrying, Manufacturing and Electricity and Water.
Base Year Quantity (Q_0)	Base year quantity is the total average quarterly production of a commodity in a base year. For the annual index, base quantity is the total production in volume over the twelve-month period.
Establishment	An establishment can be referred to as an enterprise that engages in one or predominantly one kind of economic activity, at or from one location, for which data are available or can be meaningfully compiled, that allow the calculation of the operating surplus.
Statistical Unit	Statistical unit is the unit for which information is collected.

APPENDIX II**Sample Questionnaire**

COMPANY NAME _____

POSTAL ADDRESS _____

LOCATION _____

RE: INDUSTRIAL PRODUCTION INDEX REBASE

The Fiji Islands Bureau of Statistics (FIBOS) is currently involved in the quarterly and annual compilation of the Industrial Production Index (IPI) for a selection of commodities. The general aim of IPI is to measure the rate of change of a commodity's volume of production over time. The IPI aids in economic analysis by providing a summary of past developments, which is then used to forecast future trends and make decisions on policy matters.

The IPI also forms a core component in the compilation of the Gross Domestic Product (GDP), which subsequently determines the industrial sector's contribution towards the total economy.

In regards to the above, the FIBOS is re-basing its current IPI to 2005 and therefore seeks your assistance in this course. We would like to request that your office provide us with the relevant data required by the attached questionnaire for the period beginning 1st January 2005 to 31st December 2008.

We understand that information on the previous years may in some cases not be easily accessible or available to you, in which case we urge you to provide us with the organisations best estimates.

Data submitted will not only help the FIBOS as a compiler of the IPI but will also be of interest to other stakeholders such as the Reserve Bank of Fiji and the National Planning Office in their forecasting and policy making. The IPI will also enable you as part of an industry to see the overall economic performance of our nation.

Please be informed that all the information disclosed will be used solely for the purpose of preparing the IPI and as such will not be made available to any one outside the FIBOS. Also, any releases made using the data provided would be done in accordance with the Statistics Act 1961 (Cap 71) that also protects the confidentiality of all information submitted to FIBOS.

Your assistance in furnishing us with the required information at your earliest is greatly appreciated.

Contact person for help and advice: _____ on Ext. _____

Vinaka.

T I Bainimarama

Government Statistician

QUARTERLY PRODUCTION INDEX

Enter quantity and value of production for the three months of the inquiry quarter.
The quantity required is the amount produced or manufactured in the month.
The value required is the ex-factory value of the amount produced or manufactured and should exclude transport and other charges that are over and above the ex-factory price.

Description of Commodity	Average Unit Cost	Data required for the following months in 2005					
		JANUARY		FEBRUARY		MARCH	
		Quantity	Value (F\$)	Quantity	Value (F\$)	Quantity	Value (F\$)
TOTAL							

Description of Commodity	Average Unit Cost	APRIL		MAY		JUNE	
		Quantity	Value (F\$)	Quantity	Value (F\$)	Quantity	Value (F\$)
TOTAL							

Description of Commodity	Average Unit Cost	JULY		AUGUST		SEPTEMBER	
		Quantity	Value (F\$)	Quantity	Value (F\$)	Quantity	Value (F\$)
TOTAL							

Description of Commodity	Average Unit Cost	OCTOBER		NOVEMBER		DECEMBER	
		Quantity	Value (F\$)	Quantity	Value (F\$)	Quantity	Value (F\$)
TOTAL							

Please provide reasons if the above data for the current quarter differs significantly from the previous quarter and previous corresponding quarter.

Note: the above table to be completed was for 2005, similar tables for 2006, 2007 and 2008 followed the 2005.

Signature of person completing the questionnaire _____ Date _____

Name: _____ Position: _____

Telephone No.: _____ Fax No.: _____

THANK YOU FOR COMPLETING THE QUESTIONNAIRE

APPENDIX III

IPI with 1968 as the Base

Annual Industrial Production Index
[Base 1968 = 100.0]

Product	ISIC	Weight	Indices			
			1968	1969	1970	1971
Gold	2302	2,426	100.0	86.0	97.2	81.3
Meat	3111	700	100.0	116.7	119.7	122.2
Butter	3112	47	100.0	118.3	131.1	140.0
Coconut Oil	3115	283	100.0	117.6	100.0	105.9
Rice	3116	51	100.0	104.7	102.2	102.2
Sugar	3118	10,388	100.0	75.9	90.1	80.5
Beer	3133	436	100.0	119.1	150.2	176.5
Cigarettes	3140	724	100.0	107.3	113.1	121.1
Tobacco	3140	18	100.0	105.6	111.1	111.1
Sub Group	31	12,647	100.0	82.7	95.6	87.6
Sawmilling	3311	503	100.0	100.6	104.3	104.9
Matches	3418	81	100.0	108.4	113.7	132.6
Paints	3521	443	100.0	96.0	103.0	120.0
Soaps	3525	316	100.0	78.2	132.6	104.1
Sub Group	35	759	100.0	88.6	115.3	113.4
Cement	3698	586	100.0	108.0	118.0	154.0
Group	3	14576	100.0	84.8	97.9	93.8
All Items Index		17,002	100.0	84.9	97.8	92.0
<i>Without Sugar & Gold</i>		<i>4,188</i>	<i>100.0</i>	<i>106.8</i>	<i>117.3</i>	<i>126.9</i>

Notes:

- (i) Base of the indices is 1968. The index is weighted and the weights are the value added originating in each industry during 1968.
- (ii) For ease of comparison the index has been constructed on the basis of the Quarterly Production Indices i.e. using the same group and sub group classifications.

APPENDIX IV

IPI with 1970 as the Base

Annual Industrial Production Index
[Base 1970 = 100.0]

Product	ISIC	Weight	Indices		
			1970	1971	1972
Gold	2302	2,125	100.0	83.7	73.1
Meat	3111	257	100.0	102.1	73.4
Butter	3112	74	100.0	106.9	109.9
Ice Cream	3112	362	100.0	122.7	117.8
Coconut Oil	3115	1,098	100.0	105.9	105.9
Sugar	3118	6,456	100.0	89.3	83.9
Stockfeed	3122	279	100.0	126.8	127.6
Beer	3133	601	100.0	117.5	141.2
Soft Drinks	3134	251	100.0	130.5	150.5
Cigarettes	3140	824	100.0	104.1	92.5
Tobacco	3140	20	100.0	100.0	100.0
Sub Group	31	10,222	100.0	97.6	94.3
Sawmilling	3311	1,185	100.0	100.6	101.1
Matches	3418	100	100.0	116.7	120.4
Paper & Printing	3420	1,202	100.0	118.9	129.9
Sub Group	34	1,302	100.0	116.7	129.2
Paints	3521	332	100.0	116.5	118.4
Soaps	3525	287	100.0	78.5	93.4
Flip Flips	3558	17	100.0	128.0	160.0
Retreading	3558	135	100.0	136.4	181.8
Plastic	3560	74	100.0	337.7	714.5
Sub Group	35	845	100.0	126.4	173.1
Cement	3698	1,275	100.0	128.3	150.8
Coach Building	3843	169	100.0	143.9	156.1
Group	3	14,998	100.0	104.4	107.8
Electricity	4101	1,460	100.0	113.3	120.9
Water	4200	477	100.0	111.1	103.0
Group	4	1,937	100.0	112.8	116.5
All Items Index		19,060	100.0	103.0	104.8
<i>Excluding Gold</i>		<i>16,935</i>	<i>100.0</i>	<i>105.4</i>	<i>108.8</i>
<i>Excluding Sugar</i>		<i>12,604</i>	<i>100.0</i>	<i>110.0</i>	<i>115.5</i>
<i>Excluding Sugar & Gold</i>		<i>10,479</i>	<i>100.0</i>	<i>115.3</i>	<i>124.1</i>
<i>Excluding Sugar, Gold, Water & Electricity</i>		<i>8,542</i>	<i>100.0</i>	<i>115.9</i>	<i>125.9</i>

Notes:

- (i) The base of the index is 1970 and the weights used are value added originating in each industry during 1970. That is, the index represents approximately \$19m worth of net output in the 24 industries covered by this index during 1970.
- (ii) The individual product indices are not weighted. The Sub Group, Group, All Group Items and the last four groups of the indices are weighted.

APPENDIX V

IPI with 1972 as the Base

A. Limited Items

The IPI below was released first and later the coverage of this index was extended to include twenty-four different industrial commodities. Refer B. Extended IPI on the next page.

Annual Industrial Production Index
[Base 1972 = 100.0]

Product	ISIC	Weights	Indices			
			1973	1974	1975	1976
Gold	2302	2,426	105.3	90.8	88.2	86.8
Beef	3111	700	112.8	110.1	86.0	75.6
Butter	3112	47	86.0	97.4	101.8	105.3
Ice Cream	3115	283	88.9	100.0	83.3	94.4
Coconut Oil	3116	51	94.1	124.7	105.9	135.3
Stockfeed	3118	10,388	99.3	90.3	89.9	97.7
Beer	3133	436	117.5	147.3	154.0	158.2
Cigarettes	3140	724	112.8	122.8	131.4	147.2
Tobacco	3140	18	135.0	120.0	185.0	180.0
Sub Group	31	12,647	101.2	95.6	94.4	101.6
Sawmilling	3311	503	110.4	130.0	119.7	123.2
Matches	3418	81	116.9	113.1	106.2	94.6
Paints	3521	443	134.8	126.2	100.0	123.8
Soap	3525	316	112.3	135.1	109.4	137.7
Sub Group	35	759	125.4	129.9	103.9	129.6
Cement	3698	586	102.2	94.4	80.9	76.4
Group	3	14,576	102.9	98.6	95.3	102.7
All Items Index		17,002	103.2	97.5	94.3	100.5
<i>Without Sugar & Gold</i>		<i>4,188</i>	<i>111.8</i>	<i>119.4</i>	<i>108.6</i>	<i>115.3</i>

Notes:

- (i) The base of the index has been revised to 1972 i.e. 1972 = 100.0. The sub Group, the Group and the All Items Index are weighted and the weights are the value added originating in each industry during 1972.

B. Extended IPI

Annual Industrial Production Index
[Base 1972 = 100.0]

Product	ISIC	Weights %	Indices			
			1973	1974	1975	1976
Gold	2302	11.2	105.3	90.8	88.2	86.8
Beef	3111	3.2	112.8	110.1	86.0	75.6
Butter	3112	0.2	86.0	97.4	101.8	105.3
Ice Cream	3112	2.4	119.8	190.4	191.9	200.3
Coconut Oil	3115	1.3	88.9	100.0	83.3	94.4
Rice	3116	0.2	94.1	123.5	105.9	135.3
Sugar	3118	47.9	99.3	90.3	89.9	97.7
Stockfeed	3122	0.5	119.5	125.3	158.5	180.6
Beer	3133	2.0	117.5	147.3	154.0	158.2
Soft Drinks	3134	1.0	103.5	103.5	121.1	153.5
Cigarettes	3140	3.3	112.8	122.8	131.4	147.2
Tobacco	3140	0.1	135.0	120.0	185.0	180.0
Sub Group	31	62.1	102.1	99.6	99.0	106.9
Sawmilling	3311	2.3	110.4	130.0	119.7	123.2
Matches	3418	0.4	116.9	113.1	106.2	94.6
Paper & Printing	3418/20	6.1	111.6	130.5	156.5	148.8
Paints	3521	2.1	134.8	126.2	100.0	123.8
Soaps	3525	1.5	112.3	135.1	109.4	137.7
Flip Flops	3558	0.1	100.0	75.0	70.0	75.0
Retreading	3558	1.1	108.7	108.7	143.5	195.7
Plastic Products	3560	1.1	121.3	99.0	147.9	151.1
Sub Group	35	5.9	121.0	118.8	119.2	145.0
Cement	3698	2.7	102.2	94.4	80.9	76.4
Coach Building	3843	0.8	86.4	64.1	73.8	95.1
Group	3	80.3	104.4	103.8	104.6	112.1
Electricity	4101	6.4	113.6	116.8	126.2	138.7
Water	4200	2.1	155.7	125.1	130.1	144.4
Group	4	8.5	124.1	118.9	127.2	140.2
All Items		100.0	106.1	102.7	104.7	111.7
<i>Excluding Gold & Sugar</i>		<i>40.9</i>	<i>114.4</i>	<i>122.7</i>	<i>126.5</i>	<i>134.8</i>

Notes:

- (i) This set of indices supercedes the index of industrial production (limited items), which appears in the preceding table. The coverage of this index has been extended and it now includes twenty-four different industrial commodities.
- (ii) The base of the index remains unchanged i.e. 1972 = 100.0
- (iii) The Electricity Index includes production by F.E.A., Suva City Council, Fiji Sugar Corporation and the Tavua Power House.
- (iv) Weights of the individual items are the percentage of All Items.

APPENDIX VI

IPI with 1977 as the Base

Annual Indices of Industrial Production
[Base 1977 = 100.0]

ISIC	Product	Item Weight	Indices							
			%	1978	1979	1980	1981	1982	1983	1984
2302	Gold	2.8	56.9	60.1	50.4	62.5	92.7	81.3	98.3	121.5
3112	Butter	0.2	115.7	129.0	125.5	106.8	68.2	20.1	23.4	85.4
3112	Milk	0.1	114.4	126.1	120.3	149.0	143.0	169.8	188.1	178.0
3112	Ice Cream	1.2	106.7	106.3	111.4	116.1	82.7	78.4	78.0	71.5
3114	Canned Fish	3.4	190.5	212.5	115.4	227.6	194.8	208.6	233.2	169.9
3115	Edible Oil & Coconut Oil	1.6	91.8	94.8	95.4	95.5	101.9	105.3	103.7	84.4
3116	Milled Rice	0.7	122.3	117.3	140.7	129.3	182.4	204.9	153.1	167.1
3116	Sharps	1.8	86.8	101.5	102.6	104.2	103.5	112.8	112.4	118.8
3116	Flour	1.0	147.5	167.8	170.3	178.0	188.0	205.9	201.3	213.9
3117	Biscuit	0.8	87.6	89.6	87.2	82.6	75.8	86.6	82.0	81.0
3118	Sugar	31.4	95.9	130.7	109.4	129.8	134.3	75.6	132.6	94.2
3122	Stockfeed	0.6	112.4	117.7	137.2	121.3	101.8	132.8	104.8	108.1
3133	Beer	4.5	101.9	112.1	113.2	114.8	122.5	120.1	116.7	112.2
3134	Soft Drinks	1.2	113.1	119.7	94.0	90.9	79.5	80.2	76.8	84.0
3140	Cigarettes	1.4	102.9	104.4	102.4	105.6	106.7	99.4	108.8	108.9
3140	Tobacco	0.1	94.0	83.7	95.2	84.2	93.9	68.9	79.2	58.1
31	Sub Group	50.0	104.8	130.5	110.7	131.2	132.1	97.3	133.4	104.8
3311	Sawmilling	5.3	100.0	99.4	128.8	113.2	89.9	88.3	97.2	107.1
3311	Veneer	0.7	120.5	177.0	211.4	267.8	286.8	289.7	325.8	350.7
33	Sub Group	6.0	102.2	107.9	137.9	130.1	111.5	110.3	122.2	133.8
3418	Toilet Paper	1.2	107.4	133.4	137.5	154.6	154.5	169.1	200.8	191.8
3420	Printing	3.6	109.5	133.7	114.8	117.0	109.3	105.7	100.7	106.0
34	Sub Group	4.8	109.0	133.6	120.4	126.4	120.6	121.5	125.7	127.4
3521	Paints	0.9	111.9	113.3	118.4	117.6	120.8	153.1	119.9	151.3
3525	Soaps	1.4	113.5	129.6	130.4	121.6	135.2	146.7	157.4	133.1
3529	Matches	0.3	101.5	106.8	103.6	124.2	107.8	40.7	63.5	80.1
3558	Retreading	0.5	100.0	118.2	157.7	137.0	116.8	116.3	120.8	112.9
3560	Plastic Products	1.6	93.0	130.4	83.7	113.7	121.8	189.8	181.1	127.2
35	Sub Group	4.7	104.1	124.0	114.2	120.1	124.1	152.5	148.0	129.3
3698	Cement	5.0	110.9	111.6	105.8	117.7	112.5	140.4	125.0	119.2
3812/3818	Wire & Nail	0.3	120.2	139.2	131.5	108.9	100.1	145.1	119.6	118.8
3812/3818	Roofing Iron	0.6	109.8	130.9	113.0	132.3	144.2	187.5	129.8	174.5
3812/3818	Other Structural Metal	2.4	122.3	130.7	127.5	121.7	126.7	134.1	155.0	148.6
3843	Coachwork	0.9	113.3	140.0	164.4	126.7	48.9	113.3	68.9	53.3
38	Sub Group	4.2	118.3	133.4	134.0	123.4	109.8	137.8	129.5	128.7
3	Group	74.7	106.5	127.2	116.3	128.6	125.5	109.8	131.8	113.8
4101	Electricity	11.3	101.0	107.5	108.0	113.1	117.0	124.2	135.2	139.3
4200	Water	0.3	95.7	107.9	108.3	108.2	105.9	100.4	94.8	122.3
4	Group	11.6	100.9	107.5	108.1	113.0	116.8	123.6	134.3	138.9
2, 3 & 4	All Items	100.0	104.8	130.5	110.7	131.2	132.1	97.3	133.4	104.8
	<i>Group 3 Excl. Sugar</i>		<i>112.6</i>	<i>125.2</i>	<i>120.4</i>	<i>128.0</i>	<i>120.4</i>	<i>129.4</i>	<i>131.3</i>	<i>125.1</i>
	<i>All Items Excl. Sugar</i>		<i>108.4</i>	<i>119.5</i>	<i>115.4</i>	<i>122.8</i>	<i>118.6</i>	<i>126.4</i>	<i>130.4</i>	<i>127.3</i>
	<i>All Items Excl. Electricity & Sugar</i>		<i>109.8</i>	<i>121.9</i>	<i>116.9</i>	<i>124.7</i>	<i>119.0</i>	<i>126.9</i>	<i>129.5</i>	<i>124.9</i>

Notes:

- (i) The base of the index has been changed to 1977 = 100 and Laspeyre's (quantity) formula is used.
- (ii) (a) Gold is the only item considered in Group 2.
(b) Electricity generated by FSC for its own consumption is not included in FSIC 4101.
- (iii) The sub-group indices within group 3 are calculated using item weights for each sub-group in column 3. Group indices are calculated using census sub-group weights in column 4. The all items index is calculated using census group weights in column 4.
- (iv) The coverage in terms of Value Added is approximately 90% of the total census value added of FSIC's 2, 3 & 4.

APPENDIX VII

IPI with 1986 as the Base

Annual Indices of Industrial Production
[Base 1986 = 100.0]

FSIC	Product	Weight	Indices								
			1987	1988	1989	1990	1991	1992	1993	1994	1995
2302	Gold	5.0	100.3	149.6	147.8	144.1	96.1	129.6	132.5	120.5	121.7
3112	Butter	0.3	101.8	97.2	110.0	99.1	119.2	121.5	119.5	136.6	138.2
3112	Milk	1.1	103.6	103.5	115.4	93.2	118.6	126.3	120.0	141.7	145.7
3112	Ice Cream	0.9	119.0	150.1	163.2	156.0	126.3	127.7	142.8	150.9	142.0
3114	Canned Fish	1.6	145.3	167.4	191.4	169.3	259.8	265.7	294.9	297.4	296.8
3115	Edible oil	1.0	122.3	121.5	124.9	122.9	128.0	125.2	139.8	144.6	147.2
3115	Coconut Oil	1.7	59.6	46.6	53.9	82.2	62.1	65.4	44.1	33.3	39.2
3116	Milled Rice	1.6	100.7	62.1	66.0	65.7	88.6	100.2	112.6	100.1	114.5
3116	Sharps	1.0	98.9	91.1	82.7	66.7	62.2	45.4	33.6	27.6	22.5
3116	Flour	0.9	104.6	103.8	115.3	100.6	109.6	113.0	135.5	152.9	167.9
3117	Biscuit	2.5	115.9	105.9	106.3	103.0	94.8	92.2	33.8	86.1	89.4
3118	Sugar	14.8	79.9	72.3	91.8	81.4	77.5	85.0	88.1	103.0	90.5
3122	Stockfeed	1.0	87.7	95.5	102.9	120.6	137.8	133.6	122.7	159.6	152.7
3133	Beer	2.9	92.0	97.8	109.4	120.8	114.3	108.2	104.6	100.9	95.3
3134	Soft Drinks	1.0	99.3	113.8	135.6	180.9	210.3	235.6	264.4	230.2	238.0
3140	Cigarettes	2.4	85.9	85.9	93.1	97.9	94.8	89.2	93.2	88.9	78.0
3140	Tobacco	0.1	77.6	70.6	50.6	9.7	0.0	0.0	0.0	0.0	0.0
3141	Tea	0.3	111.4	106.0	109.8	107.5	104.5	107.1	116.9	104.0	124.7
31	Sub Group	35.1	92.6	88.4	101.5	98.3	101.3	104.8	104.2	114.0	109.1
3210	Garments	3.4	114.1	175.2	257.2	382.1	489.0	338.9	477.0	406.3	550.8
3311	Sawmilling	6.6	110.7	106.1	96.3	92.8	89.9	77.4	89.7	96.3	92.2
3311	Veneer	1.1	113.1	113.6	112.8	109.3	89.8	97.1	106.0	117.4	110.3
33	Sub Group	7.7	80.1	107.1	98.6	95.2	89.9	80.2	92.0	99.3	94.8
3418	Toilet Paper	0.7	78.1	78.9	99.4	133.6	137.0	138.4	137.6	163.4	158.4
3420	Printing	4.8	78.4	68.9	70.1	80.5	88.8	90.9	106.8	117.4	105.4
34	Sub Group	5.5	84.3	70.2	73.8	87.2	95.0	96.9	110.7	123.3	112.1
3521	Paints	1.4	107.5	92.7	95.6	114.2	122.1	133.9	145.9	137.1	123.4
3525	Soaps	2.0	92.9	114.9	93.1	96.0	102.6	100.0	101.6	105.2	102.6
3529	Matches	0.1	61.1	105.7	88.4	111.3	106.7	103.1	105.1	117.4	122.5
3558	Retreading	0.8	40.4	78.4	82.3	81.1	81.8	76.3	78.3	79.9	71.8
3560	Plastic Products	2.0	75.0	49.5	56.3	42.4	43.3	50.0	48.4	58.5	70.5
35	Sub Group	6.3	64.0	84.4	80.6	81.4	85.5	88.7	91.6	94.4	93.4
3698	Cement	5.4	78.9	47.9	62.9	84.4	85.5	91.7	86.2	101.5	98.8
3812/3818	Wire & Nail	1.0	85.2	76.9	61.2	66.2	59.5	79.7	119.3	89.4	108.7
3812/3818	Roofing Iron	1.1	53.9	66.5	68.2	110.1	102.9	136.4	131.1	120.6	105.3
3812/3818	Other Structural Metal	3.4	33.3	50.6	46.5	59.8	45.5	65.1	41.5	65.6	62.7
3843	Coachwork	0.8	62.4	42.9	85.7	119.0	138.1	204.8	209.5	252.4	252.4
38	Sub Group	6.3	86.8	56.6	57.6	77.1	69.5	97.6	90.8	102.7	101.5
3	Group	69.7	98.6	86.9	97.7	106.4	112.9	109.7	117.8	123.6	126.4
4101	Electricity	23.1	99.5	105.9	109.1	114.0	118.0	130.8	134.1	145.1	152.1
4200	Water	2.2	98.7	115.4	164.5	190.2	192.4	178.8	190.0	195.4	195.4
4	Group	25.3	90.6	106.7	113.9	120.6	124.5	134.9	139.0	149.4	155.9
2, 3 & 4	All Items	100.0	88.7	95.0	104.3	111.9	115.0	117.1	123.9	130.0	133.6
	<i>Group 3 Excl Sugar</i>	54.9	92.5	90.8	99.4	113.2	122.4	116.4	125.8	129.2	136.1
	<i>All Items Excl Sugar</i>	85.2	90.1	99.0	106.5	117.2	121.5	122.7	130.1	134.7	141.1
	<i>All Items Excl Electricity & Sugar</i>	62.1		96.4	105.6	118.4	122.8	119.7	128.6	130.8	137.0

Notes:

- (i) The base of the index has been changed to 1986 = 100 and Laspeyre's (quantity) formula is used.
- (ii) Gold is the only item considered in Group 2.
- (iii) Garments have been incorporated into the index from 1988 hence the index will not be comparable to previous years.
- (iv) Electricity generated by FSC for its own consumption is not included in FSIC 4101.
- (v) The "All Items" indices have been temporarily removed because they were compiled according to a weighting system, which is no longer valid.

APPENDIX VIII

IPI with 1995 as the Base

ANNUAL INDUSTRIAL PRODUCTION INDEX
[Base Average 4 = Quarters 1995 = 100.0]

FSIC	Product	Weight	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
2100	Gold	7.1	136.2	142.9	113.9	135.5	116.0	118.2	113.9	107.6	123.3	85.4
2201	Quarrying	0.3	125.0	103.0	97.9	109.7	122.1	89.2	106.1	89.0	106.7	189.2
21/22	Sub-Group	7.4	135.7	141.3	113.3	134.5	116.3	117.1	113.6	106.9	122.7	89.2
3111	Frozen Chicken	1.3	98.5	92.0	84.3	82.9	79.7	83.3	107.7	127.4	118.1	111.3
3112	Butter	0.2	96.5	98.0	102.9	104.9	101.1	102.0	105.1	107.3	84.3	102.7
3112	Milk (liquid)	0.3	109.0	109.5	114.8	103.8	92.2	94.9	107.2	101.2	107.3	108.7
3112	Milk (Powdered)	0.3	110.0	118.8	129.5	142.4	106.7	95.1	72.8	84.0	69.2	70.2
3112	Ice Cream	0.5	76.7	89.7	90.0	97.6	68.5	45.7	108.5	117.1	89.7	97.8
3114	Canned Fish	0.3	76.2	43.7	44.5	59.9	55.0	113.3	107.1	112.4	135.6	125.7
3115	Edible Oil	0.4	98.6	93.0	101.9	101.3	96.1	96.4	101.9	91.4	101.1	101.0
3115	Coconut Oil	0.2	103.6	115.4	117.1	134.1	100.3	131.0	144.8	91.1	106.1	124.7
3116	Milled Rice	0.4	120.8	98.9	67.9	41.6	61.7	68.8	75.8	69.8	84.7	62.9
3116	Sharps	0.1	93.5	66.0	63.0	43.7	37.4	31.5	22.9	20.5	13.5	10.4
3116	Flour	0.9	104.2	110.9	123.3	124.6	133.1	144.3	144.0	154.0	214.0	214.0
3117	Biscuit	1.2	108.5	91.0	102.9	100.4	70.5	88.4	83.9	87.2	90.1	78.3
3118	Sugar	20.2	99.8	77.3	59.5	80.0	73.8	68.3	69.8	67.8	68.4	66.9
3121	Tea	0.2	84.2	101.9	83.9	104.4	84.9	89.1	91.4	80.2	71.8	67.7
3131	Alcoholic Drinks	1.4	108.7	113.2	119.2	139.6	147.1	172.0	181.3	199.2	203.9	101.0
3132	Beer	1.7	103.2	112.3	105.3	107.9	109.2	118.2	130.1	106.0	129.1	140.2
3133	Non-alcoholic drinks	1.1	99.2	129.3	199.7	281.5	345.8	524.8	612.8	822.8	977.9	1533.7
3140	Cigarettes	0.6	100.3	105.4	93.7	101.9	90.4	88.9	96.5	95.2	103.8	99.1
31	Sub-Group	31.3	100.5	86.9	77.9	95.2	91.5	97.5	104.8	111.3	120.1	133.6
3210	Garments	11.6	124.8	208.3	267.7	284.3	272.4	347.3	301.5	254.3	315.8	128.7
3220	Footwear	0.9	132.6	124.2	117.7	90.7	56.4	66.0	101.9	268.4	349.6	329
32	Sub-Group	12.5	125.3	202.1	256.6	270.0	256.4	326.5	286.7	255.4	318.3	143.5
3311	Sawmilling	4.4	104.8	97.9	101.0	74.2	74.0	72.2	51.7	51.9	39.9	39.2
3311	Veneer	1.9	92.7	90.8	92.3	65.4	66.4	59.3	63.1	61.8	54.8	59
3320	Furniture and Upholstery	4.0	105.6	120.1	135.9	145.3	123.5	124.6	152.0	148.1	155.6	162.9
33	Sub-Group	10.3	102.9	105.3	113.2	100.6	92.1	90.4	93.2	91.5	88.1	91.5
3418	Toilet Paper	1.9	119.4	115.3	138.7	163.2	153.4	180.7	210.8	204.9	179.8	187
3420	Printing Paper	2.9	96.1	101.7	96.2	101.3	103.7	89.5	90.5	71.4	77.1	68.2
34	Sub-Group	4.8	105.2	107.0	112.9	125.6	123.2	125.4	137.8	123.8	117.4	114.8
3511	Paints	0.8	103.6	109.2	116.6	112.1	109.9	118.1	184.0	125.2	136	142.2
3512	Soaps	1.0	87.5	117.0	127.6	92.8	91.5	75.3	62.1	70.3	87.3	111.1
3519	Gas	0.6	110.0	109.1	96.7	94.6	88.5	138.7	116.2	175.6	185.9	129.7
3519	Fertilizer	0.7	105.3	117.0	137.6	172.0	91.4	140.2	152.5	154.7	164.4	153
3530	Plastic Products	1.8	87.1	68.1	69.8	68.5	62.9	48.4	80.3	89.9	97.3	112.3
35	Sub-Group	4.9	95.3	97.4	103.2	100.0	83.7	90.1	108.4	111.7	122.4	125.2
3600	Cement	1.1	91.6	105.1	98.1	107.9	94.9	108.0	112.3	109.8	123.4	156.9
3600	Concrete Products	0.8	103.8	78.1	74.9	72.9	57.8	49.3	88.1	64.3	105.7	106.6
	Sub-Group	1.9	96.8	93.6	88.2	93.0	79.1	83.1	102.0	90.5	115.8	135.5
3819	Wire	0.4	70.3	101.5	97.7	125.7	131.4	140.1	169.1	275.0	282.2	300.2
3819	Nails	0.1	86.7	95.9	85.6	75.5	57.0	76.4	83.2	169.1	235.1	239.9
3812/ 3818	Roofing Iron	0.7	112.3	120.7	119.0	86.3	70.1	76.8	83.0	85.6	129.9	117.9
3700	Other Structural Metal	0.3	94.7	77.4	87.0	150.8	92.2	70.5	112.0	142.5	205.4	198.5
3848	Coachwork	0.2	72.1	81.9	25.3	21.5	23.6	14.6	39.0	33.6	39.6	35.7
38/37	Sub-Group	1.7	96.9	116.7	108.7	97.4	93.1	94.1	116.6	155.4	195.6	192.8
3	GROUP	67.4	105.4	114.2	121.8	130.9	123.6	140.0	139.7	136.7	153.6	128.4

FSIC	Product	Weight	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
4101	Electricity	23.7	108.5	112.0	116.0	128.0	125.9	134.3	140.2	145.9	149.6	151.4
4200	Water	1.5	93.5	89.5	90.7	90.7	90.8	95.3	97.6	101.9	127.1	130.5
4	GROUP	25.2	107.5	110.7	114.5	125.9	123.9	132.1	137.7	143.3	148.3	150.2
2,3,4	All Group	100.0	108.2	115.1	119.2	129.7	123.1	136.3	137.2	136.2	150.0	130.5
	<i>All group excluding sugar</i>	<i>79.8</i>	<i>110.3</i>	<i>124.6</i>	<i>134.3</i>	<i>142.3</i>	<i>135.6</i>	<i>153.5</i>	<i>154.3</i>	<i>153.5</i>	<i>170.7</i>	<i>147.3</i>

Notes:

- (i) The base of the index has been changed to 1995 = 100 and Laspeyre's formula is used
- (ii) Electricity generated by FSC for its own consumption is included in FSIC 4101

Source: Monthly returns submitted by Producers

APPENDIX IX

FSIC Classification

Extract of mining and Quarrying, Manufacturing and Electricity and Water classification from the Fiji Standard Industrial Classification 2004

TABULATION CATEGORY C: MINING AND QUARRYING

This Tabulation Category includes all units mainly engaged in mining, quarrying and exploration on own account.

The term mining is used in the broad sense to include the extraction of minerals occurring naturally as solids such as ores or liquids such as petroleum. Extraction of mineral is undertaken by such processes as underground mining.

Bottling of natural spring and mineral waters at springs and wells is classified in sub-class 15542.

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
13	132	1320		MINING OF METAL ORE
				Mining of non-ferrous metal ores
			13201	Mining of gold and silver This sub-class includes mining of gold and silver ores
			13202	Mining of copper This sub-class includes mining of copper ores
14	141	1410		OTHER MINING AND QUARRYING
			14101	Quarrying of stone, sand and clay This sub-class includes operation of quarries producing monumental and building stone in the rough, roughly trimmed or cut by sawing or by other means typically done at the quarry. It also includes crushing and breaking stone for use as raw material for cement manufacture, or as building material, road metal or ballast. Mining of clay for the ceramic or refractory industries and operation of sand and gravel pits are included.
			14299	Mining and quarrying nec This sub-class includes mining and quarrying of minerals and other materials eg extraction of live coral, lime, salt panning etc not elsewhere classified
			14301	Exploration This sub-class includes exploration on own account undertaken for crude petroleum and mineral. Exclusions: Exploration on a fee or contract basis is included in sub-class 74211.

TABULATION CATEGORY D: MANUFACTURING

This Tabulation Category includes all units mainly engaged in manufacturing. In a broad sense manufacturing relates to the physical or chemical transformation of materials or components into new products, whether the work is performed by power driven machines or by hand, whether it is done in a factory, or in the worker's home, and whether the products are sold at wholesale or retail. Assembly of the component parts of manufactured products is considered manufacturing also.

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
15				MANUFACTURE OF FOOD PRODUCTS AND BEVERAGE
	151			Production, processing and preservation of meat, fish, fruit, vegetables, oils and fats
		1511		Production, processing and preserving of meat and meat products
			15111	Production of fresh, chilled or frozen meat This sub-class includes the operation of abattoir/slaughterhouses killing, dressing or packing of meat of cattle, hogs, sheep, goats and production of fresh, chilled or frozen meat. It also includes rendering and refining of lard, and other animal fat.
			15112	Production of fresh, chilled or frozen poultry This sub-class includes the operation of killing, dressing or packing poultry and production of fresh, chilled or frozen poultry.
			15113	Preservation and preparation of meat products This sub-class includes preservation and preparation of meat and meat products by such processes as drying, smoking, salting, immersing in brine or canning. Examples include bacon and sausage manufacturing, canning of meat etc.
		1512	15121	Processing and preserving of fish and fish products This sub-class includes preservation of fish by such processes as drying, smoking, salting, immersing in brine or canning. Production of cooked fish. Preservation of crustaceans or molluscs by freezing or by other means such as drying, smoking, salting, immersing in brine, cooking in sauces and immersing in vinegar. Production of fishmeal for animal feed is included. Exclusions: Fishing and processing of the catch aboard the fisher boats are classified in sub-class 05004.
			15131	Processing and preserving of fruit and vegetables This sub-class includes manufacture of food consisting chiefly of fruit or vegetables. Preservation of cooked or uncooked fruit or vegetables by freezing including preparation or preservation of fruit or vegetable juices. Preparation of fruit and vegetables by canning. Manufacture of jams, marmalades or jellies. Also includes pickles.
		1514	15141	Manufacture of vegetable and animal oils and fats This sub-class includes manufacture of crude vegetable or marine oils and fats, margarine, compound cooking oils or fats, blended table or salad oils, or refined or hydrated oils or fats. Exclusions: Rendering and refining of lard and other animal fats are included in sub-class 15111. Manufacture of corn oil is included in sub-class 15321.
	152	1520		Manufacture of dairy products
			15201	Milk and cream processing and packing This sub-class includes grading, filtering, chilling fresh liquid whole milk or cream, or manufacturing, bottling or cartoning pasteurised liquid whole milk, flavoured liquid whole or skim milk, liquid skim milk, liquid standardised milk, cream, sour cream, cultured buttermilk or yoghurt. Exclusions: Production of raw milk is classified in sub-class 01214
			15202	Ice-cream manufacturing

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
				This sub-class includes manufacturing of ice cream or frozen confectionery.
			15209	Manufacture of dairy product nec
				This sub-class includes manufacturing of butter, cheese, condensed, concentrated or evaporated milk, milk powder, and dairy products not elsewhere classified.
153				Manufacture of grain mill products, starches and starch products, and prepared animal feeds
		1531		Manufacture of grain mill products
			15311	Rice milling
				This sub-class includes rice milling: husked, milled, polished, glazed, parboiled or converted. Production of rice flour is included.
			15312	Flour milling
				This sub-class includes milling of flour.
			15319	Manufacture of grain mill products nec
				This sub-class includes grain milling e.g. vegetable milling e.g. leguminous vegetables; manufacture of breakfast foods obtained by roasting or swelling cereal grains or by rolling, pearling, flaking or polishing grains and manufacture of prepared, blended flour and dough for bread, cake, biscuits, pancakes etc.
				Exclusions: Flour milling is included in sub-class 15312
		1532	15321	Manufacture of starches and starch products
				This sub-class includes manufacture of starches made from maize, rice, other grains, potatoes, manioc or other vegetable materials; manufacture of glucose or glucose syrup, maltose and production of corn oil.
		1533	15331	Manufacture of prepared animal feeds
				This sub-class includes production of prepared pet food including prepared feeds chiefly for farm animals.
				Exclusions: Production of fishmeal for animal feed is included in sub-class 15121.
154				Manufacture of other food products
		1541		Manufacture of bakery products
			15411	Bread manufacturing
				This sub-class includes manufacture of all types of bread and rolls, including buns.
			15412	Cake and pastry manufacturing
				This sub-class includes manufacture of pastry, cakes, pies, tarts or other fine bakers' wares.
			15413	Biscuit manufacturing
				This sub-class includes manufacture of all types of biscuits.
		1542	15421	Manufacture of sugar
				This sub-class includes manufacture and refining of raw sugar and molasses.
		1543	15431	Manufacture of cocoa, chocolate, and sugar confectionery
				This sub-class includes manufacture of cocoa in the form of paste, powder or blocks; manufacture of chocolate or other chocolate preparations eg milo, vico and ovaltine and manufacture of sugar confectionery such as boiled sweets, caramels etc. Manufacture of chewing gum and preserving in sugar of fruit, nuts, fruit peels and other parts of plants are also included.
		1544	15441	Manufacture of macaroni, noodles, couscous and similar farinaceous/starchy products
				This sub-class includes manufacture of uncooked spaghetti, macaroni, noodles or other pasta products and couscous. Manufacture of cooked pasta products and canned or frozen pasta is also included.
		1549	15499	Manufacture of other food nec

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
				This sub-class includes other food including snack food and baby food, not elsewhere classified.
	155			Manufacture of Beverages
		1551	15511	Distilling, rectifying and blending of spirits; ethyl alcohol production from fermented materials This sub-class includes manufacture of distilled, potable, alcoholic beverages such as whiskey, brandy, gin, liquors or other alcoholic beverages containing ethyl alcohol. Production of neutral spirit is also included.
		1552	15521	Manufacture of wine This sub-class includes manufacture and blending of wine. Manufacture of other fermented but not distilled alcoholic beverages such as fermented cider or wine vinegar and mead are also included.
		1553	15531	Manufacture of malt liquors and malt This sub-class includes manufacture of malt liquors such as beer, ale, porter and stout. Manufacture of malt is also included.
		1554		Manufacture of soft drinks; production of mineral waters
			15541	Manufacture of soft drink, cordial and syrup This sub-class includes manufacture of drinks flavoured with fruit juices, syrups or other materials.
			15542	Production of mineral water This sub-class includes production, ie bottling at the source, of spa or mineral water.
			15543	Blending and packing of coffee and tea This sub-class includes blending and packing of coffee and tea.
			15544	Pounding and packing of yaqona (kava) This sub-class includes pounding and packing of yaqona.
16	160	1600	16001	MANUFACTURE OF TOBACCO PRODUCTS This sub-class includes manufacture of tobacco products such as cigarettes or cigars, pipe tobacco, chewing tobacco or snuff and homogenised or reconstituted tobacco. Exclusions: Growing and preliminary processing of tobacco leaves is included in sub-class 01115.
17				MANUFACTURE OF TEXTILES
		171	1712	17121 Spinning, weaving and finishing of textiles This sub-class includes finishing of textiles and comprises operations such as bleaching, dyeing, calendaring, napping, shrinking and printing of textiles.
		172	1729	17299 Manufacture of other textile nec This sub-class includes all activities related to textiles or textile products, not elsewhere classified eg manufacture of : <ul style="list-style-type: none"> Made-up textile articles, except apparel eg all kinds of bed, table or other household linen; stuffed articles like quilts, cushions, pouffes, pillows and sleeping bags; sails, sun-blinds, loose covers for cars, machines or furniture etc. Manufacture of hand-woven tapestry is also included. Cordage, rope, twine and cables of textile fibres, whether or not impregnated, coated, covered or sheathed with rubber or plastics. It also includes manufacture of netting of cordage, rope and twine and manufacture of products of rope or netting such as made-up nets, fishing nets, unloading cushions, loading slings, rope or cables fitted with metal slings. Exclusions: Manufacture of hairnets is included in sub-class 18101.
		173	1730	17301 Manufacture of knitted and crocheted fabrics and articles This sub-class includes activities in which products are actually knitted or crocheted whether by hand or with more or less complicated machines. Knitting and crocheting of wearing apparel and other made up articles directly to shape e.g. pullovers, cardigans, hosiery etc are included in this sub-class.

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
18				MANUFACTURE OF WEARING APPAREL
	181	1810	18101	Manufacture of wearing apparel This sub-class includes manufacture of wearing apparel. It also includes manufacture of hairnets.
19				MANUFACTURE OF FOOTWEAR AND LEATHER PRODUCTS
	191	1912	19121	Manufacture of luggage, handbags and the like, saddlery and harness This sub-class includes manufacture of luggage, handbags, saddlery and harness and other articles not elsewhere classified of leather or composition leather. Also included here is the manufacture of luggage, handbags and the like when made of other materials (mostly imitation leather) such as plastics, textile materials, vulcanised fibre or paperboard.
	192	1920	19201	Manufacture of footwear This sub-class includes manufacture of footwear for all-purpose, of any material, by any process.
20				MANUFACTURE OF WOOD AND OF PRODUCTS OF WOOD AND CORK EXCEPT FURNITURE; MANUFACTURE OF ARTICLES OF STRAW AND PLAITING MATERIALS
	201	2010	20101	Saw-milling and planing of wood This sub-class includes operation of sawmills and planing mills, whether or not mobile, in the forest or elsewhere. Also included is impregnating or chemical treatment of wood with preservatives or other materials and production of wood chips.
	202			Manufacture of products of wood, cork, straw and plaiting materials
		2021	20211	Manufacture of veneer sheets; manufacture of plywood, laminboard, particle board and other panels and boards This sub-class includes manufacture of veneer sheets, plywood, veneered panels and similar laminated wood and manufacture of particleboard and fibreboard.
		2029		Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials.
		20291		Manufacture of articles, monumental pieces and curios of wood This sub-class includes manufacture of articles, monumental pieces and curios of wood
		20299		Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials nec This sub-class includes manufacture of <ul style="list-style-type: none"> • Prefabricated buildings and builders' carpentry and joinery comprising wooden goods to be used primarily in the construction industry. The output of these activities consists of a large variety of products such as builders' carpentry, including beams, rafters, roof struts and similar goods used for structural purposes or in arch supports, scaffoldings, or other temporary supports; builders' joinery including doors, windows, shutters and their frames whether or not containing metal fitting such as hinges, locks etc., stairs, porch-work, railings etc., parquet, floor blocks, strips etc., assembled into panels; wooden beadings and mouldings, shingles and shakes and cellular wood panels, wainscot, built-in closets. Manufacture of prefabricated buildings, predominantly of wood is included. • Wooden packing cases, boxes, crates, drums and similar packing of wood; cable drum of wood, pallets, box pallets and other load boards of wood. Manufacture of barrels, vats, tubs and other coopers' products, of wood. • All other wood products, articles of cork, straw and plaiting materials eg mats and baskets not elsewhere classified Exclusion: Manufacture of wooden furniture is included in sub-class 36102.
21	210			MANUFACTURE OF PAPER AND PAPER PRODUCTS
		2101	21011	Manufacture of pulp, paper and paperboard

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
				This sub-class includes manufacture of wood pulp, cotton linters pulp, pulps of other fibrous cellulosic material and paper pulp including making pulp from waste paper. Operation of paper mills and manufacture of uncoated or machine coated paper or paperboard in rolls or sheets. Manufacture of newsprint, other printing or writing paper, stock papers intended for conversion into towels, napkins, facial tissue etc., papers used for packaging, or in cigarette manufacture. Manufacture of greaseproof, tracing or other glazed, transparent or translucent papers. Manufacture of hand made paper. Further processing of paper and paperboard producing such products as coated, covered or impregnated paper; creped or crinkled paper, composite paper or paper board.
		2102	21021	Manufacture of corrugated paper and paperboard and of containers of paper and paperboard This sub-class includes manufacture of corrugated paper or paperboard; containers of corrugated paper or paperboard; folding or set-up cartons, boxes and cases of non-corrugated paper or paperboard; sacks and bags and other packing containers including box files, record sleeves, and so forth. Exclusion: Manufacture of envelope is included in sub-class 21099.
		2109		Manufacture of other articles of paper and paperboard
			21091	Manufacture of tissue This sub-class includes manufacture of toilet paper, handkerchiefs, cleansing tissues, towels, serviettes, and other paper or paperboard or moulded paper articles found about the house e.g. trays, dishes, cups; sanitary towels and tampons, napkins and napkin liners for babies, articles of apparel and clothing accessories and other paper articles found on the person.
			21099	Manufacture of other articles of paper and paperboard nec This sub-class includes all other articles of paper and paperboard not elsewhere classified, including envelopes and folders.
22				PUBLISHING, PRINTING, AND REPRODUCTION OF RECORDED MEDIA
		221		Publishing
			2211	Publishing of books, brochures, musical books and other publications This sub-class includes publishing of books, textbooks, atlases and maps, brochures, pamphlets, musical works and other publications.
			2212	Publishing of newspapers, journals and periodicals This sub-class includes publishing of newspapers, journals and periodicals of a technical or a general content, trade journals, comics etc.
			2219	Other publishing This sub-class includes publishing of photos, engravings and postcards, timetables, forms, posters, reproduction of works of arts or other printed matters. It also includes all micropublishing and publishing of records and other recorded audio media.
		222		Printing and service activities related to printing
			2221	Printing This sub-class includes printing of newspapers, magazines, periodicals, journals, books, music pamphlets, maps, atlases, posters, playing cards, and other material for others on a fee or contract basis e.g. revenue stamps etc. Printing includes reproducing material by means of duplicating machines, computer controlled reproduction etc.
			2222	Service activities related to printing This sub-class includes bookbinding.
		223	2230	Reproduction of recorded media This sub-class includes reproduction of records, audio, video and computer tapes from master copies, reproduction of floppy, hard or compact disks, reproduction of non-customised software and film duplicating
24				MANUFACTURE OF CHEMICALS AND CHEMICAL PRODUCTS
		241	2412	Manufacture of fertilisers and nitrogen compound

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
				This sub-class includes manufacture of straight, mixed, compound or complex nitrogenous, phosphatic or potassic fertilisers. Included is manufacture of urea.
	242			Manufacture of other chemical product
		2421	24211	Manufacture of pesticides and other agro chemical products This sub-class includes manufacture of insecticides, rodenticides, fungicides, plant growth regulators, disinfectants, and other agro-chemical products not elsewhere classified. Exclusions: Manufacture of fertilisers is included in 24121
		2422	24221	Manufacture of paints, varnishes and similar coatings, printing ink and mastics This sub-class includes manufacture of paints, varnishes, enamels or lacquers, mastics, thinners, printing ink etc. Exclusions: Manufacture of dyes is included in 24111
		2423	24231	Manufacture of pharmaceuticals, medicinal chemicals and botanical products This sub-class includes manufacture of pharmaceutical preparations for human or veterinary use; surgical dressings; cements used in dentistry and chemical substance used in the manufacture of pharmaceuticals.
		2424	24241	Manufacture of soap and detergents, cleaning and polishing preparations, perfumes and toilet preparations This sub-class includes the manufacture of soaps, preparations for use as washing or cleaning, tonsorial preparations like shampoos and shaving creams etc., odoriferous preparations like perfumes, beauty or make-up preparations including manicure or pedicure preparations, preparations for oral or dental hygiene, polishes and creams for footwear, floor, coachwork, waxes, preparations for perfuming or deodorising rooms.
		2429	24299	Manufacture of other chemical product nec This sub-class includes the manufacture of: <ul style="list-style-type: none"> • Coke oven products chiefly for the production of coke or semi-coke and residual products such as coal tar etc. • Basic chemicals, industrial gases, refrigerant gases, dyes etc. • Plastics in primary forms and of synthetic rubber • Explosives, glues, material used in the finishing of textiles, writing or drawing ink etc.
25				MANUFACTURE OF RUBBER AND PLASTICS PRODUCT
	251			Manufacture of rubber products
		2511	25111	Manufacture of rubber tyres and tubes, re-treading and rebuilding of tyres This sub-class includes manufacture and retreading of vehicle tyres of rubber including tyres for equipment or mobile machinery. It also includes manufacturing of pneumatic tyres and solid for cushion tyres, tyres designed for use on the off-the-road vehicles or equipment such as aircraft or bulldozers, or on toys or furniture; inner tubes for tyres, tyre parts e.g. tyre threads and flaps. Tyre building and repairing of thread on used pneumatic tyres is also included.
		2519	25199	Manufacture of other rubber products This sub-class includes manufacture of rubber products not elsewhere classified eg rubber bands, erasures, rubber gloves, rubber hoses, rubber belts, rubber tiles etc.
	252	2520	25201	Manufacture of plastic products This sub-class includes manufacture of plastic products like hose, plastic articles like baths, washbasins, blinds, school supplies, ornamental articles, and plastic bags.
	253	2530	25301	Manufacture of PVC (Poly Vinyl Chloride) products This sub-class includes manufacture of PVC products.
26				MANUFACTURE OF OTHER NON-METALLIC MINERAL PRODUCTS

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
	261	2610	26101	Manufacture of glass and glass products This sub-class includes manufacture of glass in all its forms and articles of glass
	269	2692	26921	Manufacture of refractory ceramic ware This sub-class includes manufacture of heat-insulating ceramic products made by shaping and subsequently firing siliceous fossil meals: <ul style="list-style-type: none"> Refractory bricks, blocks, tiles and similar refractory ceramic building materials. Ceramic products that can withstand the high temperatures encountered in metallurgical operations. Refractory cements. Retorts, crucibles, muffles, nozzles, tubes, pipes etc.
		2694	26941	Manufacture of cement, lime and plaster This sub-class includes manufacture of hydraulic cements, including portland, aluminous slag and super phosphate, whether or not in the form of clinkers. Manufacture of quicklime, slaked lime and hydraulic lime. Manufacture of plasters consisting of calcined gypsum or calcium sulphate. Exclusions: Manufacture of cements used in dentistry is included in 24231
		2695	26951	Manufacture of articles of concrete, cement and plaster This sub-class includes manufacture of: <ul style="list-style-type: none"> Concrete, cement or plaster articles for use in construction, such as tiles, flagstones, bricks, boards, sheets, panels, pipes and posts. Other articles of concrete, cement or plaster e.g. flowerpots etc. Ready mix concrete or mortars. Articles of asbestos-cement
		2696	26961	Cutting, shaping and finishing of stone This sub- includes cutting, shaping and finishing of stone for use in construction, in cemeteries, on roads, as roofing and in other applications. Exclusions: Activities carried out by operators of quarries e.g. production of rough cut stone are included in sub-class 14101.
		2699	26999	Manufacture of other non-metallic mineral products nec This sub-class includes manufacture of <ul style="list-style-type: none"> Non-structural non-refractory ceramic ware comprising articles of porcelain or China, stoneware, earthenware, imitation porcelain or common pottery; tableware and other articles of a kind commonly used for domestic or toilet purposes. Manufacture of statuettes and other ornamental ceramic articles; ceramic laboratory, chemical, industrial goods or ceramics used in agriculture; ceramic sanitary fixtures and other non-structural ceramic articles and electrical insulators of ceramics. Insulating fittings, for electrical machines, appliances or equipment, of ceramics. Structural non-refractory clay and ceramic products comprising ceramic building materials such as bricks, flooring blocks, roofing tiles and chimney pots; ceramic pipes, conduits, guttering and pipe fittings; ceramic flags and paving, hearth or wall tiles, mosaic cubes and the like whether or not glazed All other non-metallic mineral products nec.
27	271	2710	27101	MANUFACTURE OF BASIC METALS This sub-class includes: <ul style="list-style-type: none"> Operation of blast furnaces, steel converters, rolling and finishing mills. Manufacture of primary iron and steel products Manufacture of the precious metals like gold and silver and their refinement.
	273			Casting of metals
		2731	27311	Casting of iron and steel

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION		
28	281	2732	27321	This sub-class includes casting finished or semi-finished products of cast iron or cast steel.		
				Casting of non-ferrous metals		
				This sub-class includes casting finished or semi-finished products of non-ferrous metals.		
				MANUFACTURE OF FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT		
				Manufacture of structural metal products, tanks, reservoirs and steam generators		
				2811	28111	Manufacture of structural metal products
				This sub-class includes manufacture of metal structures, parts of metal structures, fabricated structural steel and similar products, including bridges and bridge parts, towers, masts, columns, girders, trusses, arches, rafters, pit-head frames, telescopic props, sluice gates, piers, jetties. Manufacture of prefabricated buildings predominantly of metal is included. Manufacture of metal doors, windows and their frames, shutters, fire escapes, gates and similar metal work used on buildings. Manufacture of the articles classified here is predominantly of iron, steel or aluminium. The articles are transportable goods ready for assembly, installation or erection (e.g. at a building site by a construction establishment)		
				Exclusions: Manufacture of sections for ships or floating structures is classified in sub-class 35111.		
				2812	28121	Manufacture of tanks, reservoirs and containers of metal
				This sub-class includes manufacture of containers of metal for compressed or liquefied gas. Manufacture of central heating boilers and radiators. Manufacture of reservoirs, tanks and similar containers of types normally installed as fixtures for storage, or manufacturing use of metal, whether or not fitted with tops, closures, or lined with materials other than iron, steel or aluminium.		
Exclusions: Manufacture of casks, drums, cans, pails, boxes etc commonly used for the conveyance or packing of goods, is classified in sub-class 28999. Manufacture of reservoirs, tanks and similar containers for uses described above but fitted with mechanical or thermal equipment is classified in sub-class 29199.						
289			Manufacture of other fabricated metal products; metal working service activities			
2891	28911	Forging, pressing, stamping and roll-forming of metal				
This sub-class includes manufacture of a wide variety of finished or semi-finished metal products by forging, pressing, stamping and roll forming.						
2892	28921	Treatment and coating of metals; general mechanical engineering on a fee or contract basis				
This sub-class includes plating, polishing, engraving, printing, hardening, buffing and blasting, welding or other specialised operations on metal or metal articles on a fee or contract basis.						
2893	28931	Manufacture of cutlery, hand tools and general hardware				
This sub-class includes manufacture and repair of metal articles of use in and about the house e.g. cutlery, scissors, hair clippers, nail clippers etc; hand tools used in agriculture, horticulture or forestry; saws and saw blades; blacksmiths' tools and locks, padlocks and keys etc						
2899	28999	Manufacture of other fabricated metal products nec				
This sub-class includes manufacture of:						
<ul style="list-style-type: none"> • Metal fasteners: nails, rivets, pins, staples, screws, nuts, bolts etc • Screw machine products • Metal cable, plaited bands and similar articles made of iron, steel, aluminium or copper. • Articles made of wire: barbed wire, wire fencing etc. • Containers used for the packing or conveyance of goods: casks, drums, pails, cans, boxes etc. • Springs, including semi-finished springs for all-purpose. 						

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION			
29	291	2911	29111	<ul style="list-style-type: none"> Swords and similar arms Hollowware, dinnerware or flatware whether or not of base metal plated with precious metal; fry pans, saucepans and other metal cooking utensils. Small hand-operated kitchen appliances used in preparation, conditioning or serving of food. Metal sanitary ware, including baths, sinks, washbasins and other metal sanitary and toilet articles whether or not enamelled. Metal goods for office use. Metal safety headgear. Armoured or reinforced safes, strong boxes, strong room gates and doors and the like. Railway or tramway track fixtures or fittings. Other metal goods nec including chain, ships' propellers and blades, anchors, bells, picture frames, flexible tubing, clasps, buckles, hooks, metal scouring pads, sign plates etc. <p>Exclusions: Manufacture of metal furniture is classified in sub-class 36101</p>			
				MANUFACTURE AND REPAIR OF MACHINERY AND EQUIPMENT NEC			
				Manufacture/assembly and repair of general purpose machinery			
				Manufacture/assembly and repair of engines and turbines, except aircraft, vehicle and cycle engines			
				This sub-class includes manufacture/assembly and repair of			
				<ul style="list-style-type: none"> Reciprocating or rotary spark-ignition or compression-ignition internal combustion piston engines for use in moving or stationary applications Valves Steam turbines or other vapour turbines Hydraulic turbines, water wheels and their regulating machinery Gas turbines other than turbo jets or propellers intended for use in aircraft propulsion Boiler-turbine set or a stationary steam engine with integral boiler 			
				2912	29121	Manufacture/assembly and repair of pumps, compressors, taps and valves	
				This sub-class includes manufacture/assembly and repair of			
				<ul style="list-style-type: none"> Hydraulic power engines and motors which consist of powerful pumps Pumps for liquids whether or not fitted with measuring devices, including hand pumps and pumps designed for fitting to internal combustion piston engines, concrete pumps and others Air or vacuum pumps, air or other gas compressors Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like including pressure reducing valves and thermostatically controlled valves 			
				2914	29141	Manufacture/assembly and repair of ovens, furnaces and furnace burners	
This sub-class includes manufacture/assembly and repair of non-electric furnaces and ovens for roasting, melting or other heat treatment of ores, pyrites, non-metallic minerals metals or other materials, electric furnaces or ovens, industrial and laboratory electric induction and dielectric heating equipment, including incinerators, burners for liquid fuel and mechanical ash discharges and similar appliances.							
Exclusions: Manufacture/assembly and repair of plant and equipment designed to raise the temperature of food, beverages or tobacco is classified in sub-class 29211.							
2915	29151	Manufacture/assembly and repair of lifting and handling equipment					

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
				<p>This sub-class includes manufacture/assembly and of</p> <ul style="list-style-type: none"> • Machines for the mechanical handling of material goods or people • Pulley tackle and hoists; winches and capstans and jacks • Derricks; cranes including cable cranes; mobile lifting frames etc • Other lifting, handling, loading or unloading machinery e.g. lifts, elevators, conveyors etc
	2919		29199	<p>Manufacture/assembly and repair of other general purpose machinery</p> <p>This sub-class includes manufacture/assembly and repair of:</p> <ul style="list-style-type: none"> • Ball and roller bearings, articulated link chain and mechanical power transmission equipment of any material. • Weighing machinery e.g. scales; refrigerating or freezing equipment for commercial purposes such as display and dispensing cases; filtering or purifying machinery; equipment for projecting dispersing or spraying liquids or powders; packing and wrapping machinery e.g. for sealing, capsuling or labelling; distilling or rectifying plant; exhausts and fans and other general machinery. It also includes manufacture/assembly of reservoirs, tanks and similar containers fitted with mechanical or thermal equipment. <p>Exclusion: Manufacture/assembly of reservoirs, tanks and similar containers that are not fitted with mechanical or thermal equipment are included in sub-class 28121. Manufacture and repair of electro-magnetic clutches is classified in sub-class 31909.</p>
	292	2921	29211	<p>Manufacture/assembly and repair of special purpose machinery</p> <p>This sub-class includes manufacture/assembly and repair of:</p> <ul style="list-style-type: none"> • Agricultural and forestry machinery such as tractors used in agriculture or forestry; self-loading or self-unloading trailers; agricultural, horticultural, or forestry machinery for soil preparation, planting or fertilising the crop; harvesting or threshing machinery; milking machinery; spraying machinery for agricultural use and other machinery used in agriculture, animal husbandry, horticulture or forestry; poultry keeping machinery, equipment for preparing fodder, bee-keeping machinery etc • Machine tools for working metal or other material such as wood, stone, cork etc; machine tools for turning, drilling, milling, shaping etc; stamping or pressing; nailing, stapling or gluing etc and parts and accessories for the machine tools. • Machines and equipment for handling hot metals of a kind used in metallurgy or in metal foundries. • Machinery for mining, quarrying and construction eg lifting and handling machinery specially designed for use underground; machinery for treating minerals by sorting, separating, washing, crushing, grinding etc; track-laying tractors used in construction or mining; bulldozers and angle-dozers and their blades; pile-drivers and pile-extractors and machines used in construction not elsewhere classified. • Machinery for food, beverages and tobacco processing eg those employed by the dairy industry; grain milling industry, bakery industry; pressers, crushes and similar machinery used to make wine, cider, fruit juices or similar beverages; machine plant or equipment for treatment of food or drink by a change of temperature; machinery for the extraction or preparation of animal or fixed vegetable oils or fats and machines and equipment to process food not elsewhere classified. • Machinery for textile, apparel and leather production eg for preparing textile fibres, converting ravings into yarn; knitting machines; machines for washing, bleaching, dyeing, dressing; machines for applying paste to the base fabric; ironing machines; sewing machines to produce apparel, shoes, embroidery, luggage, headgear and sacks etc; and auxiliary machines for warp beam stands etc <p>Exclusions: Manufacture/assembly and repair of hand tools used in agriculture horticulture and forestry is included in sub-class 28931</p>
	2929		29299	<p>Manufacture/assembly and repair of other special purpose machinery</p> <p>This sub-class includes manufacture/assembly and repair of special purpose machinery not elsewhere classified e.g. machines for working rubber or plastics, machinery for pulp, paper and paperboard industry, type-setting machinery, printing machinery, book-binding</p>

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
				machinery etc
31				MANUFACTURE/ASSEMBLY AND REPAIR OF ELECTRICAL MACHINERY AND APPARATUS NEC
	311	3110	31101	Manufacture/assembly and repair of electric motors, generators and transformers This sub-class includes manufacture/assembly of alternating current DC/AC generator sets, universal AC/DC motors, electrical transformers of all sizes and types etc.
	314	3140	31401	Manufacture/assembly and repair of accumulators, primary cells and primary batteries This sub-class includes manufacture/assembly and repair of primary cells and primary batteries and electric accumulators.
	319	3190	31909	Manufacture/assembly and repair of electrical machinery and apparatus nec This sub-class includes manufacture/assembly and repair of: <ul style="list-style-type: none"> • Electrical apparatus for switching or protecting electrical circuits or for making connections to or in electrical circuits e.g. switches, fuses, voltage limiters etc; apparatus for switching or protecting electrical circuits, similar to the apparatus described above but including relays, sockets, lamp holders etc for a voltage not exceeding 1,000 volts and boards, panels, consoles, desks, cabinet and other bases equipped with two or more of the apparatus described above. • Insulated wire, cable, other insulated conductors whether or not fitted with conductors, insulated strip such as is used in large capacity machines or control equipment and optical fibre cables made up of individually sheathed fibres, whether or not assembled electric conductors or fitted with connectors. • Electric filament lamps including sealed beam lamp units, ultra violet or infra-red lamps, fluorescent hot cathode or other discharge lamps, arc lamps, lighting equipment including non-electric, flash-bulbs used in photography, illuminated signs and name plates and the like and lighting sets of a kind used for Christmas trees. • Electrical ignition or starting equipment of a kind used for spark ignition or compression-ignition internal combustion engines; ignition wiring sets of a kind used in vehicles, aircraft, ships and other machinery; electrical lighting or signalling equipment specialised for use on cycles or motor vehicles; sound signalling devices such as horns, sirens etc; wind screen wipers and electrical defrosters and demisters; dynamos or cycles; electrical signalling, safety or traffic control equipment; electromagnetic clutches, brakes etc; electrical insulators; electrical machines and apparatus not elsewhere specified; electronic engine parts and electronic equipment not elsewhere specified
32	321	3210	32101	MANUFACTURE/ASSEMBLY AND REPAIR OF RADIO, TELEVISION AND COMMUNICATION EQUIPMENT AND APPARATUS This sub-class includes the manufacture/assembly and repair of: <ul style="list-style-type: none"> • Thermionic, cold cathode or photo-cathode valves or tubes (e.g. television picture and camera tubes, image converters, microwave tubes, receivers or amplifier valves or tubes), transistors and semi-conductor circuits, electronic integrated circuits, printed circuits etc • Apparatus for radio broadcasting by means of electromagnetic waves without any line connection, relay transmitters and television transmitters for industrial use. It includes transmission apparatus for radio telephony etc, automatic and non-automatic switchboards and exchanges etc. • Television receivers, reception apparatus for radio broadcasting, magnetic tape recorders etc, turntables and cassette players etc, and microphones, loudspeakers etc
33				MANUFACTURE/ASSEMBLY AND REPAIR OF MEDICAL, PRECISION AND OPTICAL INSTRUMENTS, WATCHES AND CLOCKS
	331			Manufacture/assembly and repair of medical appliances and instruments and appliances for measuring, checking, testing, navigating and other purposes, except optical instruments

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
		3311	33111	<p>Manufacture/assembly and repair of medical and surgical equipment and orthopaedic appliances</p> <p>This sub-class includes manufacture and repair of instruments and appliances used in medical, surgical, dental or veterinary practice, apparatus used for x-rays, sterilizers, massage apparatus, orthopaedic appliance including crutches, surgical belts and trusses, artificial teeth, limbs etc and medical, surgical, dental or veterinary furniture such as the operating table etc.</p> <p>Exclusions: Corrective spectacle lenses frames and optical microscopes are included in sub-class 33201</p>
		3312	33121	<p>Manufacture/assembly and repair of instruments and appliances for measuring, checking, testing, navigating and other purposes, except industrial process control equipment</p> <p>This sub-class includes manufacture and repair of sensitive balances, mathematical calculating instruments, microscopes, apparatus for measuring and checking electrical and non-electrical quantities, automatic regulating or controlling instruments, geophysical and related instruments and appliances, supply meters for electricity, gas and water etc</p>
		3313	33131	<p>Manufacture/assembly and repair of industrial process control equipment</p> <p>This sub-class includes manufacture/assembly and repair of instruments and apparatus used for automatic continuous measurement and control of variables such as temperature, pressure etc</p>
	333	3330	33301	<p>Manufacture/assembly of watches and clocks</p> <p>This sub-class includes manufacture/assembly of watches and clocks of all kinds including cases and parts of watches and clocks.</p> <p>Exclusions: Repair of watches and clocks are included in sub-class 52601</p>
34				MANUFACTURE OF MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS
		342	3420	<p>34201 Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers</p> <p>This sub-class includes manufacture of motor vehicle bodies, trailers and semi-trailers and their parts and containers specially designed and equipped for carriage by one or more modes of transport.</p>
		343	3430	<p>34301 Manufacture of parts and accessories for motor vehicles and their engines</p> <p>This sub-class includes manufacture of parts and accessories of motor vehicles.</p>
35				MANUFACTURE AND REPAIR OF OTHER TRANSPORT EQUIPMENT
		351	3511	<p>35111 Building and repairing of ships</p> <p>This sub-class includes</p> <ul style="list-style-type: none"> • Shipbuilding and repairing and the construction and repair of floating structures as well as sections for ships or floating structures • Building and repairing of pleasure and sporting boats, repairing of yachts and other vessels for pleasure or sports, including rowing boats, canoes and inflatable boats.
		359	3599	<p>35999 Manufacture and repair of transport equipment nec</p> <p>This sub-class includes manufacture and repair of transport and transport equipment nec</p>
36				MANUFACTURE OF FURNITURE; MANUFACTURING NEC
		361	3610	<p>36100 Manufacture of furniture</p>
			36101	<p>36101 Manufacture of furniture made of metal</p> <p>This sub-class includes manufacture of metal furniture of all kinds, for any place and for any purpose.</p>
			36102	<p>36102 Manufacture of furniture made of wood</p> <p>This sub-class includes manufacture of wooden furniture of all kinds, for any place and for any purpose.</p>

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
			36103	Manufacture of furniture made of any other material. This sub-class includes manufacture of furniture of all kinds, of any material, for any place and for any purpose.
			36104	Upholstery This sub-class includes upholstery works.
	369			Manufacturing nec
		3691	36911	Manufacture of jewellery, and related articles This sub-class includes manufacture of jewellery of precious metal, of precious or semi-precious stones or combination of both, goldsmiths' articles of precious metals, parts of jewellery of goldsmiths' wares etc
		3692	36921	Manufacture of musical instruments This sub-class includes manufacture of keyboard stringed instruments, accordions or similar instruments, wood instruments, percussion musical instruments whistles etc.
		3693	36931	Manufacture of sports goods This sub-class includes manufacture of articles and equipment for gymnastics etc, hard, soft and inflatable balls, rackets etc, sports gloves etc.
		3694	36941	Manufacture of games and toys This sub-class includes manufacture of all games and toys e.g. dolls.
		3699	36999	Other manufacturing nec This sub-class includes pens and pencils of all kinds, pencil leads, date, sealing or numbering stamps, typewriter ribbons, umbrellas, cigarette lighters and smoking pipes etc, hair slides, brooms and brushes, linoleum, imitation jewellery, candles etc
37				RECYCLING
	371	3710	37101	Recycling of metal waste and scrap This sub-class includes processing of metal waste and scrap and of metal articles, which can be readily transformed into new material eg scrap iron, copper etc.
	372	3720	37201	Recycling of non-metal waste and scrap This sub-class includes processing of non-metal waste and scrap.

TABULATION CATEGORY E: ELECTRICITY, GAS AND WATER

This Tabulation Category includes all units mainly engaged in the generation, transmission or distribution of electricity; the manufacture of town gas and the storage, purification or supply of water.

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
40				ELECTRICITY AND GAS
	401	4010	40101	Production, collection and distribution of electricity This sub-class includes generation, collection, transmission and distribution of electric energy for sale to household, industrial and commercial users. Electricity production may be hydraulic, conventional, thermal, geothermal, solar, tidal etc in origin. Included are electric power plants which sell a significant amount of energy to others, as well as produce energy for their parent enterprise and which can be reported separately from other units of the parent enterprise.
	402	4020	40201	Manufacture of gas; distribution of gaseous fuels This sub-class includes manufacture of gaseous fuels. Production of gas by carbonation of coal or by mixing manufactured gas with natural gas or petroleum or other gases. Manufacture of gas made from animal and vegetable waste is included.
41	410	4100	41001	COLLECTION, PURIFICATION AND DISTRIBUTION OF WATER This sub-class includes collection, purification and distribution of water to household, industrial, commercial or other users. Exclusions: Irrigation system operation for agricultural purposes is included in 01401.

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