

ECONOMIC SURVEYS

MINING AND QUARRYING 2012

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PREFACE

The report provides information on the Mining and Quarrying industry in 2012. The information is gathered from the registered establishments engaged in a wide range of activities such as extraction of minerals and supplementary activities aimed at preparing the crude materials for marketing. It excludes information on mining and quarrying activities in the informal sector.

The important numbers presented are the macro-economic aggregates such as Gross Output, Intermediate Consumption, Value Added, Compensation of Employees, Consumption of Fixed Capital and Operating Surplus. These aggregates are combined with similar information on other industries to provide an estimate of GDP, which is a measure of our economy's size. Information made available in this report will allow us to work out the industry's contribution to the economy. Information contained in this report constitutes inputs to a national accounts system which basically provides a quantitative image of the whole economy.

Information on the mining and quarrying industry would be useful to a good number of users, for instance the;

- 1) Economist who needs to analyze the supply and demand for such activities.
- 2) Planner who uses the data to forecast the economy's performance.
- 3) Investor who wishes to have a closer look at opportunities available in the mining and quarrying economy.

The cooperation of those businesses who supplied the information presented in this report is hereby acknowledged. The Bureau of Statistics will continue to seek their support as we need to continually provide reliable statistics for evidence based planning. I also would like to thank the staffs who were engaged in the conduct of the survey and the preparation of this report.

Epeli Waqavonovono
Government Statistician

NOTES

1 The interpretation of the symbols used in this report is as follows:

0 Nil or a figure less than half the given value

2 Total values are subject to rounding errors.

3 Key to Abbreviations:

BR	Business Register
CFC	Consumption of Fixed Capital
COE	Compensation of Employees
FBoS	Fiji Bureau of Statistics
FSIC	Fiji Standard Industrial Classification
GDP	Gross Domestic Product
GFCF	Gross Fixed Capital Formation
GO	Gross Output
IC	Intermediate Consumption
IPI	Industrial Production Index
OS	Operating Surplus
SAS	Statistical Analysis System
VA	Value Added

4 VA in the report refers to Gross Value Added

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1 INTRODUCTION

1.1 History of Surveys undertaken

This report contains the results of the survey carried out for the Mining and Quarrying industry for 2012. The first economic survey of the mining and quarrying sector was done in 1969 and was combined with the study of the manufacturing and electricity sectors. Since then, the survey has been carried out annually. The results of the survey from 1969 to 1994 were published in reports titled “Census of Industries”, from 1995 to 2001 in reports titled “Census of Mining and Quarrying, Manufacturing and Electricity and Water, but from 2002, the results of the mining and quarrying industry are being produced solely on its own in Reports titled Economic Surveys: Mining and Quarrying.

1.2 Need for statistics relating to Mining and Quarrying

Mining and quarrying activities account for a substantial proportion of the total economic activity, whether in terms of the sector to the Gross Domestic Product (GDP) or in terms of its share of total employment and Gross Fixed Capital Formation (GFCF). Statistics on the mining and quarrying industry are therefore needed for the preparation of national accounts so that a meaningful study of the whole economy can be made. The data can also be used to construct the input-output table that shows the inter-connection of the mining and quarrying industry with other industries. Policy makers too require the data for formulating sound economic and social policies that augment capital formation. In addition, the establishments engaged in mining and quarrying industry find the data helpful in assessing the future direction of their business.

2 METHODOLOGY

2.1 Legal Basis

The survey was conducted under the provisions of the Statistics Act (Cap 71). This Act protects the confidentiality of the information submitted by the establishment and stipulates the completion of the questionnaire as well.

2.2 Coverage and Scope

The 2012 survey covered, other than the Central Government¹, all establishments operating in the mining and quarrying industry defined by the Fiji Standard Industrial Classification (FSIC) 2010 Section B. It is nevertheless possible that some small units not employing regular paid workers may have been omitted due to difficulties in identifying them, but the nature of such units do not affect the overall results in any significant way

The businesses in the mining and quarrying industry are predominantly engaged in extraction of minerals occurring naturally and supplementary activities (refer Appendix II on Industrial Classification Used).

¹ Mining, quarrying and exploration on own account activities undertaken by the Central Government themselves fall under the scope of the Survey carried out for General Government.

2.3 Statistical Unit

The unit of reporting was the establishment (refer Appendix I on Concepts and Definitions).

2.4 The Frame

The frame utilised to survey the establishments engaged in the mining and quarrying industry in 2012 was the list of establishments maintained by the FBoS. This list is known as the Business Register (BR), which is kept updated on the basis of information supplied to the FBoS by the Fiji Revenue and Customs Authority, Registrar of Companies and the City and Town Councils.

2.5 Questionnaire Design

A common questionnaire was used for all types of activities related to mining and quarrying. It called for information on the particulars of the establishment e.g. type of organisation; income; expenditure; stocks; assets and employment (refer Sample Questionnaire attached as Appendix IV).

2.6 Data Collection and Survey Procedures

The questionnaires were posted on 28th June, 2013 and replies were required within a month. Response by the due date was low; therefore personal visits to obtain the questionnaires were made to those establishments that did not respond and to those establishments that required assistance in filling out the questionnaires (refer Sample Questionnaire attached as Appendix IV).

Once the questionnaires were received in the office, scrutiny and editing of 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 files sorted by activity and passed on for data entry.

On completion of data entry, tables were run, data edited and analysed and reports written.

2.7 Data Processing

Data was processed by FBoS' Information Technology Business Unit using Statistical Analysis System (SAS) software.

2.8 Reference Period

The establishments contacted were to submit details for the calendar year 2012. Where the accounting year differed from the calendar year, establishments were asked to provide information for the accounting year that covered the major part of the calendar year 2012.

2.9 Non-responding Establishments

Establishments that did not respond to the survey and establishments that operated during the whole or part of the survey reference period but became untraceable during the survey enumeration period due to closure or removal, were taken as non-respondents. To account for the operations of the non-responding establishments, data were rated-up.

2.10 Rate-up Factors

Data of non-responding establishments were calculated using rate-up factors. The rate-up factors were derived by first sorting out establishments into types of business and then grouping these establishments into 6 “number of persons engaged” size groups of 1-4; 5-9; 10-19; 20- 49; 50-99 and 100+. Using number of persons engaged in each of this group, simple arithmetic means of Value Added were obtained. These arithmetic means were then multiplied by number of persons engaged in each of the non-responding group to estimate their data. The estimated figures for the non-responding units were then added to the figures of the responding units to arrive at the estimated data of the entire mining and quarrying industry.

The GFCF too has been estimated for non-response. Generally capital formation in small establishments, like the ones who have not responded in our inquiry, are low.

Empirically,

Let n_{ij} be the number of employees in group i of the j establishment of those sampled and let g_{ij} be its corresponding parameter; $i = 1$ to 6; $j = 1$ to s , where s is all sample. Then estimate,

$$\hat{G}_{(i)} = \frac{\sum_{i=1}^6 \sum_{j=1}^k g_{ij}}{\sum_{i=1}^6 \sum_{j=1}^k n_{ij}} \left(\sum_{i=1}^6 \sum_{j=1}^k n_{ij} + \sum_{i=1}^6 \sum_{j=k+1}^s n_{ij} \right)$$

where k = number responded

l = number not responded (which is $s-k$)

3 RESULTS

All data contained in this report are in Fiji Dollars and in current prices.

All tables in this report contain data inclusive of estimates for non-response; exceptions are tables 1 to 5B and 8 to 10 that contain as per survey data.

Results of sub-classes 07291, 09901, 08999 have been grouped together in order to protect the confidentiality of the information supplied by them.

3.1 The Survey Response

Table 1: The Survey Response

FSIC 2010		SURVEY FRAME	RETURNS RECEIVED	RESPONSE RATE %
SUB- CLASS	ACTIVITY			
07291	Mining of gold and silver			
09901	Support activities for other mining and quarrying			
08999	Mining and quarrying nec	12	10	83
08101	Quarrying of stone, sand and clay	16	16	100
	Total	28	26	93

3.2 Legal Status of Establishments

Table 2: Legal Status of Establishments

FSIC 2010		SOLE TRADER	PRIVATE LIMITED COMPANY	PUBLIC LIMITED COMPANY	TOTAL
SUB- CLASS	ACTIVITY				
07291	Mining of gold and silver				
09901	Support activities for other mining and quarrying				
08999	Mining and quarrying nec	2	8	0	10
08101	Quarrying of stone, sand and clay	3	11	2	16
	Total	5	19	2	26

3.3 Ownership of Establishments

Table 3: Ownership of Establishments

FSIC 2010		FIJI OWNED	BRANCH OF AN OVERSEAS COMPANY	SUBSIDIARY OF AN OVERSEAS COMPANY	TOTAL
SUB-CLASS	ACTIVITY				
07291	Mining of gold and silver				
09901	Support activities for other mining and quarrying				
08999	Mining and quarrying nec	7	0	3	10
08101	Quarrying of stone, sand and clay	16	0	0	16
	Total	23	0	3	26

3.4 Size of Establishments

Table 4: Size of Establishments

FS3IC 2010		NUMBER OF PERSONS ENGAGED						TOTAL
SUB-CLASS	ACTIVITY	1-4	5-9	10-19	20-49	50-99	100+	
07291	Mining of gold and silver							
09901	Support activities for other mining and quarrying							
08999	Mining and quarrying nec	3	3	2	1	0	1	10
08101	Quarrying of stone, sand and clay	5	4	0	7	0	0	16
	Total	8	7	2	8	0	1	26

3.5 Number of Persons Engaged as at 30 June 2012

Table 5 A: Number of Persons Engaged

FSIC 2010		WORKING WITH PAY		WORKING WITHOUT PAY		TOTAL
SUB-CLASS	ACTIVITY	Local	Expatriate	Working proprietors	Unpaid family workers	
07291	Mining of gold and silver					
09901	Support activities for other mining and quarrying					
08999	Mining and quarrying nec	1,625	43	0	0	1,668
08101	Quarrying of stone, sand and clay	401	0	0	0	401
	Total	2,026	43	0	0	2,069

Table 5 B: Number of Persons Engaged by Gender

SUB-CLASS	FSIC 2010 ACTIVITY	GENDER		
		Male	Female	Total
07291	Mining of gold and silver			
09901	Support activities for other mining and quarrying			
08999	Mining and quarrying nec	1,577	91	1,668
08101	Quarrying of stone, sand and clay	322	79	401
	Total	1,899	170	2,069

3.6 Macroeconomic Aggregates

Table 6: Macroeconomic Aggregates (\$)

FSIC 2010		GO	IC	VA	COE	CFC	OS
SUB-CLASS	ACTIVITY						
07291	Mining of gold and silver						
09901	Support activities for other mining and quarrying						
08999	Mining and quarrying nec	177,120,462	103,631,822	73,488,640	43,655,516	14,886,869	14,946,255
08101	Quarrying of stone, sand and clay	37,337,924	22,994,080	14,343,844	4,408,230	820,365	9,115,249
	Total	214,458,386	126,625,902	87,832,484	48,063,746	15,707,234	24,061,504

3.7 Gross Fixed Capital Formation

Table 7: Gross Fixed Capital Formation (\$)

FSIC 2010 SUB-CLASS	BY TYPE OF CAPITAL FORMATION							GROSS FIXED CAPITAL FORMATION
	Land development and improvement	Buildings	Exploration	Plant and machinery	Furniture, fixtures and office equipment	Transport vehicle and related equipment	Others ¹	
07291								
09901								
08999	0	0	9,516,587	12,587,901	165,000	0	0	22,269,488
08101	0	0	0	1,149,174	3,500	590,194	0	1,742,828
TOTAL	0	0	9,516,587	13,737,075	168,500	590,194	0	24,012,356

¹ Includes other type of capital formation not already mentioned.

3.8 Average Turnover per Establishment

Table 8: Average Turnover per Establishment

FSIC 2010		NUMBER OF RESPONDING ESTABLISHMENTS	TURNOVER (as per survey)	AVERAGE TURNOVER PER ESTABLISHMENT
SUB-CLASS	ACTIVITY		\$	\$
07291	Mining of gold and silver			
09901	Support activities for other mining and quarrying			
08999	Mining and quarrying nec	10	171,624,017	17,162,402
08101	Quarrying of stone, sand and clay	16	36,947,727	2,309,233
	Total	26	208,571,744	8,021,990

3.9 Average Turnover per Paid Employee

Table 9: Average Turnover per Paid Employee

FSIC 2010		TURNOVER (as per survey)	PAID EMPLOYEE (as per survey)	AVERAGE TURNOVER PER PAID EMPLOYEE
SUB-CLASS	ACTIVITY	\$	NUMBER	\$
07291	Mining of gold and silver			
09901	Support activities for other mining and quarrying			
08999	Mining and quarrying nec	171,624,017	1,668	102,892
08101	Quarrying of stone, sand and clay	36,947,727	401	92,139
	Total	208,571,744	2,069	100,808

3.10 Average Compensation of Employees per Paid Employee

Table 10: Average Compensation of Employees per Paid Employee

FSIC 2010		COMPENSATION OF EMPLOYEES (as per survey)	PAID EMPLOYEE (as per survey)	AVERAGE COMPENSATION PER PAID EMPLOYEE
SUB-CLASS	ACTIVITY	\$	NUMBER	\$
07291	Mining of gold and silver			
09901	Support activities for other mining and quarrying			
08999	Mining and quarrying nec	43,157,819	1,668	25,874
08101	Quarrying of stone, sand and clay	4,408,230	401	10,993
	Total	47,566,049	2,069	22,990

3.11 2012 Results Compared with 2011 Results

Table 11: 2012 Results Compared with 2011 Results

MACRO AGGREGATES	2011		2012		Percentage change
	\$	Aggregates expressed as % of GO	\$	Aggregates expressed as % of GO	
GO	183,155,576		214,458,386		17.09
IC	105,891,564	57.82	126,625,902	59.04	19.58
VA	77,264,012	42.18	87,832,484	40.96	13.68
COE	42,207,991	23.04	48,063,746	22.41	13.87
CFC	12,454,290	6.80	15,707,234	7.32	26.12
OS	22,601,731	12.34	24,061,504	11.22	6.45
GFCF	17,001,869		24,012,356		41.23
NUMBER OF PERSONS ENGAGED	1,464		2,069		41.33

Notes to assist interpret Table 11:

As a result of an increase in the world price of gold (refer Appendix VIII) the GO for 2012 when compared to 2011 shows an increase of 17.09 percent and also the VA shows an increase of 13.87 percent.

The OS registered a very significant increase due to an increased GO when compared to 2011.

For supplementary information on the mining and quarrying sector reference can be made to Appendix I for the Concepts and Definitions; Appendix II for the Industrial Classification Used; Appendix III on the Composition of Macroeconomic Aggregates; Appendix IV on the Sample Questionnaire; Appendix V for Production of Gold and Silver; Appendix VI and VII for the Annual Mining and Quarrying Production Index; Appendix VIII for the Average World Market Price of Gold and Appendix VIII for the Macroeconomic Aggregates 1985 – 2011.

APPENDIX I

CONCEPTS AND DEFINITIONS

All concepts and definitions used in this report 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.

<i>Compensation of Employees</i>	Includes payments, whether in cash or in kind, made by the employer during the inquiry period for the work done to all persons included in the count of employees. It includes all cash payments, commissions, bonuses, cost of living allowances and wages paid during periods of vacation and sick leave, contributions in respect of their employees' social security and pension and payments in kind.
<i>Consumption of Fixed Capital</i>	In theory this is the value of the current replacement cost of fixed assets used up during the accounting period as a result of normal wear and tear. The consumption of fixed capital shown in this report is derived from the information supplied by the firm. This is expected to conform largely to the requirements of Income Tax Act and no adjustment is attempted to bring this into conformity with the national accounts definition.
<i>Employment Size Group</i>	This includes paid employment as well as people engaged.
<i>Establishment</i>	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.
<i>Fixed Assets</i>	Fixed assets include the value of all physical assets expected to have a productive life of more than one year and intended for use by the establishment. Included are major additions, alterations and improvements to existing fixed assets that extend their normal economic life or raise their productivity.
<i>Foreign Owned</i>	Subsidiary of an overseas company is always considered foreign owned, whereas a branch of an overseas company is only considered foreign owned if 51 per cent or more of its equity is held abroad.
<i>Gross Fixed Capital Formation</i>	This is the outlay of the mining and quarrying industry on new and second-hand durable goods less their sales plus their own account capital construction work done on similar goods.
<i>Gross Output</i>	This is the gross value of all goods and services produced during the accounting period. Included here are net interests received, the value of capital construction for own account and other income.
<i>Intermediate Consumption</i>	Intermediate consumption consists of non-durable goods and services which have a lifetime of use of less than one year. Compensation of employees do not form part of intermediate consumption, but expenditure such as travelling expenses of management personnel are included. Intermediate consumption differs from total purchases of

raw materials, fuels etc. by the amount of stock changes of such goods. Valuation of intermediate consumption is at purchasers' value i.e. it is inclusive of all costs incurred by producers in the acquisition of the required goods and services.

<i>Local Owned</i>	All companies with 51 per cent or more of its equity held in Fiji are considered locally owned.
<i>Number of Employees</i>	This includes all persons who work in the establishment and receive regular pay and persons working away from the establishment when paid by and under the control of the establishment. Also included are salaried managers, and directors of incorporated businesses except when paid solely for their attendance at board of directors meetings.
<i>Operating Surplus</i>	This is the excess of value added by producers over compensation of employees, consumption of fixed capital and net indirect taxes.
<i>Payments in kind</i>	This is defined as the net cost to the employer of those goods and services furnished to employees free of charge or at markedly reduced cost that are clearly and primarily of benefit to the employees as consumers. The item includes food, beverages, clothing (except uniforms for civilians as these are not worn off-duty) and lodging etc.
<i>Statistical Unit</i>	Statistical unit is the Unit for which information is collected.
<i>Unpaid Family Workers</i>	Unpaid family workers are persons living in the household of any of the proprietors of the owning establishment and working in the establishment without regular pay for at least one third of the working time normal to the establishment.
<i>Value Added</i>	Value added is the difference between the gross output and the intermediate consumption. It provides a useful way of measuring without duplicating the economic importance of an industry or industrial sector.
<i>Working Proprietors</i>	Working proprietors are owners of establishments who are actively engaged in the work of the establishment. Excluded are silent or inactive partners.

APPENDIX II

INDUSTRIAL CLASSIFICATION USED

SECTION B: MINING AND QUARRYING from the Fiji Standard Industrial Classification 2010, commonly known as the FSIC 2010 has been used. FSIC 2010 is based on the International Standard Industrial Classification Rev 4.

MINING AND QUARRYING includes the extraction of minerals occurring naturally as solids e.g. ores, liquids e.g. petroleum or gases e.g. natural gas. Extraction can be achieved by different methods such as underground or surface mining, well operation, seabed mining etc. This section also includes supplementary activities aimed at preparing the crude materials for marketing e.g. crushing, grinding, cleaning, drying, sorting, concentrating ores, liquefaction of natural gas and agglomeration of solid fuels. These operations are often carried out by the units that extract the resource and/or others located nearby.

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
07				MINING OF METAL ORE
	072			Mining of non-ferrous metal ores
		0729		Mining of other non-ferrous metal ores
			07291	Mining of gold and silver This sub-class includes mining and preparation of gold and silver ores valued chiefly for the gold and silver content
			07292	Mining of copper This sub-class includes mining and preparation of copper ores valued chiefly for the copper content
08				OTHER MINING AND QUARRYING
	081	0810	08101	Quarrying of stone, sand and clay This sub-class includes: -quarrying, rough trimming and sawing of monumental and building stone -quarrying, crushing and breaking of limestone -mining of gypsum and anhydrite -mining of chalk and uncalcined dolomite -extraction and dredging of industrial sand, sand for construction and gravel
				-breaking and crushing of stone and gravel -quarrying of sand -mining of clays, refractory clays etc This sub- class excludes: -production of calcined dolomite, see 23942
	089	0899	08999	Mining and quarrying nec

DIVISION	GROUP	CLASS	SUB-CLASS	DESCRIPTION
				This sub-class includes all other mining and quarrying e.g. salt etc not elsewhere classified
09				MINING SUPPORT SERVICE ACTIVITIES
	099	0990	09901	<p>Support activities for other mining and quarrying</p> <p>This sub-class includes support services on a fee or contract basis, required for mining activities of divisions 07 and 08:</p> <ul style="list-style-type: none"> -exploration services, e.g. traditional prospecting methods, such as taking core samples and making geological observations at prospective sites -draining and pumping services, on a fee or contract basis -test drilling and test hole boring <p>This sub-class excludes:</p> <ul style="list-style-type: none"> -operating mines or quarries on a contract or fee basis, see division 07 or 08 -specialized repair of mining machinery, see 33121 -geophysical surveying services, on a contract or fee basis, see 71101

APPENDIX III

COMPOSITION OF MACROECONOMIC AGGREGATES 2012

	SUB-CLASS		GRAND TOTAL
	072	081	
	07291/09901/08999	08101	
INCOME³			
Primary Activity	176,636,462	37,239,144	213,875,606
Sales	174,478,982	36,947,727	211,426,709
Work in Progress	1,757,480	138,557	1,896,037
Closing stock	9,990,750	539,117	10,529,867
Less opening stock	8,233,270	400,560	8,633,830
Finished goods produced by the establishments	400,000	152,860	552,860
Closing stock	400,000	753,160	1,153,160
Less opening stock	0	600,300	600,300
Secondary Activity	484,000	98,780	582,780
Value of electricity sold	0	0	0
Rent received for hire of building, plant & machinery	0	0	0
Receipts from transport and related services	0	0	0
Gold hedging	0	0	0
Others	484,000	98,780	582,780
Gross Output	177,120,462	37,337,924	214,458,386
Miscellaneous Income	3,965,613	85,219	4,050,832
Casualty insurance	0	0	0
Profit or loss received from any other business	0	0	0
Property income received	35,000	35,219	70,219
Rent received from land	0	0	0
Interest received	35,000	35,219	70,219
Dividends received	0	0	0
Royalty received	0	0	0
Bad & doubtful debts recovered	0	0	0
Exchange gain	0	0	0
Gain on sales of fixed assets	76,000	50,000	126,000
VAT charged on goods and services provided	3,854,613	0	3,854,613
TOTAL INCOME	181,086,075	37,423,143	218,509,218

³ The price gold fetches is based on the world market price, but the grade of the ore mined has an impact on the price as well. The reader is therefore advised to view cautiously Appendices III, IV, V and VI.

	SUB-CLASS		GRAND TOTAL
	072	081	
	07291/09901/08999	08101	
EXPENDITURE			
Expenditure on raw materials	62,762,373	8,081,727	70,844,100
Materials, fuel & supplies	3,127,750	0	3,127,750
Opening stock	7,378,250	0	7,378,250
Less closing stock	4,250,500	0	4,250,500
Expenditure incurred on fuel, electricity & water	30,740,768	9,295,207	40,035,975
Repairs & maintenance on motor vehicles, buildings and plant and machinery	816,782	3,131,157	3,947,939
Cartage & haulage paid to other firms	1,438,782	372,675	1,811,457
Travel expenses	2,072,452	42,189	2,114,641
Audit, accounting & legal fee	217,196	52,420	269,616
Advertising & promotion	3,907	51,867	55,774
Bank charges	72,753	192,415	265,168
Postage and telecommunications	367,323	128,646	495,969
Office stationary & supplies	129,446	64,309	193,755
Rent paid for furniture, building, plant & equipment	43,816	31,001	74,817
Management & consultation fees	1,621,482	572,316	2,193,798
Business insurance	42,961	422,959	465,920
Other expenditure	174,031	555,192	729,223
Intermediate Input	103,631,822	22,994,080	126,625,902
Miscellaneous Expenditure	2,816,631	1,777,434	4,594,065
Casualty insurance	13,749	0	13,749
Property income paid	149,760	1,638,162	1,787,922
Rent paid for land	7,960	1,086,722	1,094,682
Interest paid	141,800	232,825	374,625
Dividend paid	0	0	0
Royalty paid	0	318,615	318,615
Bad & doubtful debts written off	134	0	134
Business licenses, rates on property paid to central or local government	79,743	5,942	85,685
TPAF levy	8,872	86,380	95,252
Exchange losses	396,000	0	396,000
Loss on sale of fixed assets	0	1,950	1,950
VAT paid on supplies of goods and services	2,168,373	45,000	2,213,373

	SUB-CLASS		GRAND TOTAL
	072	081	
	07291/09901/08999	08101	
<i>Compensation of Employees</i>	43,655,516	4,408,230	48,063,746
Wages & Salaries	39,248,276	4,076,547	43,324,823
FNPF	3,176,790	326,124	3,502,914
Payments in kind	1,230,450	5,559	1,236,009
<i>Consumption of Fixed Capital</i>	14,886,869	820,365	15,707,234
TOTAL EXPENDITURE	164,990,838	30,000,109	194,990,947

APPENDIX IV SAMPLE QUESTIONNAIRE



Ratu Sukuna House, MacArthur Street, Victoria Parade, Suva

P O Box 2221
Government Buildings
Suva
FIJI

Telephone: [679] 331 5822
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Website: www.statsfiji.gov.fj

CONFIDENTIAL

DESPATCHED: 28/06/2013

2012 CENSUS OF MINING AND QUARRYING

Tax Identification Number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Please correct any errors appearing in this label.

Dear Sir\Madam,

Enclosed are two copies of the 2012 Census of Mining and Quarrying questionnaire.

COVERAGE AND SCOPE: It covers all establishments engaged in the Mining and Quarrying sector classified under the Fiji Standard Industrial Classification 2010's Section B (refer note on page 2). If an establishment's Mining and Quarrying activities are combined with other types of businesses, you should report on the Mining and Quarrying side of the operations only.

PURPOSE: The census provides an important means of assessing the contribution this sector makes to the economy of Fiji. The results of the Census is used by the Fiji Bureau of Statistics to estimate the National Income of Fiji and in the provision of other key indicators.

REFERENCE PERIOD: Reference period is the calendar year 2012. If your accounting year is different provide information approximating closest to the calendar year 2012. Limited liability companies are requested to submit a copy of their financial statements with the questionnaire.

COMPULSORY REQUIREMENT: The Census is conducted under the provisions of the Statistics Act 1961(Cap 71). In accordance with Section 8 subsection 2 of this Act you are required to fill in one copy of the questionnaire and return it to the undersigned on or before 31/07/13. Failure to meet this deadline could result in legal action without further notice.

CONFIDENTIALITY OF INFORMATION: Information supplied will be used by the department for the preparation of statistics. Any release of information will be in accordance with the Statistics Act and only persons authorised will have access to individual information.

CONTACT PERSON FOR HELP AND ADVICE: Ms Sammi Prakash on extension 120 or email sprakash@statsfiji.gov.fj

Epeli Waqavonovono
Government Statistician

NOTE: Under the Fiji Standard Industrial Classification 2010's Section B, Mining and Quarrying are predominantly engaged in extraction of minerals occurring naturally and supplementary activities.

ORGANISATIONAL STRUCTURE

- 1 A business can have more than one establishment involved in similar or different activities at different locations. State the location, the type of activity engaged in and the Gross Turnover of each establishment during the year.

FORM OF OWNERSHIP

- 4 (1) Fiji owned:
This is an establishment operating in Fiji in which 51% or more equity is held locally.
- (2) Branch of an overseas company:
This is an establishment operating in Fiji which is controlled by or supervised by an overseas head office and which is an integral part of the foreign parent organisation. Branch has no equity share capital.
- (3) Subsidiary of an overseas company:
A company is a subsidiary of another if that other company owns this subsidiary wholly or holds more than half the nominal value of the equity share capital of this subsidiary company.

EQUITY PARTICIPATION

- 5 Give the proportion of the share capital held by residents of Fiji. Equity share capital held by companies or individuals on behalf of residents of Fiji should also be included.

NATURE OF WORK

- 6 In cases where establishments are involved in more than one activity at a single location, please state the major activity involved in.

OPERATING STATUS

- 7 If you are no longer in business, a **STATUTORY DECLARATION** must be attached to one copy of the questionnaire with the words "**CLOSED BUSINESS**" written across the questionnaire and returned to the Fiji Bureau of Statistics. The Statutory Declaration must be signed by a Magistrate or a Barrister\Solicitor, Justice of Peace or a member of the Notary Public acting on your behalf. The Statutory Declaration must state the name of the business, nature of its activity and the date on which it ceased operation. If your business operated for part of the year 2012 please provide information for the duration your business operated.

SALES AND OTHER INCOME DERIVED DURING THE ACCOUNTING YEAR

8 This refers to the sale of goods produced by the establishment. The value should be the actual selling value, net of any discount or rebate allowed to the buyer.

Include: (i) Sales of waste products, residues etc.
(ii) Excise dues should be included as part of the value of sales in the local market.

Exclude VAT charged on goods and services provided.

Do not include: Goods bought for resale in the same condition as purchased.

Local market sales: Exclude sales to local exporters for exports which should be shown as exports.

Export: Include direct export sales to overseas importers and sales to local exporters for export.

Please supply both the quantity and value of the goods produced by the establishment.

OTHER INCOME

10 a] Include all claims arising from business insurance. Examples of business insurance are insurance against the risk of buildings, properties and stocks. Exclude life, education or any other personal insurance.

b] Include all claims received arising from casualty insurance. Examples of casualty insurance are insurance against the risk of accidents and illness etc to employees. Claims for life, education or any other form of personal insurance are to be excluded.

12 Include rent received for building, plant and machinery, furniture and fixtures, transport vehicles and related equipment. Exclude rent received for land which should be included in question 13a].

17 This is the resale value of goods bought, the goods being in the same condition as received and having undergone no intervening manufacturing process by your establishment.

18 State the total sales, if any, of electricity produced by your establishment.

SALES AND OTHER INCOME DERIVED DURING THE ACCOUNTING YEAR

8	Please state the sales value of goods produced by your establishment.					
	DESCRIPTION OF PRODUCT	LOCAL MARKET SALES		EXPORT		TOTAL SALES
		QUANTITY AND UNITS (1)	VALUE (\$) (2)	QUANTITY AND UNITS (3)	VALUE (\$) (4)	VALUE (\$) (5)
		004				
		009				
		014				
		019				
		024				
	Total sales	029				

OTHER INCOME

		VALUE (\$)
9	Subsidies and grants received	032
10	Insurance claims received: a) Business insurance claims received	033
	b) Casualty insurance claims received	034
11	Profit or loss received from any other business in which you have an interest	035
12	Rent received for the hire of building, plant and machinery, furniture and fixtures, transport vehicles and related equipment	036
13	Income from: a) Rent received from land	037
	b) Interest received	038
	c) Dividends received	039
	d) Royalty received	040
14	Bad and doubtful debts recovered	041
15	Exchange gain	042
16	Gain on sale of fixed assets	043
17	Sales of goods not manufactured by your own establishment (see question 49)	044
18	Value of electricity sold	045
19	Receipts from industrial services rendered to others:	
	a) Plant and equipment hire	046
	b) Repairs and maintenance to: i) Plant, machinery and equipment	047
	ii) Others	048
	c) Transport and related services	049
20	Gold Hedging	050
21	Others (specify).	051

	Total other income (Codes 032 - 051)	052

22	VAT charged on goods and services provided	053	
----	--	-----	--

23	GRAND TOTAL OF ALL INCOME RECEIVED (Codes 031 + 052 + 053)	054	\$
----	--	-----	----

PURCHASES OF MATERIALS AND OPERATING EXPENDITURE

- 24 State in detail the total value and quantity of all purchases of material and supplies during the year for use in the production process. In arriving at the value, deduct trade discounts received. The cost of transport should also be excluded unless it is accounted as part of the purchase price. Direct import by establishments should be reported at cost. Exclude any transport cost paid to outside firms which should be included in question 34.

Include all purchases of : a] Basic materials, components, semi-manufactured goods and so on that are physically incorporated in the products of the establishment.

b] Auxiliary materials such as lubricants, packaging materials, small tools, parts, materials for repair and maintenance.

c] Materials for producing machinery or other capital items for own use.

d] Materials bought for carrying "own construction" work reported in question 64.

Exclude all purchases of: Machinery and plant and other capital equipment purchased by you which should be included in question 64.

Exclude VAT paid on supplies of goods and services.

FUEL, ELECTRICITY AND WATER

- 25-28 Expenditure on fuel represents the total value of fuel purchased by your establishment for use in the production of heat, power or electricity including gasoline and other fuels for vehicles. Exclude those that enter directly into the production process as they should be reported as raw materials.

- 29-30 State the total value of electricity and water purchased by your establishment for the production process.

OTHER EXPENDITURE

- 32 Repairs and maintenance costs paid to other firms covers the total costs of current repair and maintenance service provided by such firms on repairs done on vehicles, building, machinery and equipment of the establishment. Current repair and maintenance carried out by other establishments or by ancillary repair and maintenance unit which has been treated as an independent establishment should be included.

- 34 Cartage and haulage expense includes payment for the transportation of goods and materials within the country. It excludes cost of transport carried out by your own equipment and employees.

- 36 Contract and commission work done by other establishments on your materials covers payments made by the establishment for contract and commission work done on materials controlled by your establishment.

- 43 a] Include payment in respect of leased/rented land. If it is not possible to separate payments made for land from building, please include expenditure in question 42.

b] Include interest on long-term debts and interest on all borrowing.

PURCHASES OF MATERIALS AND OPERATING EXPENDITURE

Please state the value of all materials and supplies purchased during the year for use in the production process									
					VALUE (\$)				
					IMPORTED		LOCALLY PRODUCED		
					PURCHASED		PURCHASED		
	DESCRIPTION OF MATERIALS AND SUPPLIES		UNIT of Qty (1)	QTY (2)	FROM ABROAD (3)	LOCALLY (4)	FROM MANUF (5)	FROM OTHER S (6)	TOTAL (7)
24		055							
		062							
		069							
		076							
		083							
	Total	090							

FUEL, ELECTRICITY AND WATER

Please state the expenditure incurred on fuel, electricity and water			VALUE (\$)
25	Petrol/Automotive diesel fuel		095
25	Industrial diesel fuel/Heavy fuel oil		096
27	Kerosene		097
28	Liquid petroleum gas		098
29	Electricity		099
30	Water		100
	Total (Codes 095 to 100)		101

OTHER EXPENDITURE

			VALUE (\$)
31	Donations made		102
32	Repairs and maintenance costs on:	a) Motor vehicles	103
		b) Building	104
		c) Machinery and equipment	105
33	Value of exploration costs incurred		106
34	Cartage and haulage expenses paid to other firms		107
35	Travel expenses (eg management, personal etc)		108
36	Value of contract and commission work done		109
37	Audit, accounting and legal fee		110
38	Advertising and promotion etc		111
39	Bank charges		112
40	Postage, telephone and telecommunication etc		113
41	Office stationery and supplies		114
42	Rent paid for furniture, building, plant and machinery etc		115
43	Expenditure on:	a) Rent paid for land	116
		b) Interest paid	117
		c) Dividends paid	118
		d) Royalty paid	119
44	Management and consultation fee		120
45	Bad and doubtful debts written off		121
46	Business licenses, rates on property paid to central or local government etc		122
47	Insurance paid:	a) Business insurance	123
		b) Casualty insurance	124
48	Fiji National university [FNU] Levy		125
49	Exchange losses		126
50	Fixed asset expenses:	a) Loss on sale of fixed assets	127
		b) Depreciation claimed (to agree with question 64(7))	128
51	Cost of goods purchased for resale (see question 17)		129
52	All other costs and expenses		130
	Total other expenditure (Codes 102 to 130 excluding 118)		131

EMPLOYMENT AND COMPENSATION OF EMPLOYEES

- 53 Please note that the information in respect of employment is for the last pay week in June 2012 but the rest of the question requires data for the appropriate accounting year.

Gross wages and salaries includes overtime, sick and holiday pay, bonuses, payments under piece rate schemes, all allowances, severance and redundancy pay, sales commissions paid to own employees and directors fee etc.

Payment in kind is the cost to the employer for providing employees with housing, transport, clothing, food, drinks, fuels, etc free of charge or at a reduced rate.

Operatives includes all employees directly engaged in the activity of the establishment, eg those in fabrication, processing, assembling, shop messengers, warehouse men, packers and repair men etc. Casual workers should also be included here.

Others includes administrators, technical\clerical personnel, eg managers, clerks etc.

Expatriates are non-Fiji citizens who stayed in Fiji.

Working proprietors include all individual proprietors and partners who are actively engaged in the work of the establishment. Silent or inactive partners should be excluded unless they participate actively in the work of the establishment.

Unpaid family workers include persons living in the household of any of the proprietors of the owning establishment and working in the establishment without regular pay for at least a third of the normal working hours of the establishment.

STOCKS

- 57 Work-in-progress consists of unfinished output at the end of the reference year.
- 58 Finished goods bought for resale are stocks of goods bought for resale in the same condition as purchased.
- 57 The value of materials, fuel supplies and components are stocks of raw materials not used up in the production process.

NET EARNINGS AND TAXES PAID

- 59 This is the net profit of your establishment\enterprise from the profit and loss account. The following method would enable you to check if all the information from the trading, profit and loss account have been entered onto the questionnaire:

	Income [Code 054 + 163 (3)]	\$
less	Expenditure [Code 150]	\$
equals	Profit (+)\Loss (-) [Code 166]	\$

EMPLOYMENT AND COMPENSATION OF EMPLOYEES

53		NUMBER EMPLOYED	GROSS WAGES AND SALARIES PAID	EMPLOYER'S CONTRIBUTION TO FNPFC ETC	PAYMENT IN KIND
		(1)	(2)	(3)	(4)
a)	Fiji citizens	132			
b)	Expatriates	136			
	Total	140			
c)	Working without pay				
	i) Working proprietors	144			
	ii) Unpaid family workers	145			
	Total (Codes 140 (1) + 144 + 145)	146			
d)	From the total number in employment given in code 146, please state:				
	Total Males	147	Total Females	148	

54	VAT paid on supplies of goods and services	149	
----	--	-----	--

55	GRAND TOTAL OF ALL EXPENDITURE INCURRED [Codes 094+101+131+141+142+143 + 149	150	\$
-----------	---	------------	-----------

STOCKS

		VALUE OF STOCKS (\$)		
		OPENING	CLOSING	CHANGE
		(1)	(2)	(2)-(1)=(3)
56	Finished goods produced by the establishment and intended for sale	151		
57	Work-in-progress	154		
58	Finished goods bought for resale	157		
59	Materials, fuels, supplies and components	160		
	Total	163		

NET EARNINGS AND TAXES PAID

			Amount (\$)
60	Net profit/loss of your establishment/enterprise. If this does not agree with question 59, please give reasons_____	166	
61	Taxable income of your establishment/enterprise	167	
62	Amount, if any, of previous year losses that was deducted before arriving at the taxable income	168	
63	Amount of Fiji Income Tax paid/payable by your establishment/enterprise.	169	

FIXED CAPITAL ASSETS

64 Please ensure that:

The value given for depreciation should agree with the value given in question 50 [b].

64 (5) This is the cost of new fixed assets and additions to the existing fixed assets made by the establishments own labour for its own use. Cost should be equivalent to labour costs plus value of materials at cost.

FIXED CAPITAL ASSETS

64			VALUE (\$)							
			Opening book value (1)	Purchase of new and second hand assets at cost		Land Development & Improvement (4)	Own Account Capital const (5)	Sales of Capital assets (6)	Depreciation (7)	Closing Book value (8)
				Locally (2)	from abroad (3)					
a]	Land	170								
b]	Non- residential Buildings	178								
	Residential Buildings	186								
c]	Plant and machinery	194								
d]	Furniture, fixtures and office equipment	202								
	ICT equipment	210								
	Other office equipment	218								
e]	Transport Vehicles and related equipment	226								
f]	Research & Development	234								
g]	Mineral Exploration & Evaluation	242								
h]	Valuables (Antiques, Artistic Originals Precious Metals, etc)	250								
i]	Others (specify)	258								
	Total	266								

Signature of person completing the questionnaire: _____ Date _____

Name _____

Position _____

Telephone No _____ Fax No _____

E-mail _____

If Chartered Account in private practice, please place a tick in the box

THANK YOU FOR COMPLETING THE QUESTIONNAIRE

APPENDIX V

PRODUCTION¹ OF GOLD AND SILVER

Period	Gold [Kg]	Silver [Kg]	Period	Gold [Kg]	Silver [Kg]	Period	Gold [Kg]	Silver [Kg]
1970	3,235	na	1971	2,582	na	1972	2,364	na
1973	2,488	na	1974	2,146	na	1975	2,138	na
1976	2,046	na	1977	1,535	na	1978	873	na
1979	923	na	1980	774	208	1981	959	261
1982	1,423	576	1983	1,248	405	1984	1,509	473
1985	1,865	459	1986	2,856	774	1987	2,864	841
1988	4,272	988	1989	4,221	1,055	1990	4,116	779
1991	2,743	477	1992	3,701	1,258	1993	3,784	1,112
1994	3,535	1,498	1995	3,496	2,083	1996	4,452	1,882
1997	4,671	2,594	1998	3,722	1,745	1999	4,429	2,125
2000	3,794	1,462	2001	3,865	1,934	2002	3,726	1,903
2003	3,517	1,247	2004	4,033	1,523	2005	2,793	1,418
2006	1,403	494	2007	29	0	2008	700	265
2009	1,091	313	2010	1,903	328	2011	1,570	418
2012	1,437	342						

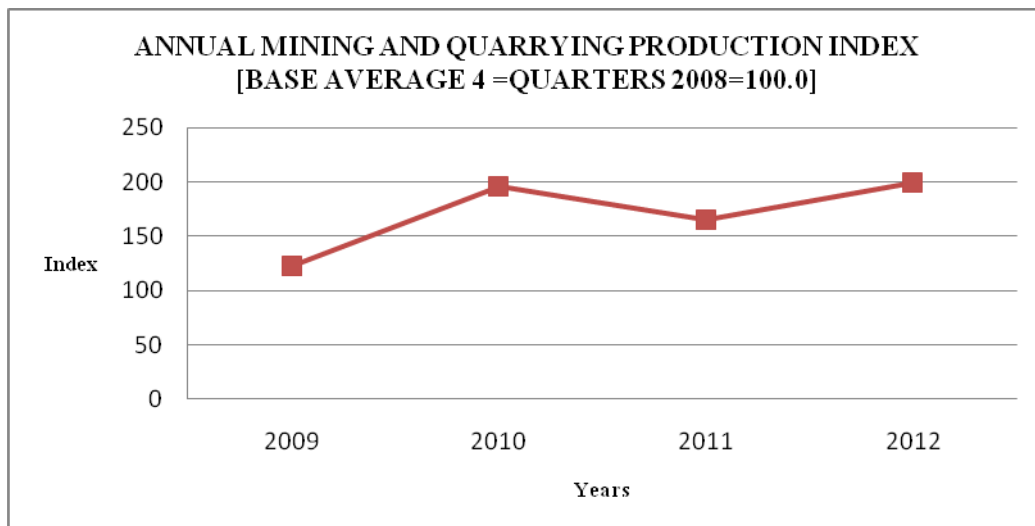


¹ Production data is based on calendar year; whereas the Macroeconomic aggregates are based on financial year data since it is not possible to split financial data by calendar year (refer 2.8 on Reference Period).

APPENDIX VI

ANNUAL MINING AND QUARRYING PRODUCTION INDEX¹ [Base Average 4 = Quarters 2008 = 100.0]

Division	Commodity	Weight	YEARS			
			2009	2010	2011	2012
13/14	Mining & Quarrying	3.0	122.8	195.6	165.1	199.1



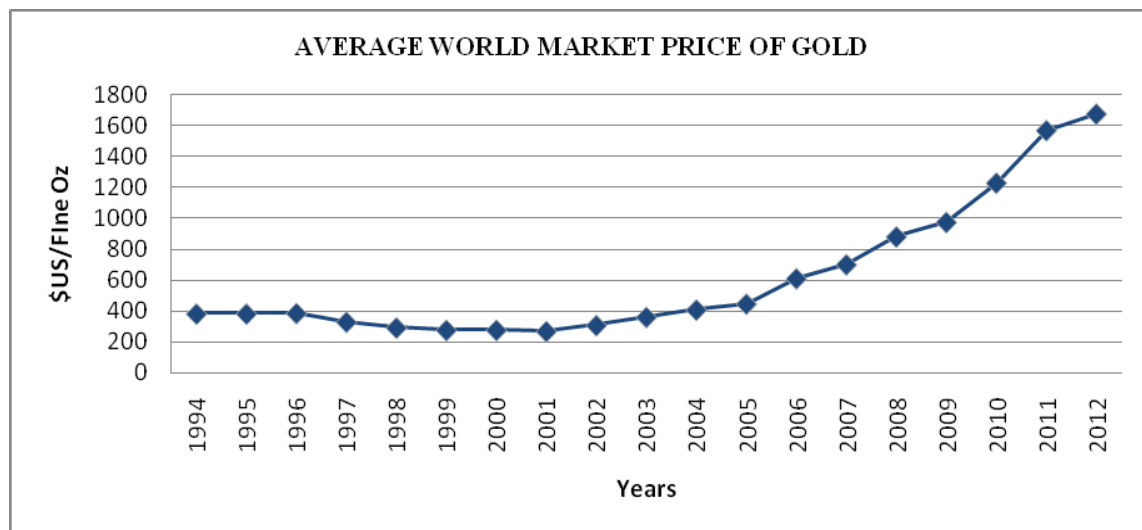
¹ Extract from the Industrial Production Index (IPI), which constitutes apart from Mining and Quarrying, the Manufacturing and Electricity and Water sectors. Out of a total weight of 100.0 in the IPI, Mining and Quarrying has a weight of 3.0

APPENDIX VII

AVERAGE WORLD MARKET PRICE OF GOLD

Period	Gold \$US/Fine oz
1994	384.08
1995	384.11
1996	387.79
1997	331.43
1998	294.19
1999	278.70
2000	279.14
2001	271.05
2002	309.47
2003	363.16
2004	409.73
2005	448.72
2006	612.76
2007	703.15
2008	882.90
2009	977.49
2010	1,231.32
2011	1,571.15
2012	1,677.78

Source: Reserve Bank of Fiji



APPENDIX VIII

MACROECONOMIC AGGREGATES 1990 – 2012
(\$)

YEAR	GO	IC	VA	COE	CFC	OS
1990	61,410,000	45,059,000	16,351,000	15,067,000	9,347,000	-8,063,000
1991	54,727,000	34,816,000	19,911,000	11,462,000	9,455,000	-1,006,000
1992	58,892,000	36,693,000	22,199,000	24,539,000	21,608,000	-23,948,000
1993	73,211,000	24,816,000	48,395,000	32,416,000	7,319,000	8,660,000
1994	75,134,956	28,533,715	46,601,241	34,976,284	5,148,188	6,476,769
1995	77,619,842	45,230,657	32,389,185	27,401,180	6,536,419	-1,548,414
1996	90,606,394	49,844,707	40,761,687	31,578,712	6,299,859	2,883,116
1997	98,698,172	58,782,443	39,915,729	35,142,905	5,253,299	-480,475
1998	102,709,344	53,976,670	48,732,674	31,962,031	8,108,616	8,662,027
1999	111,673,636	52,991,390	58,682,246	27,552,667	9,415,883	21,713,696
2000	98,707,315	49,544,489	49,162,826	27,757,085	8,636,713	12,769,028
2001	95,552,484	49,768,355	45,784,129	25,271,323	6,403,792	14,109,014
2002	88,872,883	52,391,712	36,481,171	30,501,424	6,222,771	-243,024
2003	102,072,735	56,094,813	45,977,922	30,544,575	6,860,172	8,573,175
2004	93,004,915	67,277,052	25,727,863	30,405,685	7,072,958	-11,750,780
2005	79,925,736	63,909,692	16,016,044	26,348,078	11,232,651	-21,564,685
2006	59,363,425	49,978,335	9,385,090	26,014,193	11,812,239	-28,441,342
2007	38,684,345	48,320,216	-9,635,871	33,289,407	8,981,694	-51,906,972
2008	74,441,183	55,131,314	19,309,869	27,073,854	3,913,282	-11,677,267
2009	103,785,971	59,575,072	44,210,899	33,654,405	5,760,985	4,795,509
2010	169,573,842	106,412,160	63,161,682	41,250,024	10,371,572	11,540,086
2011	183,155,576	105,891,564	77,264,012	42,207,991	12,454,290	22,601,731
2012	214,458,386	126,625,902	87,832,484	48,063,746	15,707,234	24,061,504

