

Periodical Part

Economic surveys / Fiji Bureau of Statistics. Mining and quarrying ; 2020

Reference: In: Economic surveys / Fiji Bureau of Statistics. Mining and quarrying Economic surveys / Fiji Bureau of Statistics. Mining and quarrying ; 2020 (2022).
<https://www.statsfiji.gov.fj/component/advlisting/?view=download&format=raw&fileId=7809>.

This Version is available at:
<http://hdl.handle.net/11159/629989>

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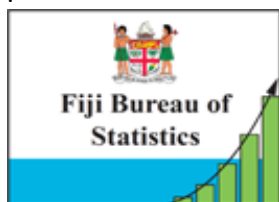
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ECONOMIC SURVEYS

MINING AND QUARRYING 2020

August 2022

Published in August by the

Fiji Bureau of Statistics

P.O. Box 2221

Government Buildings

Suva

Fiji

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ISSN 1996-8183

Key title: Economic surveys. Mining and Quarrying
Abbreviated key title: Econ.surv. Min.Quarr.

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PREFACE

The report provides information on the Mining and Quarrying industry in 2020. 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, however, it excludes information on mining and quarrying activities in the informal sector.

The important numbers presented are the macroeconomic 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 Gross Domestic Product, which is a measure of our economy's size. The information made available in this report will allow us to work out the industry's contribution to the economy. It also contributes to the inputs of the national accounts system which basically provides a quantitative image of the whole economy.

The information on the mining and quarrying industry would be useful to a good number of users. They include:

- 1) Economist who needs to analyse 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 Fiji Bureau of Statistics will continue to seek their support as we need to continually provide reliable statistics for evidence based planning. I would also like to thank the staff who were engaged in the conduct of the survey and the preparation of this report.



Maria Musudroka [Ms]
Acting Chief Executive

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 2020. 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 2020 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 to FSIC 2010 for more details).

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 2020 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 Service, Registrar of Companies and the City and Town Councils. In 2020, there were 21 establishments recorded compared to 24 establishments surveyed in 2019.

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 to Sample Questionnaire attached as Appendix VII).

2.6 Data Collection and Survey Procedures

The questionnaires were emailed and replies were required within a month. Response 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 to Sample Questionnaire attached as Appendix VII).

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 report was written.

2.7 Data Processing

Data was processed by FBoS' Economic Statistics Division using Microsoft Excel.

2.8 Reference Period

The establishments contacted were to submit details for the calendar year 2020. 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 2020.

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 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 Fijian Dollars and in current prices.

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 1A: The Survey Response

FSIC 2010		SURVEY FRAME	RETURNS RECEIVED	RESPONSE RATE %
SUB- CLASS	ACTIVITY			
07291	Mining of gold and silver	5	5	100
09901	Support activities for other mining and quarrying			
08999	Mining and quarrying n.e.c			
08101	Quarrying of stone, sand and clay	17	17	100
GRAND TOTAL		22	22	100

Table 1B: Responding Establishment Contribution

INDUSTRY	TOTAL GO OF INDUSTRY	GO OF RESPONDING ESTABLISHMENT (as per survey)	% CONTRIBUTION OF RESPONDING ESTABLISHMENT TO TOTAL GO
Mining and Quarrying Activities	194,772,142	194,772,142	100

3.2 Legal Status of Establishments

Table 2: Legal Status of Establishments

FSIC 2010		INDIVIDUAL OWNERSHIP	PARTNERSHIP	PRIVATE LIMITED COMPANY	NON-PROFIT ORGANISATION	PUBLIC LIMITED COMPANY	TOTAL
SUB- CLASS	ACTIVITY						
07291	Mining of gold and silver	0	0	5	0	0	5
09901	Support activities for other mining and quarrying						
08999	Mining and quarrying n.e.c						
08101	Quarrying of stone, sand and clay	1	0	15	0	1	17
GRAND TOTAL		1	0	20	0	1	22

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	2	2	1	5
09901	Support activities for other mining and quarrying				
08999	Mining and quarrying n.e.c				
08101	Quarrying of stone, sand and clay	16	0	1	17
GRAND TOTAL		18	2	2	22

3.4 Size of Establishments

Table 4: Size of Establishments

FSIC 2010		NUMBER OF PERSONS ENGAGED						
SUB-CLASS	ACTIVITY	1-4	5-9	10-19	20-49	50-99	100+	TOTAL
07291	Mining of gold and silver	1	0	0	0	2	2	5
09901	Support activities for other mining and quarrying							
08999	Mining and quarrying n.e.c							
08101	Quarrying of stone, sand and clay	3	4	2	4	4	0	17
GRAND TOTAL		4	4	2	4	6	2	22

3.5 Number of Persons Engaged as at 30 June 2020

Table 5A: 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	1,279	28	0	0	1,307
09901	Support activities for other mining and quarrying					
08999	Mining and quarrying n.e.c					
08101	Quarrying of stone, sand and clay	421	29	2	0	452
GRAND TOTAL		1,700	57	2	0	1,759

Table 5B: Number of Persons Engaged by Gender

FSIC 2010		GENDER		
SUB-CLASS	ACTIVITY	MALE	FEMALE	TOTAL
07291	Mining of gold and silver	1,219	88	1,307
09901	Support activities for other mining and quarrying			
08999	Mining and quarrying n.e.c			
08101	Quarrying of stone, sand and clay	405	47	452
GRAND TOTAL		1,624	135	1,759

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	146,612,810	67,293,091	79,319,719	34,332,853	37,629,702	7,357,164
09901	Support activities for other mining and quarrying						
08999	Mining and quarrying n.e.c						
08101	Quarrying of stone, sand and clay	48,159,332	26,657,390	21,501,942	7,128,264	9,225,136	5,148,542
GRAND TOTAL		194,772,142	93,950,481	100,821,661	41,461,117	46,854,838	12,505,706

3.7 Gross Fixed Capital Formation

Table 7: Gross Fixed Capital Formation (\$)

TYPE OF CAPITAL FORMATION	FSIC 2010 SUB-CLASS		
	07291/08999/09901	08101	TOTAL
Land development and improvement	0	0	0
Buildings	70,898,723	2,218,250	73,116,973
Plant, machinery and related equipment	41,950,292	952,883	42,903,175
Furniture, fixtures and office equipment	74,290	14,808	89,098
Transport vehicles and related equipment	69,004,844	941,122	69,945,966
ICT equipment, computer softwares and databases	821,848	0	821,848
Minerals exploration & evaluation	10,396,705	0	10,396,705
Other intellectual property products	8,871,000	0	8,871,000
GROSS FIXED CAPITAL FORMATION	202,017,702	4,127,063	206,144,765

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	NUMBER	\$	\$
07291	Mining of gold and silver	5	132,073,399	26,414,680
09901	Support activities for other mining and quarrying			
08999	Mining and quarrying n.e.c			
08101	Quarrying of stone, sand and clay	17	47,126,616	2,772,154
GRAND TOTAL		22	179,200,015	29,186,834

3.9 Average Compensation of Employees per Paid Employee

Table 9: 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	34,332,853	1,307	26,268
09901	Support activities for other mining and quarrying			
08999	Mining and quarrying n.e.c			
08101	Quarrying of stone, sand and clay	7,128,264	450	15,841
GRAND TOTAL		41,461,117	1,757	42,109

3.10 Loans and Advances

Table 10: Loans and Advances

FSIC 2010		CLOSING BALANCE		
SUB- CLASS	ACTIVITY	ABROAD	LOCAL	TOTAL
07291	Mining of gold and silver	359,069,653	0	359,069,653
09901	Support activities for other mining and quarrying			
08999	Mining and quarrying n.e.c			
08101	Quarrying of stone, sand and clay	0	1,936,206	1,936,206
GRAND TOTAL		359,069,653	1,936,206	361,005,859

3.11 2020 Results Compared with 2019 Results

Table 11: 2020 Results Compared with 2019 Results

AGGREGATES	2019		2020		Percentage change
	\$	Aggregates expressed as % of GO	\$	Aggregates expressed as % of GO	
GO	208,744,493		194,772,142		-6.7
IC	126,292,847	60.5	93,950,481	48.2	-25.6
VA	82,451,646	39.5	100,821,661	51.8	22.3
COE	41,575,822	19.9	41,461,117	21.3	-0.3
CFC	45,864,006	22.0	46,854,838	24.1	2.2
OS	-4,988,182	-2.4	12,505,706	6.4	N/A
GFCF	39,612,975		206,144,765		420.4
NUMBER OF PERSONS ENGAGED	1,843		1,759		-4.6

Notes to assist interpret Table 11:

The VA shows a gradual decrease of 22.3 percent due to the decline in Gross Output. The GFCF shows an increase of 420.4 percent when compared to 2019 due to more additions of assets by companies.

For supplementary information on the mining and quarrying sector reference can be made to Appendix I for the Concepts and Definitions, Appendix II on the Composition of Macroeconomic Aggregates, Appendix III for Production of Gold and Silver, Appendix IV for the Annual Mining and Quarrying Production Index, Appendix V for the Average World Market Price of Gold, Appendix VI for the Macroeconomic Aggregates 1995 – 2020 and Appendix VII on the Sample Questionnaire.

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 percent 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 percent 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: COMPOSITION OF MACROECONOMIC AGGREGATES

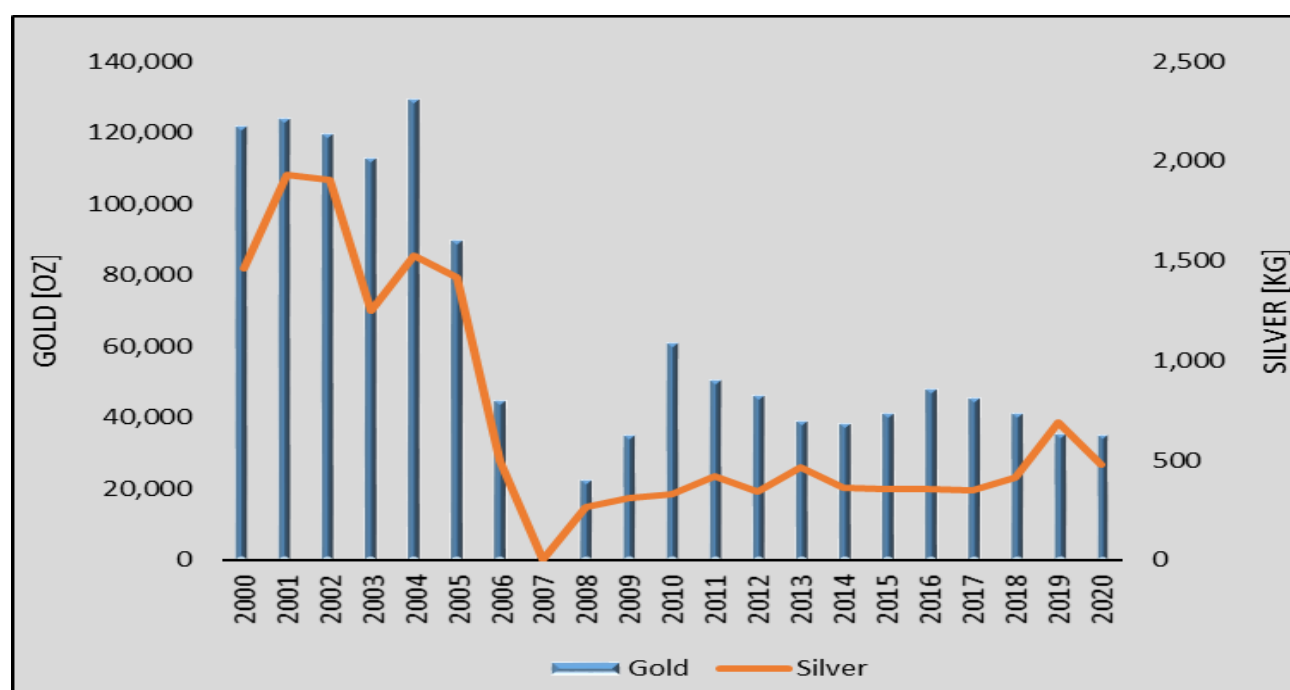
	FSIC 2010 SUB-CLASS		GRAND TOTAL
	07291/09901/08999	08101	
	Mining of gold & silver, Support activities for other mining & quarrying and Mining & quarrying n.e.c	Quarrying of stone, sand and clay	
INCOME			
Primary Activity			
Sales	131,476,399	40,926,616	172,403,015
Civil quarrying	597,000	3,900,000	4,497,000
Nursery & landscaping	0	700,000	700,000
Quarry aggregates	0	1,600,000	1,600,000
Change in stock of finished goods produced by the establishments	4,128,000	147,217	4,275,217
Change in stock of work in progress	0	0	0
Secondary Activity			
Gross margin	0	290,901	290,901
Sales Revenue	0	521,478	521,478
Less Cost of goods sold	0	230,577	230,577
Opening stock	0	0	0
Add purchases	0	230,577	230,577
Less closing stock	0	0	0
Rent & receipts received - building	0	0	0
Subsidies and grants received	0	0	0
Receipts from industrial services rendered to	0	0	0
Rent & receipts received - plant and machinery	0	0	0
Rent & receipts received - transport and related	0	0	0
Rent & receipts received - repairs and maintenance	0	0	0
Value of electricity sold	0	0	0
Gold hedging	0	0	0
Commissions received	0	0	0
Own account capital construction	0	9,053	9,053
Research & development	0	0	0
Other income	10,411,411	585,545	10,996,956
Gross Output	146,612,810	48,159,332	194,772,142
Miscellaneous Income	17,613,605	180,500	17,794,105
Discount	0	0	0
Business insurance claims received	0	0	0
Casualty insurance claims received	0	0	0
Profit or loss received from any other business in	0	0	0
Rent received from land	0	0	0
Interest received	147,178	44,418	191,596
Dividends received	0	0	0
Royalty received	0	0	0
Bad and doubtful debts recovered	0	0	0
Exchange gain	17,463,913	0	17,463,913
Surcharge	0	0	0
Service and license fees	0	0	0
Training rebates	2,514	0	2,514
Gain on sale of fixed assets	0	13,796	13,796
VAT charged on goods and services provided	0	122,286	122,286
TOTAL INCOME	164,226,415	48,339,832	212,566,247
EXPENDITURE			
Expenditure on materials for use in the business	48,746,675	8,286,108	57,032,783

	FSIC 2010 SUB-CLASS		GRAND TOTAL
	07291/09901/08999	08101	
	Mining of gold & silver, Support activities for other mining & quarrying and Mining & quarrying n.e.c	Quarrying of stone, sand and clay	
Change in stock of material	-3,447,000	14,985	-3,432,015
Petrol/Automotive diesel oil	3,468,333	706,632	4,174,965
Industrial diesel fuel/Heavy fuel oil	1,972,701	2,341,212	4,313,913
Kerosene	0	0	0
Liquid petroleum gas	0	0	0
Electricity expense	3,102,157	348,875	3,451,032
Water expense	292,269	88,062	380,331
Repairs and maintenance paid for motor vehicles	161,286	1,042,889	1,204,175
Repairs and maintenance paid for building	0	280,736	280,736
Repairs and maintenance paid for machinery and	558,892	1,843,999	2,402,891
Cartage and haulage expenses paid to other firms	1,322,953	3,878,760	5,201,713
Travel expenses - air	61,966	95,671	157,637
Travel expenses - land	1,052	105,914	106,966
Travel expenses - water	5,831	49,699	55,530
Value of contract and commission work done	0	111,380	111,380
Audit and accounting	70,970	105,767	176,737
Legal fee	0	70,881	70,881
Advertising and promotion etc.	14,079	207,704	221,783
Bank charges	616,058	363,292	979,350
Postage	1,245	28,424	29,669
Telephone and telecommunication	149,210	89,331	238,541
Office stationery and supplies	5,732,625	338,749	6,071,374
Management and consultation fee	376,204	482,671	858,875
Rent paid for building	0	332,062	332,062
Rent paid for plant and machinery	1,052,781	876,350	1,929,131
Business insurance	99,620	603,169	702,789
Security services	1,509,000	101,285	1,610,285
Cleaning services	0	507	507
Entertainment expenses	13,151	50,029	63,180
All other costs and expenses	1,411,033	3,812,247	5,223,280
Intermediate Input	67,293,091	26,657,390	93,950,481
Miscellaneous Expenditure	24,503,567	1,946,788	26,450,355
Casualty insurance	0	0	0
Property expense - rent paid for land	24,191	13,972	38,163
Property expense - interest paid	15,367,399	501,684	15,869,083
Property expense - dividend paid	0	3,376	3,376
Property expense - royalty	3,880,564	965,911	4,846,475
Bad and doubtful debts written off	656,433	20,800	677,233
Business licences, rates paid to central or local	10,265	90,834	101,099
FNU levy	53,801	84,588	138,389
Exchange losses	0	143,163	143,163
Loss on sale of fixed assets	87,914	18,402	106,316
VAT paid on supplies of goods and services	4,415,000	100,699	4,515,699
Donations	8,000	3,359	11,359
Compensation of Employees	34,332,853	7,128,264	41,461,117
Wages and salaries paid	28,738,167	6,629,237	35,367,404
FNPF	2,716,686	491,509	3,208,195
Payment in kind	2,878,000	7,518	2,885,518
Consumption of fixed capital	37,629,702	9,225,136	46,854,838
TOTAL EXPENDITURE	163,759,213	44,957,578	208,716,791

APPENDIX III: PRODUCTION² OF GOLD AND SILVER

	Gold	Silver			Gold	Silver			Gold	Silver
Period	[oz]	[Kg]		Period	[oz]	[Kg]		Period	[oz]	[Kg]
1970	104,008	na		1971	83,013	na		1972	76,004	na
1973	79,991	na		1974	68,995	na		1975	68,738	na
1976	65,780	na		1977	49,351	na		1978	28,068	na
1979	29,675	na		1980	24,885	208		1981	30,833	261
1982	45,750	576		1983	40,124	405		1984	48,515	473
1985	59,961	459		1986	91,822	774		1987	92,080	841
1988	137,348	988		1989	135,708	1,055		1990	132,33	779
1991	88,189	477		1992	118,990	1,258		1993	121,65	1,112
1994	113,653	1,498		1995	112,399	2,083		1996	143,13	1,882
1997	150,176	2,594		1998	119,665	1,745		1999	142,39	2,125
2000	121,980	1,462		2001	124,263	1,934		2002	119,79	1,903
2003	113,074	1,247		2004	129,664	1,523		2005	89,796	1,418
2006	45,103	494		2007	932	0		2008	22,497	265
2009	35,074	313		2010	61,172	328		2011	50,557	418
2012	46,271	342		2013	39,167	462		2014	38,466	361
2015	41,463	354		2016	48,226	354		2017	45,805	350
2018	41,174	413		2019	35,571	692		2020	35,057	479

GRAPH 1: PRODUCTION² OF GOLD AND SILVER 2000 -2020



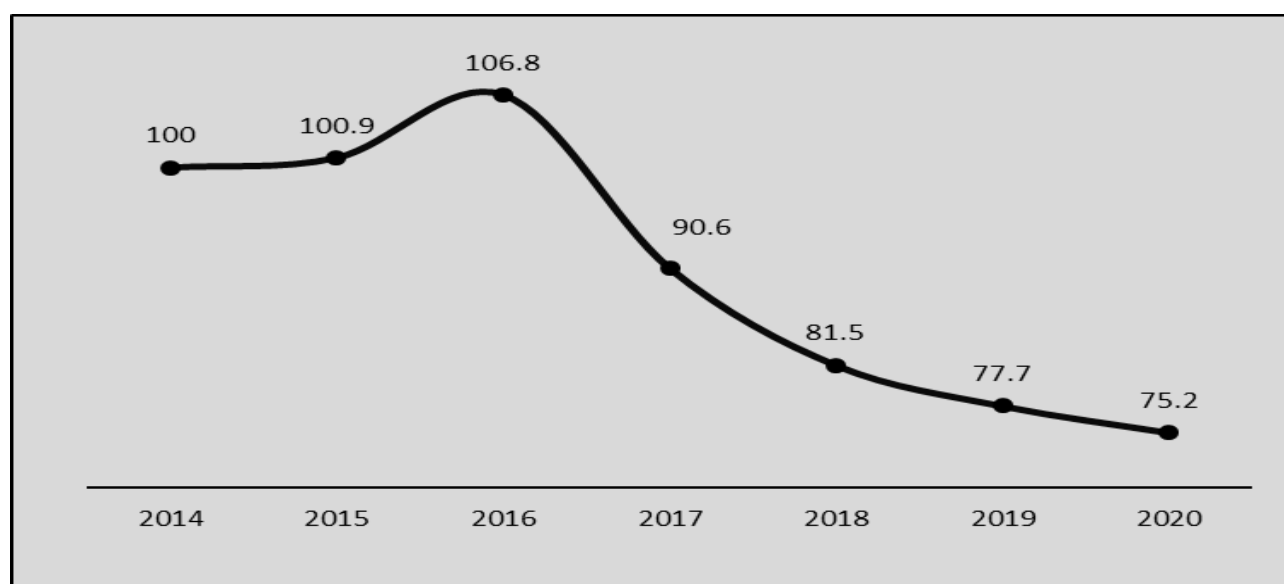
² Production data is based on calendar year; whereas the Macroeconomic aggregates are based on financial year data since it is not possible to split financial data by calendar year (refer 2.8 on Reference Period).

APPENDIX IV: ANNUAL MINING AND QUARRYING PRODUCTION INDEX³

[Base Average 4 = Quarters 2014 = 100.0]

Division	Commodity	Weight	YEARS						
			2014	2015	2016	2017	2018	2019	2020
07/08	Mining and Quarrying	4.0	100.0	100.9	106.8	90.6	81.5	77.7	75.2

Graph 2: ANNUAL MINING AND QUARRYING PRODUCTION INDEX³
[Base Average 4 = Quarters 2014 = 100.0]



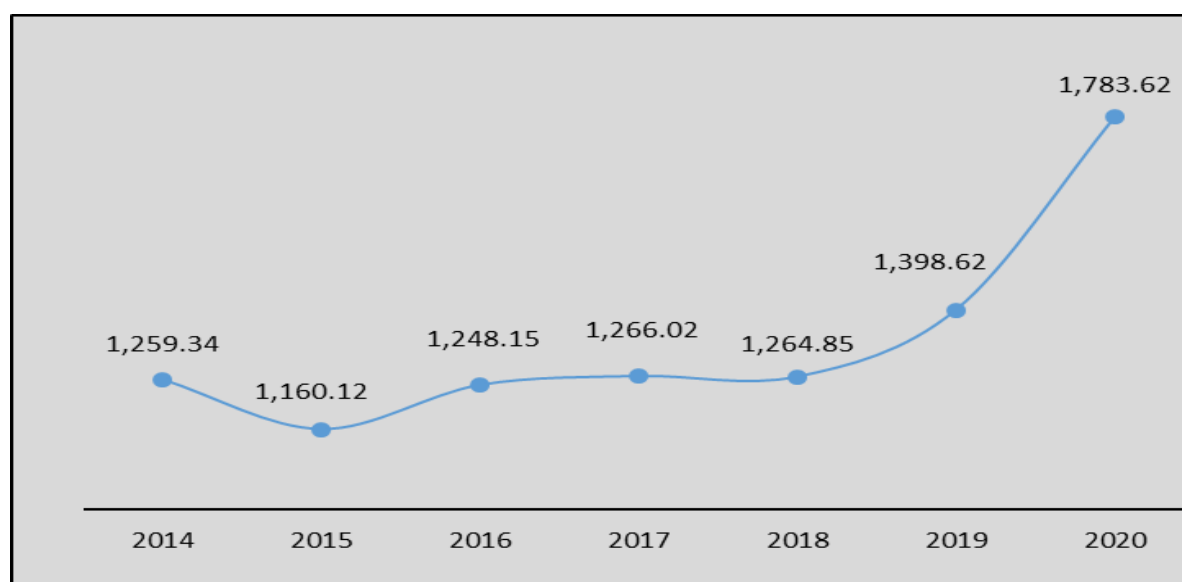
³ Extract from the Industrial Production Index (IPI), which constitutes apart from Mining and Quarrying, the Manufacturing and Electricity and Water sectors. Out of a total weight of 100.0 in the IPI, Mining and Quarrying has a weight of 4.0.

APPENDIX V: 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
2013	1,393.70
2014	1,259.34
2015	1,160.12
2016	1,248.15
2017	1,266.02
2018	1,264.85
2019	1,398.62
2020	1,783.62

Source: Reserve Bank of Fiji

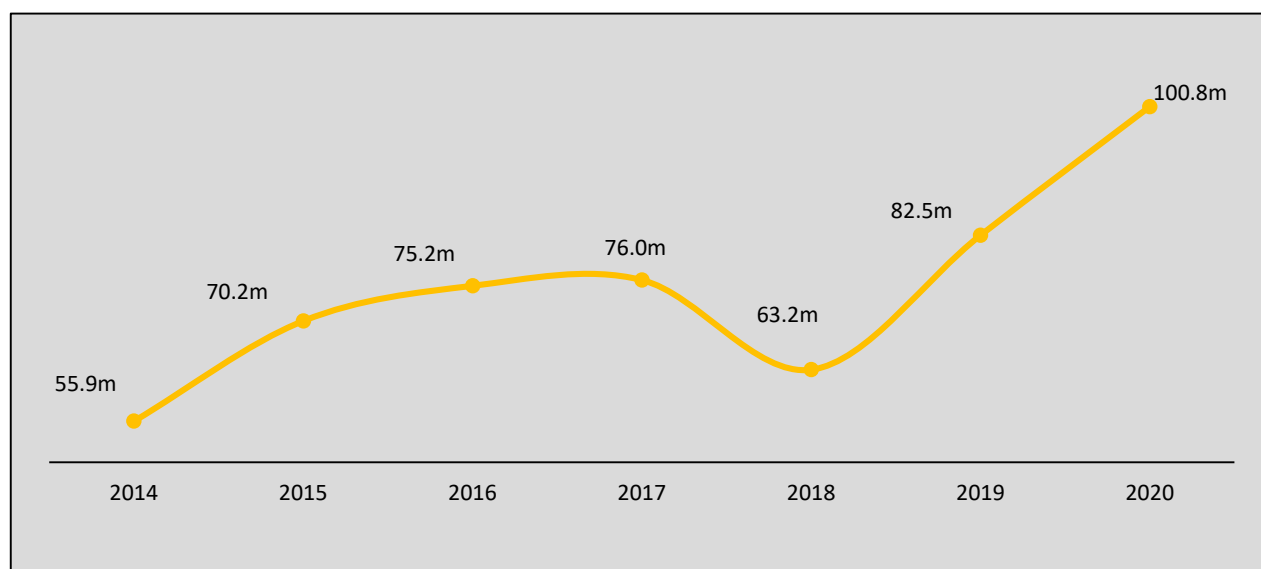
GRAPH 3: AVERAGE WORLD MARKET PRICE OF GOLD 2014 - 2020



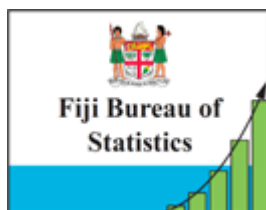
APPENDIX VI: MACROECONOMIC AGGREGATES 1995 – 2020 (\$)

YEAR	GO	IC	VA	COE	CFC	OS
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
2013	190,691,789	130,991,283	59,700,506	47,059,952	16,241,046	-3,600,492
2014	177,550,706	121,651,027	55,899,679	50,242,704	18,209,947	-12,552,972
2015	189,921,902	119,715,183	70,206,720	40,293,997	17,293,547	12,619,175
2016	210,288,389	135,066,524	75,221,865	40,487,577	15,799,399	18,934,889
2017	195,819,273	119,775,872	76,043,401	39,049,411	16,566,719	20,427,271
2018	187,121,098	123,871,789	63,249,309	38,963,680	19,597,915	4,687,714
2019	208,744,493	126,292,847	82,451,646	41,575,822	45,864,006	-4,988,182
2020	194,772,142	93,950,481	100,821,661	41,461,117	46,854,838	12,505,706

GRAPH 4: VALUE ADDED 2014 – 2020 (\$Millions)



APPENDIX VII: SAMPLE QUESTIONNAIRE



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Government Buildings
Suva
FIJI

Telephone: [679] 331 5822
Fax No: [679] 330 3656
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Website: www.statsfiji.gov.fj

CONFIDENTIAL

DESPATCHED: __/__/__

2020 CENSUS OF MINING AND QUARRYING

Tax Identification Number

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

Please correct any errors appearing in this label

Dear Sir/Madam,

Enclosed is a copy of the 2020 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 Section B (refer note on page 2). If an establishment's Mining and Quarrying activities are combined with other type of business, please report only the operations of the mining and quarrying activities.

PURPOSE: The census provides an important means of assessing the contribution this sector makes to the economy of Fiji, and indicates the changing composition and structure of the industry. The results of the Census will be used by the Fiji Bureau of Statistics in the estimation of the National Income of Fiji and in the provision of other key indicators.

REFERENCE PERIOD: Reference period is the calendar year 2020. If your accounting year is different provide information approximating closest to the calendar year 2020. 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 (Cap 71). In accordance with Section 8 subsection 2 of this Act you are required to fill the questionnaire and return it to the undersigned by the stated due date. Please be advised that failure to meet the above deadline may lead to legal action.

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 authorised persons will have access to individual information.

CONTACT PERSON FOR HELP AND ADVICE: Ms. Sarah Raikoti on email sraikoti@statsfiji.gov.fj or telephone 331 5822 (ext. 386 247) or direct line 323 0847.

Maria Musudroka [Ms]
Acting Chief Executive

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

This return is required for the addressed establishment only. In case this is not possible, a combined return with similar main activities may be submitted. If the information cannot be provided on this basis, please state the reasons.

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

- 5 (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

- 6 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.

OPERATING STATUS

If you are no longer in business, a **STATUTORY DECLARATION** must be attached with 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.

QUESTIONNAIRE

All relevant questions must be answered with clear and correct figures. Estimates will be accepted where actual data are not available. Values, **excluding VAT**, are to be expressed in Fiji Dollars.

1. Organisational Structure

Does this business operate at more than one location?			
Please tick the appropriate box: No Yes If yes, please give details below:			
NAME OF ESTABLISHMENT\BRANCH (1)	PHYSICAL LOCATION OF BUSINESS (2)	MAIN TYPE OF BUSINESS OR ACTIVITY (3)	FSIC [FOR OFFICIAL USE ONLY] 001

2. Accounting Period

Please state the accounting period:	From \ \2020	To \ \2020
-------------------------------------	--------------------	------------------

3. Legal Status of Organisation

Please tick appropriate box						
002	Sole Trader	1		Partnership	2	
	Private Limited Company	3		Public Limited Company	4	
	Co-operative	5		Government Owned Trading Entity	6	
	Statutory Board	7		Central Government	8	
	Local Authority	9		Local Government	10	
	Joint Venture and Consortia	11		Non-profit Organization	12	
	Trusts and Estates	13		Consulates and Foreign	14	
	Branch of a Company	15		Societies and Associations	16	
	Other Business Type (specify)				17	

4. International Trade

Please tick appropriate box	Yes	No
Does the establishment import or export any type of goods or services		
If yes, please specify. _____		

5. Form of Ownership

Please tick appropriate box						
003	Fiji owned	1		Branch of an overseas company	2	
	Subsidiary of an overseas company	3		Others (specify)	4	

6. Equity Participation

Please indicate the equity capital held by Fiji Citizens. As at end of 2020	%
---	---

INCOME FROM SALE OF GOODS DURING THE ACCOUNTING YEAR

- 7 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 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 export.

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

Please supply the value of the goods produced by the establishment.

OTHER INCOME

- 8 Include rent received for building.
- 11-13 Include rent received for plant and machinery, transport and related equipment, repairs and maintenance. Exclude rent received for land which should be included in question 23.
- 14 State the total sales, if any, of electricity produced by your establishment.
- 18 This is the resale value of goods bought, the goods being in the same condition as received and does not go through any manufacturing process by your enterprise.
- 21 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.
- 22 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.

Income

Primary Income Earned During The Accounting Period			VALUE (\$)
7	a)	004	
	b)	005	
	c)	006	
	d)	007	
Other Income			
8	Rent & receipts received - building	008	
9	Subsidies and grants received	009	
10	Receipts from industrial services rendered to others	010	
11	Rent & receipts received - plant and machinery	011	
12	Rent & receipts received - transport and related equipment	012	
13	Rent & receipts received - repairs and maintenance	013	
14	Value of electricity sold	014	
15	Gold hedging	015	
16	Commissions received	016	
17	Own account capital construction	017	
18	Income of sales of good without transformation (see question 37)	018	
19	Other income	019	
20	Discount	020	
21	Business insurance claims received	021	
22	Casualty insurance claims received	022	
23	Profit or loss received from any other business in which you have an interest	023	
24	Rent received from land	024	
25	Interest received	025	
26	Dividends received	026	
27	Royalty received	027	
28	Bad and doubtful debts recovered	028	
29	Exchange gain	029	
30	Surcharge	030	
31	Service and license fees	031	
32	Training rebates	032	
33	Gain on sale of fixed assets	033	
34	VAT charged on goods and services provided	034	
35	Grand Total of All Income Received [Codes 004 to 034]	035	

PURCHASES OF MATERIALS AND OPERATING EXPENDITURE

36 State in detail the total value 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 50.

- 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 93.
- Exclude all purchases of: Machinery and plant and other capital equipment purchased by you which should be included in question 93.

Exclude VAT paid on supplies of goods and services.

FUEL, ELECTRICITY AND WATER

38-41 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.

42-43 State the total value of electricity and water purchased by your establishment for the production process.

OTHER EXPENDITURE

44-46 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.

47 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.

52 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.

69 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 60.

70 Include interest on long-term debts and interest on all borrowing.

COMPENSATION OF EMPLOYEES

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

83 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.

Expenses

Purchases of Materials and Operating Expenditure			VALUE (\$)
36	Expenditure on materials for use in the Business		
	a]	036	
	b]	037	
	c]	038	
37	Expenditure on goods for resale without further processing (refer question	039	
Fuel, Electricity and Water			
38	Petrol/Automotive diesel fuel	040	
39	Industrial diesel fuel/heavy fuel oil	041	
40	Kerosene	042	
41	Liquid petroleum gas	043	
42	Electricity	044	
43	Water	045	
Other Expenditure			
44	Repairs and maintenance costs on vehicles	046	
45	Repairs and maintenance costs on building	047	
46	Repairs and maintenance costs on plant and machinery	048	
47	Cartage and haulage expenses paid to other firms	049	
48	Travel expenses on air transport	050	
49	Travel expenses on water transport	051	
50	Travel expenses on land transport	052	
51	Accommodation charges	053	
52	Value of contract and commission work done	054	
53	Audit and accounting	055	
54	Legal fee	056	
55	Advertising and promotion etc.	057	
56	Bank charges	058	
57	Postage	059	
58	Telephone and telecommunication	060	
59	Office stationery and supplies	061	
60	Rent paid on building	062	
61	Rent paid on plant and machinery	063	
62	Management and consultation fee	064	
63	Business insurance	065	
64	Casualty insurance	066	
65	Rent paid for land	067	
66	Interest paid	068	
67	Dividends paid	069	
68	Royalty paid	070	
69	Bad and doubtful debts written off	071	
70	Business licenses and rates paid	072	
71	Fiji National University [FNU] levy	073	
72	Exchange losses	074	
73	Loss on sale of fixed assets	075	
74	Donations made	076	
75	Security services	077	
76	Cleaning services	078	
77	Entertainment expenses	079	
78	Depreciation claimed (to agree with question 93(8))	080	
79	All other costs and expenses	081	
80	Vat paid on Supplies of goods and services	082	
Compensation of Employees			
81	Gross wages and salaries	083	
82	Employers Contribution to FNPF	084	
83	Payment in kind	085	
84	Grand Total of Expenditure Incurred [Codes 036 to 085 excluding 073]	086	

STOCKS

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

LOANS AND ADVANCES

- 89 Please provide information relating to any loan or advances at the end of the accounting period.

NET EARNINGS

- 90 This is the net profit of your establishment\enterprise from the profit and loss account.

NUMBER OF EMPLOYMENT

- 91 Please note that the information in respect of employment is for the last pay week in June 2020.

Operatives includes all employees directly engaged in the activity of the establishment, e.g. 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, e.g. 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.

ENVIRONMENT RELATED QUESTIONS

- 92 In view of the importance of climate change and disaster related events, the FBoS has embarked on compiling Environment Economic Account to be consistent and comparable with other countries. Therefore, the need to capture these statistics from all sectors within the economy, including all business entities. The information provided by the establishment would help us further improve these accounts which would be used in planning and policy formulation.

85- 88. Stocks

		VALUE OF STOCKS (\$)		
Please give the value of stocks held by your establishment		OPENING (1)	CLOSING (2)	CHANGE (2)-(1)=(3)
Finished goods produced by the establishment and intended for sale	087			
Work-in-progress	090			
Finished goods bought for resale	093			
Materials, fuels, supplies and	096			
Total	099			

89. Loans and Advances - Closing Balance

Locally	102	
Abroad	103	
Total	104	

90. Net Earnings

		Amount(\$)
Net profit\loss of your establishment\enterprise. [Codes (035 + 101)- 086]	105	

91. Number of Employment

		NUMBER EMPLOYED
a]	Working with pay	
	Fiji Citizens	106
	Expatriates	107
b]	Working without pay	
	i] Working proprietors	108
	ii] Unpaid family workers	109
	Total (104+105+106+107)	110
c]	The total number in employment by Gender	
	i] Total Males	111
	ii] Total Females	112

91. Environment Related Questions

[113]	Please tick the appropriate source of water for the establishments		
	Metered Water	1	
	Rain Water	2	
	River / Creek	3	
	Bore Hole	4	
	Others (Please specify)	5	
[114]	Please tick the appropriate source of energy for the establishments		
	Electricity [EFL]	1	
	Electricity [Own Generation]	2	
	(a) Solar	2a	
	(b) Hydro	2b	
	(c) Diesel / Thermal	2c	
	(d) Windmill	2d	
[115]	Please indicate the method of solid waste disposal of the establishments		
	Collection by City / Town Council	1	
	Collection by Private Companies	2	
	Private Incineration	3	
	Private Dumpsite	4	
	Recycled	5	
	Others (Please specify)	6	
[116]	Please indicate the method of liquid waste disposal of the establishments		
	Connected to Sewerage Line	1	
	Septic Tank	2	
	Disposal in the sea / river	3	
	Others (Please specify)	4	

CAPITAL ASSETS

- 93 (8) Please ensure that: The value given for depreciation should agree with the value given in question 80.
- 93 (5) Own Account Capital Construction: This is the cost of new assets and 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.
- 93 Entertainment Literary/Artistic Originals include:
- (a) Precious stones and metals (e.g. diamonds, non-monetary, gold, Platinum and silver);
 - (b) Antiques and other art objects (e.g. painting and sculptures); and
 - (c) Other valuables (e.g. jewellery and collector items).

93. Capital Assets

		VALUE (\$)								
		Opening book value	Purchase of new and second hand assets at cost		Land Development & Improvement	Own Account Capital Construction	Other Changes	Sales of Capital assets	Depreciation	Closing Book value
			locally	from abroad						
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Residential Buildings	117									
Non- residential Buildings	126									
Other structures	135									
Land	144									
Transport Vehicles and related equipment	153									
ICT equipment	162									
Furniture, fixtures and office equipment	177									
Other Machinery& Equipment	180									
Cost of ownership transfer on non- produced assets	189									
Research & Development	198									
Mineral Exploration & Evaluation	207									
Computer software & Database	216									
Entertainment Literary/Artistic Originals	225									
Renewable Energy equipment Related	234									
Other Intellectual Property Products	243									
Total	252									

Person we should contact if any queries arise regarding this form:

Name: _____

Telephone: _____

Facsimile: _____

Email: _____

Signature: _____

Date: _____

THANK YOU FOR COMPLETING THE QUESTIONNAIRE