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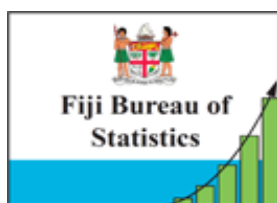
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ECONOMIC SURVEYS

MINING AND QUARRYING 2021

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PREFACE AND ACKNOWLEDGEMENTS


The report provides information on the Mining and Quarrying industry in 2021. The information was 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. The department would also like to thank the staff who were engaged in the conduct of the survey and the preparation of this report.



Bimlesh Krishna [Mr]

Chief Statistician - Economic Statistics Division

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 2021. 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 2021 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 to 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 2021 was the list of establishments maintained by the FBoS. This list is known as the Business Register (BR), which is kept updated based on information supplied to the FBoS by the Fiji Revenue and Customs Service, Registrar of Companies and the City and Town Councils. In 2021, the list of establishments remained at 22.

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 2021. 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 2021.

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	192,899,317	192,899,317	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	2	0	0	1	1	1	5
09901	Support activities for other mining and quarrying							
08999	Mining and quarrying n.e.c							
08101	Quarrying of stone, sand and clay	4	3	3	5	2	0	17
GRAND TOTAL		6	3	3	6	3	1	22

3.5 Number of Persons Engaged as at 30 June 2021

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	1,511	22	0	0	1,533
09901	Support activities for other mining and quarrying					
08999	Mining and quarrying n.e.c					
08101	Quarrying of stone, sand and clay	372	19	2	0	393
GRAND TOTAL		1,883	41	2	0	1,926

Table 5B: Number of Persons Engaged by Gender

	FSIC 2010	GENDER		
SUB-CLASS	ACTIVITY	MALE	FEMALE	TOTAL
07291	Mining of gold and silver	1,453	80	1,533
09901	Support activities for other mining and quarrying			
08999	Mining and quarrying n.e.c			
08101	Quarrying of stone, sand and clay	356	37	393
GRAND TOTAL		1,809	117	1,926

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	136,399,556	85,198,012	51,201,544	32,476,154	53,815,676	-35,090,286
09901	Support activities for other mining and quarrying						
08999	Mining and quarrying n.e.c						
08101	Quarrying of stone, sand and clay	56,499,761	35,326,489	21,173,272	7,071,120	7,982,695	6,119,457
GRAND TOTAL		192,899,317	120,524,501	72,374,816	39,547,274	61,798,371	-28,970,829

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	0	0	0
Plant, machinery and related equipment	18,910	10,565,533	10,584,443
Furniture, fixtures and office equipment	2,995	16,601	19,596
Transport vehicles and related equipment	629,807	527,299	1,157,106
ICT equipment, computer software and databases	0	2,153	2,153
Research & Development and Mineral Exploration & Evaluation	9,083,477	0	9,083,477
Other intellectual property products	7,685	0	7,685
GROSS FIXED CAPITAL FORMATION	9,742,874	11,111,586	20,854,460

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	127,395,184	25,479,037
09901	Support activities for other mining and quarrying			
08999	Mining and quarrying n.e.c			
08101	Quarrying of stone, sand and clay	17	53,901,819	3,170,695
GRAND TOTAL		22	181,297,003	8,240,773

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	32,476,154	1,533	21,185
09901	Support activities for other mining and quarrying			
08999	Mining and quarrying n.e.c			
08101	Quarrying of stone, sand and clay	7,071,120	391	18,085
GRAND TOTAL		39,547,274	1,924	20,555

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	399,179,916	258,000	399,437,916
09901	Support activities for other mining and quarrying			
08999	Mining and quarrying n.e.c			
08101	Quarrying of stone, sand and clay		719,225	719,225
GRAND TOTAL		399,179,916	977,225	400,157,141

3.11 2021 Results Compared with 2020 Results

Table 11: 2021 Results Compared with 2020 Results

AGGREGATES	2020		2021		Percentage change
	\$	Aggregates expressed as % of GO	\$	Aggregates expressed as % of GO	
GO	194,772,142		192,899,317		-1.0
IC	93,950,481	48.2	120,524,501	62.5	28.3
VA	100,821,661	51.8	72,374,816	37.5	-28.2
COE	41,461,117	21.3	39,547,274	20.5	-4.6
CFC	46,854,838	24.1	61,798,371	32.0	31.9
OS	12,505,706	6.4	-28,970,829	-15.0	-331.7
GFCF	206,144,765		12,162,983		-94.1
NUMBER OF PERSONS ENGAGED	1,759		1,926		9.5

Notes to assist interpret Table 11:

The VA shows a rapid decrease of 28.2 percent due to the increase in Intermediate Consumption. The GFCF shows a decrease of 94.1 percent when compared to 2020 due to less 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 – 2021 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

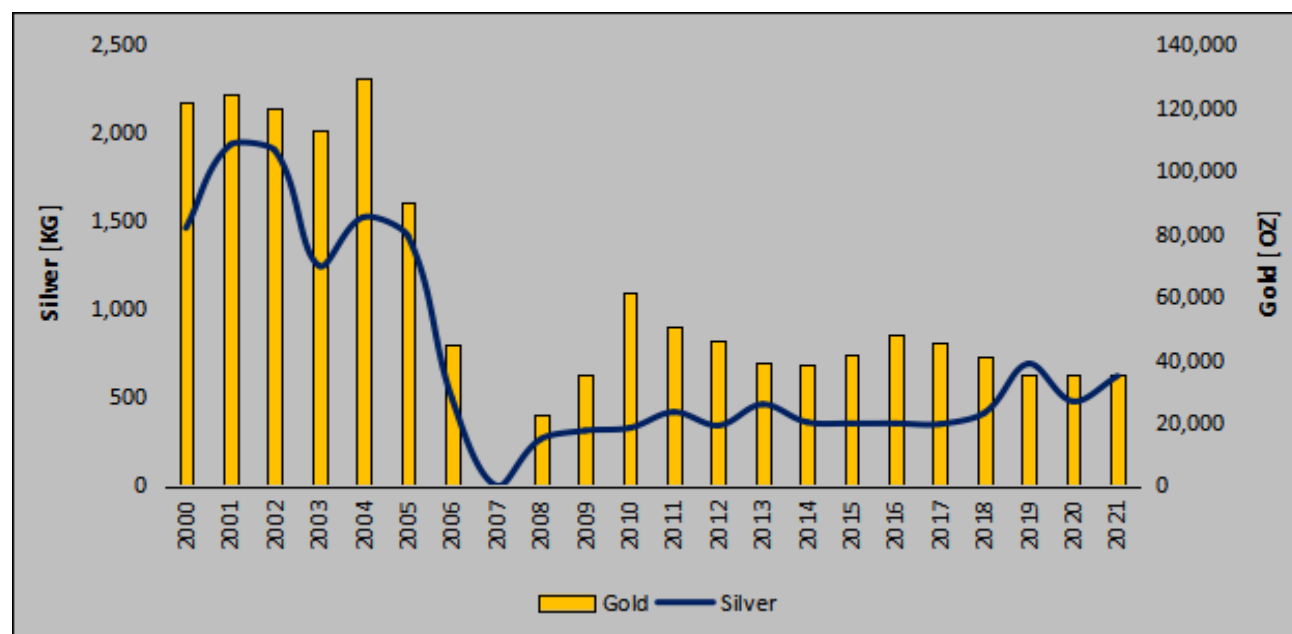
	FSIC 2010 SUB-CLASS		GRAND TOTAL
	07291/08999/09901	08101	
	Mining of gold & silver/ Mining & quarrying n.e.c/ Support activities for other mining & quarrying	Quarrying of stone, sand and clay	
INCOME			
Primary Activity			
Revenue from sales	127,395,184	53,901,819	181,297,003
a) Sales	127,395,184	50,701,819	178,097,003
b) Civil Quarrying	0	2,200,000	2,200,000
c) Nursery & Landscaping	0	1,000,000	1,000,000
d) Quarry Aggregates	0	0	0
Change in stock of finished goods produced by the establishments	-123,261	1,642,237	1,518,976
Change in stock of work in progress	0	179,869	179,869
Secondary Activity			
Gross margin	0	0	0
Sales revenue	0	0	0
Less COGS	0	0	0
Opening stock	0	0	0
Add purchases	0	0	0
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 others	0	0	0
Rent & receipts received - plant and machinery	0	43,318	43,318
Rent & receipts received - transport and related equipment	0	0	0
Rent & receipts received - repairs and maintenance	0	0	0
Research & development and mineral exploration & and evaluation	9,083,477	0	9,083,477
Other income	44,156	732,518	776,674
Gross Output	136,399,556	56,499,761	192,899,317
Miscellaneous Income	772,131	210,636	982,767
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 which you have an interest	0	0	0
Rent received from land	0	0	0
Interest received	142,434	15,564	157,998
Dividends received	0	0	0
Royalty received	0	0	0
Bad and doubtful debts recovered	0	0	0
Exchange gain	593,000	0	593,000
Surcharge	0	0	0
Service and license fees	0	0	0
Training rebates	0	0	0
Gain on sale of fixed assets	36,697	195,072	231,769
VAT charged on goods and services provided	0	0	0
TOTAL INCOME	137,171,687	56,710,397	193,882,084
EXPENDITURE			
Expenditure on materials for use in the business	42,769,788	19,444,834	62,214,622
Change in stock of material	0	0	0
Petrol/Automotive diesel oil	365,000	50,154	415,154

	FSIC 2010 SUB-CLASS		GRAND TOTAL
	07291/08999/09901	08101	
	Mining of gold & silver/ Mining & quarrying n.e.c/ Support activities for other mining & quarrying	Quarrying of stone, sand and clay	
Industrial diesel fuel/Heavy fuel oil	2,832,372	1,736,555	4,568,927
Kerosene	0	0	0
Liquid petroleum gas	0	248,022	248,022
Electricity expense	963	322,165	323,128
Water expense	277,751	8,185	285,936
Repairs and maintenance paid for motor vehicles	8,123	2,701,185	2,709,308
Repairs and maintenance paid for building	749	8,522	9,271
Repairs and maintenance paid for machinery and equipment	884,714	2,523,265	3,407,979
Cartage and haulage expenses paid to other firms	22,740	3,129,895	3,152,635
Travel expenses - air	25,874	18,229	44,103
Travel expenses - land	0	0	0
Travel expenses - water	41,531	368,473	410,004
Value of contract and commission work done	0	0	0
Audit and accounting	89,347	125,839	215,186
Legal fee	3,992,836	25,253	4,018,089
Advertising and promotion etc.	7,816	42,782	50,598
Bank charges	2,101,433	510,089	2,611,522
Postage	2,895	62,037	64,932
Telephone and telecommunication	170,747	17,560	188,307
Office stationery and supplies	142,652	153,467	296,119
Management and consultation fee	13,819	92,351	106,170
Rent paid for building	0	43,684	43,684
Rent paid for plant and machinery	161,063	890,353	1,051,416
Insurance paid - business	666,388	412,324	1,078,712
Security services	1,285,000	229,047	1,514,047
Cleaning services	1,646,235	7,022	1,653,257
Entertainment expenses	79,498	135,328	214,826
All other costs and expenses	27,608,678	2,019,869	29,628,547
Intermediate Input	85,198,012	35,326,489	120,524,501
Miscellaneous Expenditure	29,879,284	4,652,183	34,531,467
Casualty insurance	305,994	41,029	347,023
Property expense - rent paid for land	353,968	34,027	387,995
Property expense - interest paid	24,574,891	433,199	25,008,090
Property expense - dividend paid	0	125,559	125,559
Property expense - royalty	278,621	2,081,226	2,359,847
Bad and doubtful debts written off	29,857	986,169	1,016,026
Business licences, rates paid to central or local government	31,430	105,814	137,244
FNU levy	33,490	12,243	45,733
Exchange losses	2,833,319	0	2,833,319
Loss on sale of fixed assets	4,969	792,157	797,126
VAT paid on supplies of goods and services	1,387,745	8,022	1,395,767
Donations	45,000	32,738	77,738
Compensation of Employees	32,476,154	7,071,120	39,547,274
Wages and salaries paid	28,107,664	6,495,244	34,602,908
FNPF	2,510,450	395,875	2,906,325
Payment in kind	1,858,040	180,001	2,038,041
Consumption of fixed capital	53,815,676	7,982,695	61,798,371
TOTAL EXPENDITURE	201,369,126	55,032,487	256,401,613

APPENDIX III: PRODUCTION² OF GOLD AND SILVER

Period	Gold [oz]	Silver [Kg]		Period	Gold [oz]	Silver [Kg]		Period	Gold [oz]	Silver [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
2021	35,589	622								

GRAPH 1: PRODUCTION² OF GOLD AND SILVER 2000 - 2021

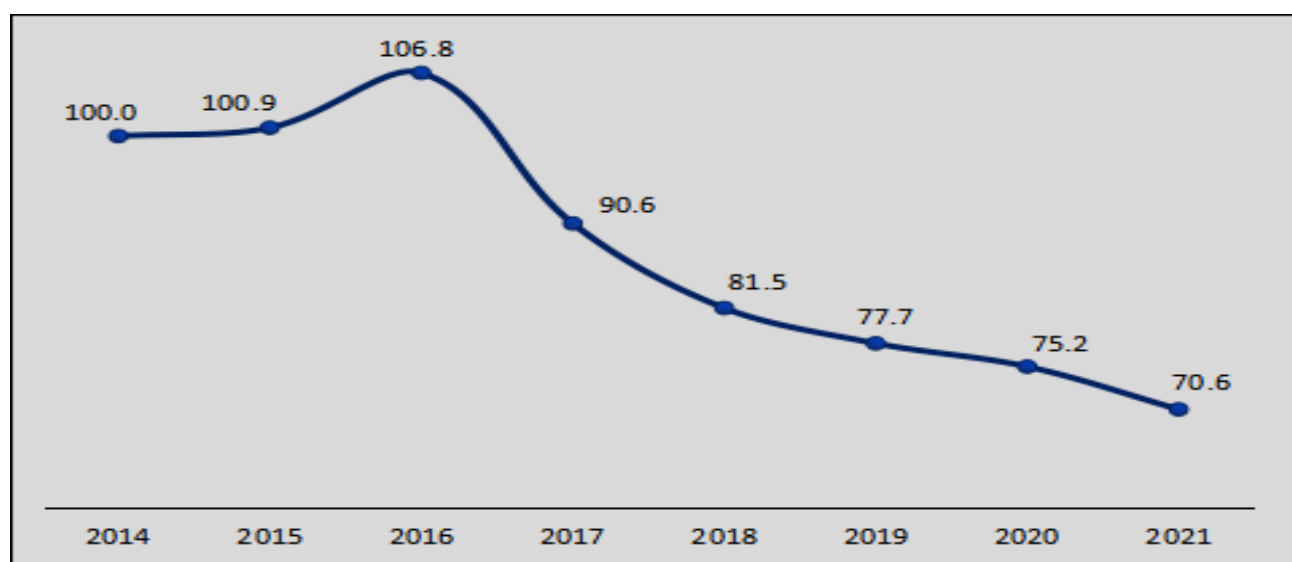


² Production data is based on calendar year; whereas the Macroeconomic aggregates are based on financial year data since it is not possible to split financial data by calendar year (refer to 2.8 on Reference Period).

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	2021
07/08	Mining and Quarrying	4.0	100.0	100.9	106.8	90.6	81.5	77.7	75.2	70.6

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



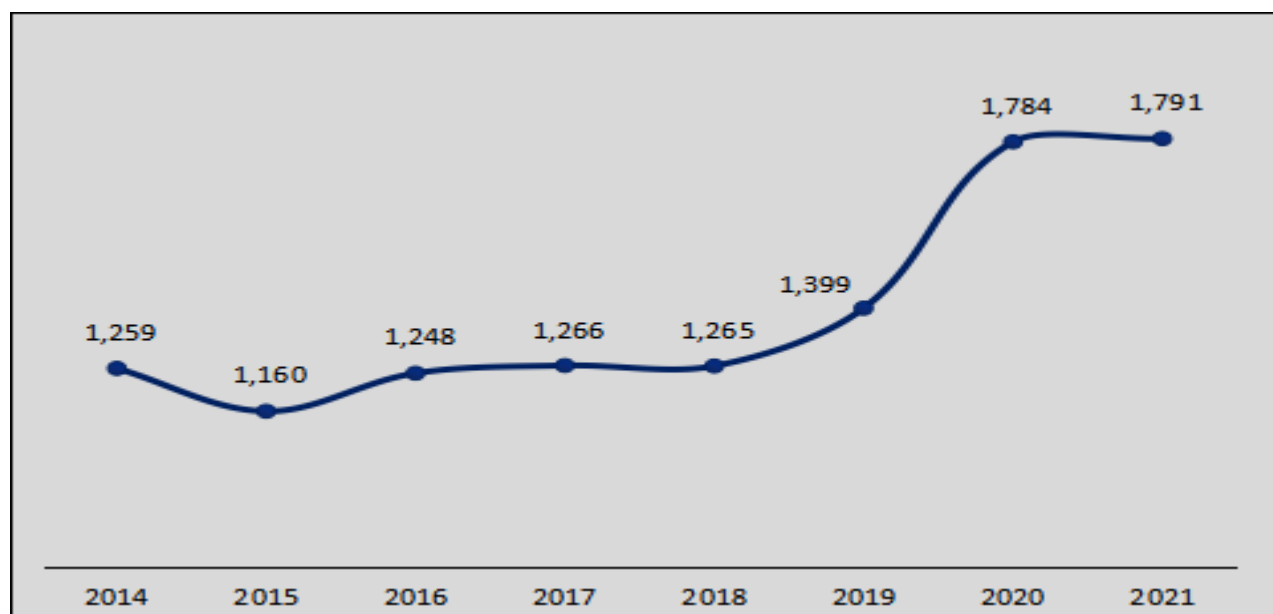
³ Extract from the Industrial Production Index (IPI), which constitutes apart from Mining and Quarrying, the Manufacturing and Electricity and Water sectors. Out of a total weight of 100.0 in the IPI, Mining and Quarrying has a weight of 4.0.

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
2021	1,790.89

Source: Reserve Bank of Fiji

GRAPH 3: AVERAGE WORLD MARKET PRICE OF GOLD 2014 - 2021



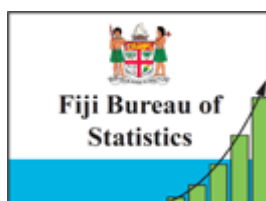
APPENDIX VI: MACROECONOMIC AGGREGATES 1995 – 2021 (\$)

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
2021	192,899,317	120,524,501	72,374,816	39,547,274	61,798,371	-28,970,829

GRAPH 4: VALUE ADDED 2014 – 2021 (\$Millions)



APPENDIX VII: SAMPLE QUESTIONNAIRE



Modyl Plaza, Lot 1 Karsanji Street, Vatuwaqa, Suva, Fiji

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Government Buildings
Suva
FIJI

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

CONFIDENTIAL

DESPATCHED: __/__/__

2021 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 2021 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 2021. If your accounting year is different provide information approximating closest to the calendar year 2021. 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. 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: Mr. Esava Cabenalevu on email ecabenalevu@statsfiji.gov.fj or telephone 331 5822 (ext. 386 247) or direct line 323 0847.

Maria Musudroka [Ms]
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 / /2021 To / /2021

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 Government	9		Joint Venture and Consortia	10
	Non-profit Organization	11		Trusts and Estates	12
	Consulates and Foreign Embassies	13		Branch of a Company incorporated Overseas	14

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 2021	%
-----------------------------------------------------------------------------	---

PRIMARY INCOME EARNED DURING THE ACCOUNTING PERIOD

- 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.

Exclude VAT charged on goods provided.

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 18)	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 on vehicles	046
45	Repairs and maintenance on building	047
46	Repairs and maintenance 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	Security services	066
65	Cleaning services	067
66	Entertainment expenses	068
67	All other costs and expenses	069
68	Casualty insurance	070
69	Rent paid for land	071
70	Interest paid	072
71	Dividend paid	073
72	Royalty paid	074
73	Bad and doubtful debts written off	075
74	Business licenses and rates paid	076
75	Fiji National University [FNU] levy	077
76	Exchange losses	078
77	Loss on sale of fixed assets	079
78	VAT paid on supplies of goods and services	080
79	Donations made	081
80	Depreciation (to agree with question 93(8))	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 2021

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.

86 - 88. Stocks

Please give the value of stocks held by your establishment		VALUE OF STOCKS (\$)		
		OPENING	CLOSING	CHANGE
Finished goods produced by the establishment and intended for sale	080			
Work-in-progress	083			
Finished goods bought for resale	086			
Materials, fuel, supplies and components	089			
Total	092			

89. Loans and Advances – Closing Balance

Locally	095	
Abroad	096	
Total	097	

90. Net Earnings

		Amount (\$)
Net profit/loss of your establishment/enterprise. [Codes (028+094)-079]	098	

91. Number of Employment

			NUMBER EMPLOYED
a]	Working with pay		
	Fiji citizens	099	
	Expatriates	100	
b]	Working without pay		
	i] Working proprietors	101	
	ii] Unpaid family workers	102	
	Total [Codes 099+100+101+102]	103	
c]	The total number in employment by gender		
	i] Total males	104	
	ii] Total females	105	

92. Environment Related Questions

106	Please tick the appropriate source of water for the establishments		
	Metered water [WAF]	1	
	Rain water	2	
	River/Creek	3	
	Bore hole	4	
	Others (Please specify)	5	
107	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	
108	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	
109	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	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: _____

Email: _____

Signature: _____

Date: _____

THANK YOU FOR COMPLETING THE QUESTIONNAIRE

