



KINGDOM OF TONGA

**Statistical Bulletin:**  
**MANUFACTURING OUTPUT,**  
**EMPLOYMENT AND WAGES/SALARIES**  
**2001-2005**



STATISTICS DEPARTMENT  
GOVERNMENT OF TONGA  
NUKU'ALOFA  
TONGA

## Preface

This is the eleventh Bulletin in the series on Manufacturing Output, Employment and Wages and Salaries and it presents results of the Quarterly Surveys conducted by the Department for the year 2001-2005. The survey results indicate the performance of the manufacturing industry in the Tongan Economy.

### **The bulletin is spread over four parts:**

- Part I:** gives the introduction and main results of the comparative position and trend of manufacturing production, employment and wages/salaries.
- Part II:** has the complementary analysis on level of production, employment and wages/salaries
- Part III:** has all the statistical tables showing growth and trend of manufacturing production, employment and wages/salaries.
- Part IV:** gives the questionnaire used in the quarterly survey of manufacturing production, employment and wages/salaries and instructions for completing the questionnaire.

Staff of the Survey division of the Department is commended for their hard work in collecting the information present in this bulletin.

The Department is grateful to all manufacturing establishments that supplied the data and information published in this bulletin. The Department welcomes any comments on how this bulletin could be improved.

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### **Notes and abbreviation**

#### **Rounding**

The sums of individual industries may not always come exactly to the totals shown, because of the effects of rounding. Discrepancies of 1 or 2 in the final digit should give no cause for concern.

ISIC International Standard Industrial Classification (Series M No.4, Rev.3)

# 1. Introduction

## Survey objective

1.1 This report presents the results of the quarterly survey of manufacturing production, employment and wages/salaries, conducted by the Statistics Department of Tonga over the period 2001-2005. The main objectives of the survey are:

- To provide updated information on levels of production, employment and wages/salaries;
- To provide some data for the components of National accounts; and
- To provide information on the performance of Manufacturing industries for Planners, Policy makers and the general public.

## Coverage

1.2 The Statistics Department launched a regular quarterly survey of Manufacturing production, employment and wages and salaries effective from July-September 1983. The survey covered all manufacturing establishments and units, including:

- (i) Those registered under the Companies Act 1912,
- (ii) Those granted Development License for manufacturing under the Industrial Incentives Act 1978 and
- (iii) Those engaged in manufacturing activities with a license issued by the Ministry of Labour, Commerce and Industries.

1.3 The survey did not cover enterprises, establishments and units that were engaged in (a) repair and maintenance of vehicles, machinery and equipment; (b) canning, preserving and processing of fish and fisheries products; and (c) household type of activities related to making handicrafts and the like.

1.4 An establishment was treated as manufacturing if it was engaged in the transformation (mechanical or chemical) of substances into new products whether by machines or by hand in a factory or other business premises. An establishment/unit engaged in the assembly of component parts of manufactured products was treated as engaged in manufacturing except where it undertook construction activity.

1.5 The definitions used for manufacturing businesses for the survey in question were:

**Establishment:** a separate operating unit (factory, store, workshop or other place, etc.) engaged in Tonga in one or predominantly one kind of economic activity at a single physical location.

**Enterprises:** a single business entity, Private, Government, Quasi-government, Co-operative and sole ownership, engaged in manufacturing type of activities is treated as an enterprise.

There are generally two types of enterprises viz.:

- i. "Single Establishment Enterprise" consisting of only one establishment and
- ii. "Multiple Establishments Enterprise" consisting of more than one establishment with or without ancillary unit or one establishment plus one or more ancillary units.

## **Data collection**

**1.6** Information was collected by personal visits of the survey staff of the Statistics Department to the manufacturing enterprises, establishments and units that were operational in the various quarters starting 1<sup>st</sup> Quarter 2001 and subsequently to the last quarter (October-December) of 2005. This covers establishments on the four main island divisions of Tonga namely Tongatapu, Vava'u, Ha'apai and 'Eua. This 12th Bulletin on manufacturing output, employment and wages and salaries contains data for calendar years 2001-2005.

## **Response rate**

**1.7** There is no non-response rate as one of the reason for delaying the publishing of the survey result is to get all the returns before processing the results.

## **Data processing**

**1.8** All data entry, editing checks and queries were done using the Access software package. Preparation of the final tables was done using Excel facility.

**1.9** Manufacturing establishments have been classified into Divisions according to the International Standard Industrial Classification (ISIC) Series M No. 4, Rev.3 for Major Divisions 15-37. The following ISIC divisions have been used.

### **The following ISIC Divisions have been used:**

- 15.** Manufacture of food products and beverages (bread, sausages, soft drinks and ice-cream etc.)
- 16.** Manufacture of Tobacco Products.(Cigarettes)
- 17.** Manufacture of textiles (t-shirt, pullovers and quilts etc.)
- 18.** Manufacture of wearing apparel; dressing and drying of fur (dress, trousers, lavalava etc.)
- 19.** Tanning and dressing of leather; manufacture of luggage, handbags, saddlery, harness and footwear
- 20.** Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials
- 21.** Manufacture of Pulp, paper or corrugated, paperboard and articles of paper
- 22.** Publishing, printing and reproduction of recorded media
- 24.** Manufacture of chemicals and chemical products (tablets, paint and varnish etc.)
- 26.** Manufacture of other non-metallic mineral products (concrete blocks and water tanks etc.)
- 28.** Manufacture of machinery and equipment n.e.c.
- 29.** Manufacture of electrical machinery and apparatus
- 30.** Manufacture of radio, television and communication equipment and apparatus
- 31.** Manufacture of medical, precision and optical instruments, watches and clocks
- 35.** Manufacture of other transport equipment (boat, cart, bicycle etc.)
- 36.** Manufacture of furniture
- 37.** Recycling and other manufacture industries n.e.c.

## 2. Main results

The quarterly survey of manufacturing output, employment and wages/salaries for year 2005 was carried out by the Statistics Department of Tonga between 2005 and 2006. The survey collects information on production, employment and wages/salaries, which include memorandum items. The survey covers all manufacturing establishments regardless of size; level of production or number of persons engaged. Due to funding constraints and the distance from the main island, the Niuas were excluded from the survey.

**Table 1: Summary of the survey results for year 2001-2005:**

Item	Unit	2001	2002	2003	2004	2005
1. Establishments covered	No.	115	123	130	127	135
2. Total production	T\$('000)	28,248	31,037	36,319	31,849	31,905
3. Persons employed	No.	1,188	1,258	1,375	1,333	1,490
4. Wages and salaries	T\$('000)	4,604	4,642	5,354	5,606	5,756

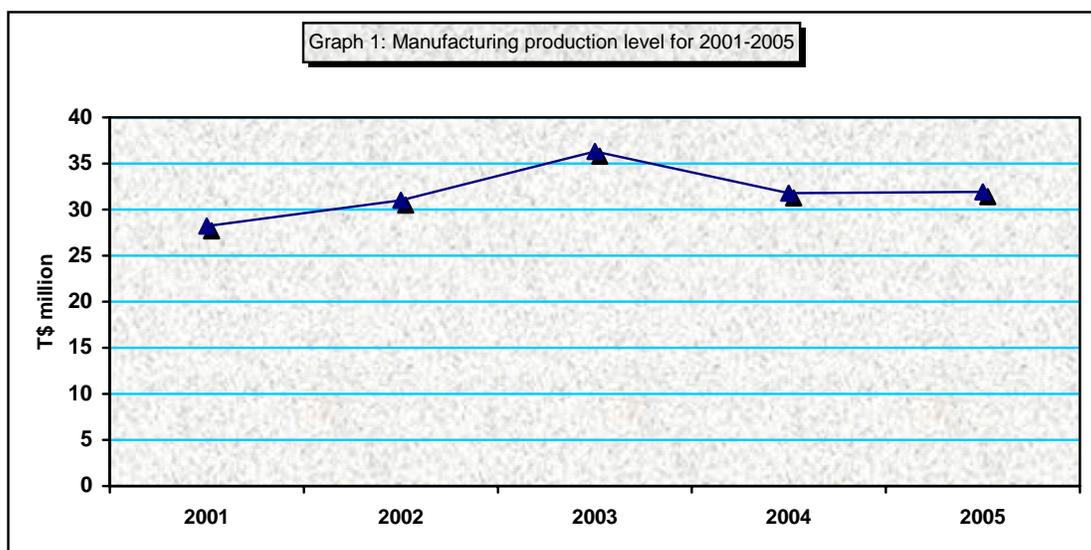
Source: Manufacturing survey, Statistics Dept.

### □ Manufacturing production

The total manufacturing production of Tonga in 2005 stood at 32 million pa'anga, which slightly over the production of 2004 by 0.1% (Table 1) and which occurred mainly among the groups of Food products and Beverages, up by 7%, Non Metallic Mineral products, up by 99%, Fabricated Metal Products, up by 13% and Other Manufacturing industries, up by 7%. These increases were offset by the decreases of other groups (table 2).

**Graph 1** below shows that total production increased from 28 million pa'anga in 2001 to 32 million in 2005 by 13%. The group of Food Products and Beverages showed the increases by 19%.

The trend in the level of total production is shown in **Graph 1** below.



Source: Manufacturing survey, Statistics Dept.

The increases in production was represented by the new establishments opened compared to 2004. This was particularly found in the group of Food Products and Beverages where Establishment of Kava included

During 2005, Food Products and Beverages industries contributed 20 million pa'anga (62%) of the total value of Production compared to 58% in 2004. And Non Metallic Mineral products contributed 4 million (13%).

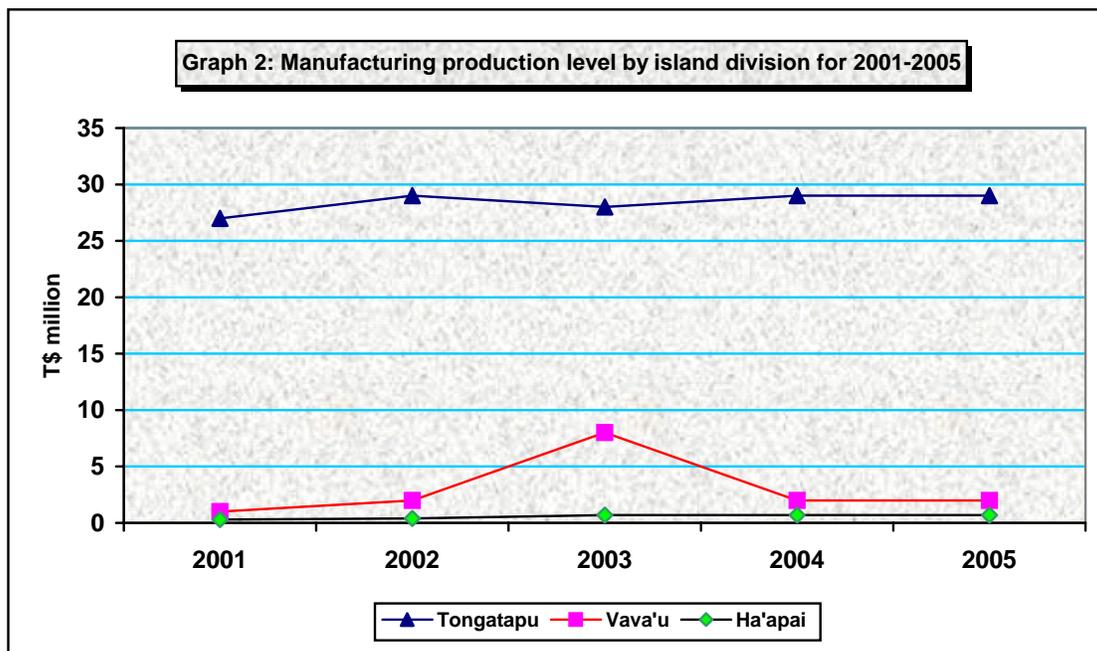
**Table 2** below shows some more detailed information on production by ISIC division.

Table 2: Manufacturing production by ISIC division for 2001-2005

ISIC division	T\$('000)				
	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	16,662	17,640	22,249	18,514	19,772
<b>22 Publishing and printing</b>	1,269	1,141	1,311	1,389	1,313
<b>24 Chemicals and chemical products</b>	2,949	4,616	4,113	5,204	2,044
<b>26 Non-metallic mineral products</b>	3,068	3,226	3,520	2,062	4,109
<b>28 Fabricated metal products</b>	1,640	1,682	807	1,052	1,193
<b>36 Manufactures of Furnitures</b>	1,570	1,530	1,150	1,621	1,310
<b>37 Other manufacturing industries</b>	1,090	1,202	3,169	2,007	2,164
<b>Total</b>	<b>28,248</b>	<b>31,037</b>	<b>36,319</b>	<b>31,849</b>	<b>31,905</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 includes 16,17,18,19,2,021,29,30,31 and,35

**Graph 2** shows that almost all the increase in production is accounted for by Tongatapu. Production in Tongatapu went up from 27 million pa'anga in 2001 to 29 million pa'anga in 2005.



Source: Manufacturing survey, Statistics Dept.

In Tongatapu, the industries like Food and Beverages contributed 62 %, an increase of 7% from 2004. Non Metallic mineral products contributed 13% to the total Manufacturing of Tonga and new establishments with significant contribution were also recognized.

Over the years 2001 in comparison to, 2005 the total Production from Vava'u increased by 75% although 6% down between 2004-2005, where vanilla production was the main effect.

Production for both Ha'apai and 'Eua looks favourable though an increase of 1% between 2004 and 2005.

Table 3 below shows the share of island division on manufacturing production.

**Table 3: Manufacturing production by Island division for 2001-2005**

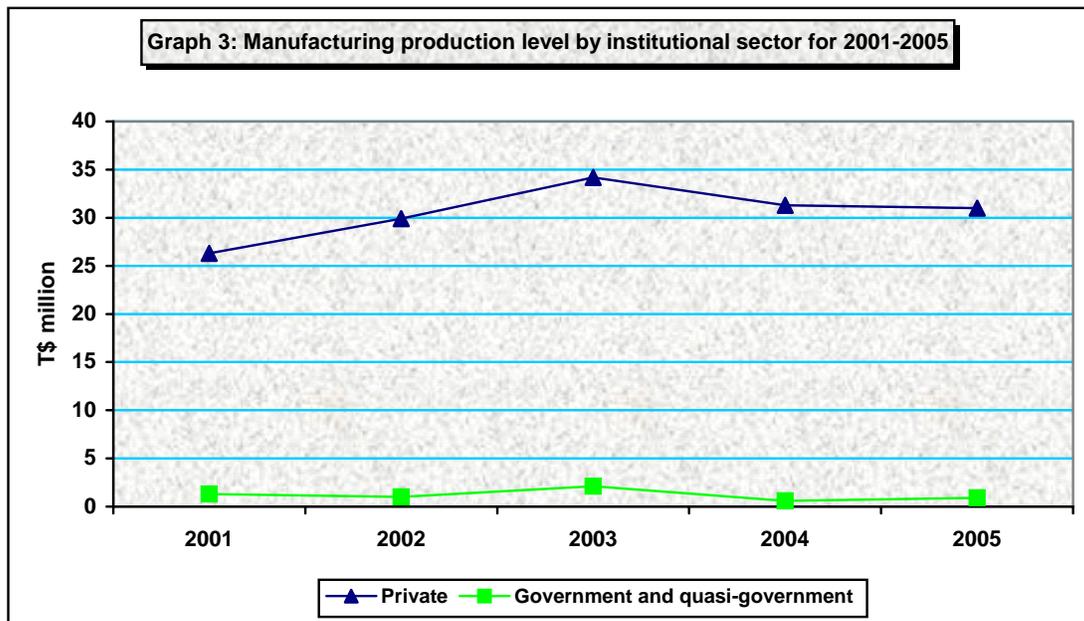
Island division	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	26,754	28,771	27,713	28,859	29,049
<b>2 Vava'u</b>	1,226	1,841	7,945	2,287	2,146
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	268	425	661	703	710
<b>Total</b>	<b>28,248</b>	<b>31,037</b>	<b>36,319</b>	<b>31,849</b>	<b>31,905</b>

T\$('000)

Source: Manufacturing survey, Statistics Dept.

In terms of institutional sector, the private sector showed the same level of production by 31 million pa'anga between 2004 and 2005. This resulted from the increase production by Government and Quasi offset by the decreases in production of private sector by 1%.

**Graph 3** below shows the trend of production level by institutional sector.



Source: Manufacturing survey, Statistics Dept.

The Private sector still dominates in terms of manufacturing production by 31million pa'anga (97%) for 2005 compared to 98% in 2004, while only about 1million or (3%) during 2005 compared to 2% of 2004, contributed by the government and quasi-government sector for the total Production.

**Table 4** below shows the contribution of the institutional sectors to manufacturing production.

**Table 4: Manufacturing production by Institutional sector for 2001-2005**

Institutional sector	2001	2002	2003	2004	2005
<b>1 Private</b>	26,342	29,994	34,255	31,298	31,041
<b>2&amp;3 Government and quasi-government</b>	1,289	1,043	2,064	551	864
<b>Total</b>	<b>27631</b>	<b>31037</b>	<b>36,319</b>	<b>31,849</b>	<b>31,905</b>

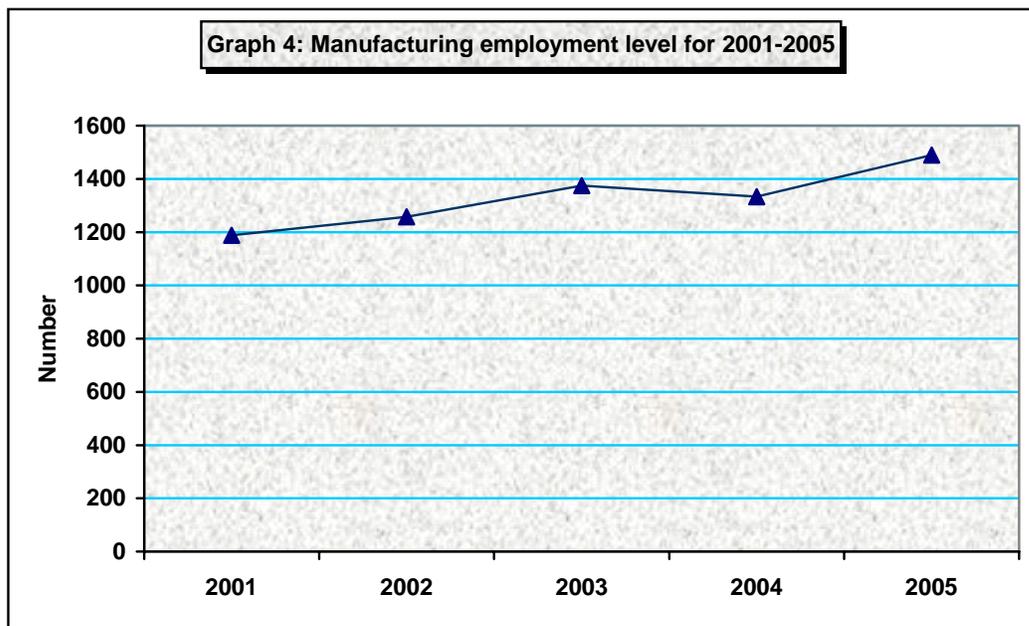
T\$('000)

Source: Manufacturing survey, Statistics Dept.

#### ☐ **Manufacturing employment**

A total of 1490 persons engaged in the manufacturing sector in 2005, representing a 11 % increased from 1333 employed in 2004. Over the years 2001-2005 the Manufacturing employment increased by 25 % and where Food products and Beverages increased by 3 %, Wood and Products of Wood 32%, Fabricated metal Products by 70% and Other Manufacturing Industries,39%.

**Graph 4** below shows the trend of manufacturing employment between the years 2001 to 2005.



Source: Manufacturing survey, Statistics Dept.

**Table 5** below shows the number of person in manufacturing by ISIC Division as from 2001 to 2005

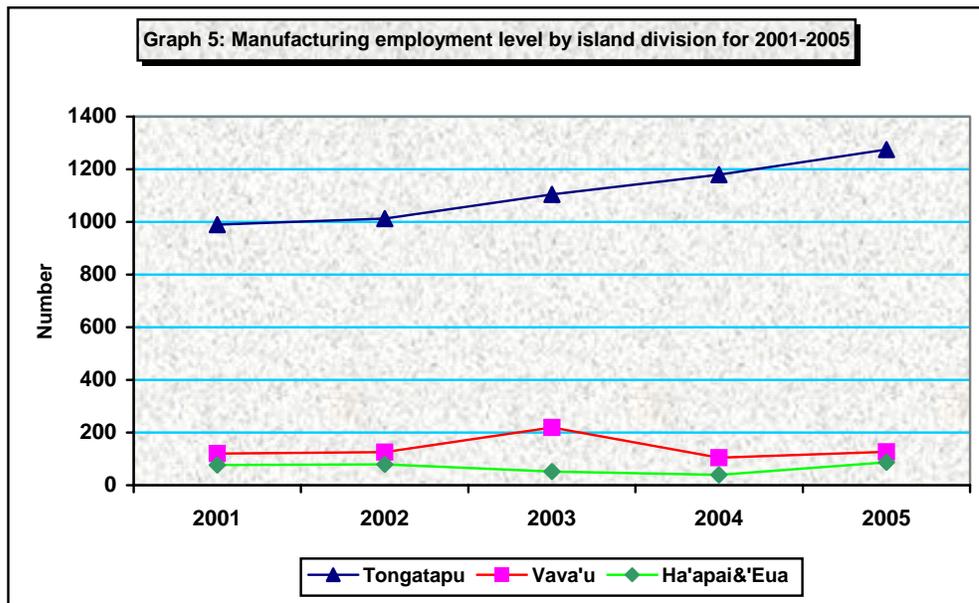
Out of every 100 persons employed in manufacturing in 2005, 57 were employed in the manufacturing of food products and beverages, 7 in wood and Products of Wood, 7 in publishing and printing, 5 in manufacturing of furniture, 5 with non-metallic mineral products and 14 with other manufacturing industries.

**Table 5: Manufacturing employment by ISIC division for 2001-2005**

ISIC division	<i>Number</i>				
	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	656	704	761	825	853
<b>20 Wood and products of wood</b>	80	77	87	79	106
<b>22 Publishing and printing</b>	109	109	108	102	104
<b>26 Non-metallic mineral products</b>	71	70	87	30	75
<b>28 Fabricated Metal Products</b>	37	37	36	41	63
<b>36 Manufacture of furniture</b>	83	90	102	70	77
<b>37 Other manufacturing industries</b>	152	171	194	186	212
<b>Total</b>	<b>1,188</b>	<b>1,258</b>	<b>1,375</b>	<b>1,333</b>	<b>1,490</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 includes 16, 17, 18, 19, 21, 24, 29, 30, 31 and 35

Between 2001 and 2005, employment in manufacturing in Tongatapu increased by 29 percent, 5% in number of people employing in Vava'u while Ha'apai and Eua (combined) also increased by 14%.



Source: Manufacturing survey, Statistics Dept.

By island division, as shown in table 6 below, Tongatapu had 1275 (85%) people employed in manufacturing in 2005 while Vava'u had 127(9%) and Ha'apai and 'Eua between them had 88 (6%).

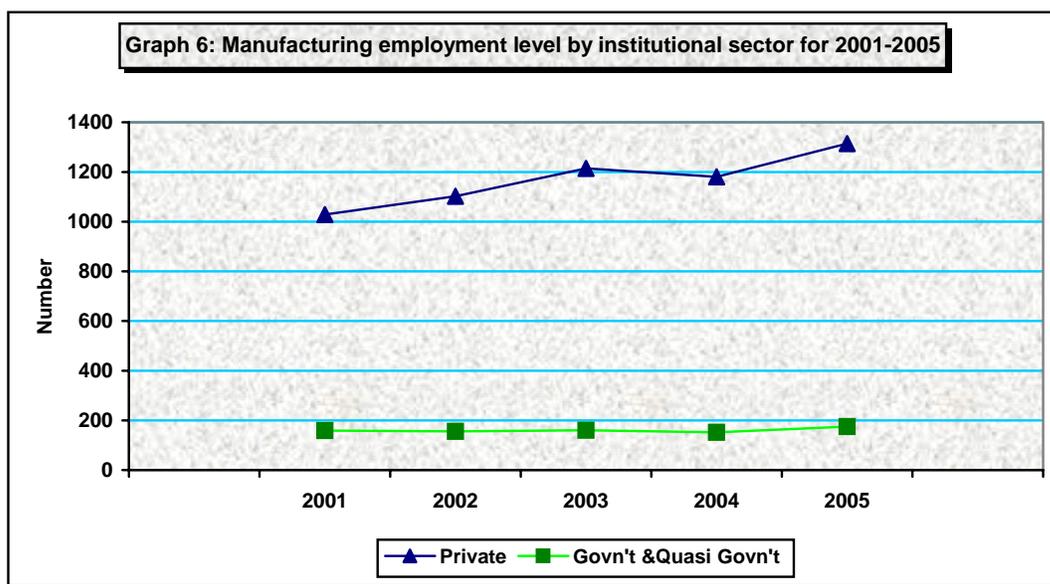
**Table 6** below shows more information on employment level by island division.

**Table 6: Manufacturing employment by Island division for 2001-2005**

Island division	<i>Number</i>				
	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	990	1,052	1,104	1,180	1,275
<b>2 Vava'u</b>	121	126	219	105	127
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	77	80	52	40	88
<b>Total</b>	<b>1,188</b>	<b>1,258</b>	<b>1,375</b>	<b>1,333</b>	<b>1,490</b>

Source: Manufacturing survey, Statistics Dept.

Employment in the private sector has increased by 11 % from 1181 in 2004 to 1315 in 2005. In particular, there were significant increases in the number employed in Food and Beverages, Wood & Products of Wood, Non Metallic Mineral Products and Fabricated Metal Products. The number employed in manufacturing by the government and quasi-government sector remained around 175 between 2001 and 2005.



Source: Manufacturing survey, Statistics Dept.

In percentage terms, the private sector shows a healthier life than the government sector.

**Table 7: Manufacturing employment by Institutional sector for 2001-2005**

Institutional sector	<i>Number</i>				
	2001	2002	2003	2004	2005
<b>1 Private</b>	1,029	1,103	1,215	1,181	1,315
<b>2&amp;3 Government and quasi-government</b>	159	155	160	152	175
<b>Total</b>	<b>1,188</b>	<b>1,258</b>	<b>1,375</b>	<b>1,333</b>	<b>1,490</b>

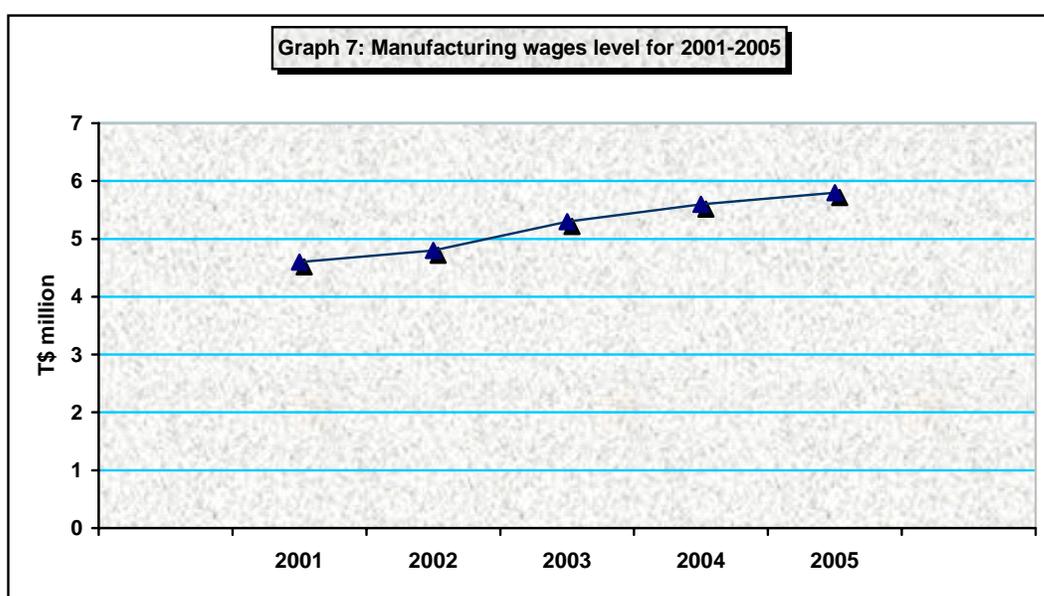
Source: Manufacturing survey, Statistics Dept.

□ **Manufacturing wages/salaries**

Total manufacturing wages and salaries increased by 25 % from year 2001 to 2005. Between 2004 and 2005 Food Products and Beverages decreased by 9% while Wood and Products of Wood increased by 39% and Manufacture of Furniture by 15%.

As shown in **Graph 7** below, total wages and salaries have increased from 4.6 million pa'anga in 2001 to 5.8 million in 2005. Over the same period, total wages/salaries increased by 35 % for the Food products and Beverages ,39% for Wood & Products of Wood, 45% for Fabricated metal products, 5% for Manufacturing of Furniture and 75% for Other Manufacturing Industries which offset by the decrease in ,Publishing and Printing by 15% and 25% for Non Metallic mineral products wages and salaries.

Graph 7 below shows the total manufacturing wages and salaries between the years 2001-2005.



Source: Manufacturing survey, Statistics Dept.

In 2005, Wages and Salaries for Food Products and Beverages industry remained around 3.0 million pa'anga, accounted 52% of the total wages and salaries, followed by publishing and printing by 0.5 million pa'anga (9%), and manufacture of furniture with 0.5 million pa'anga (9%).

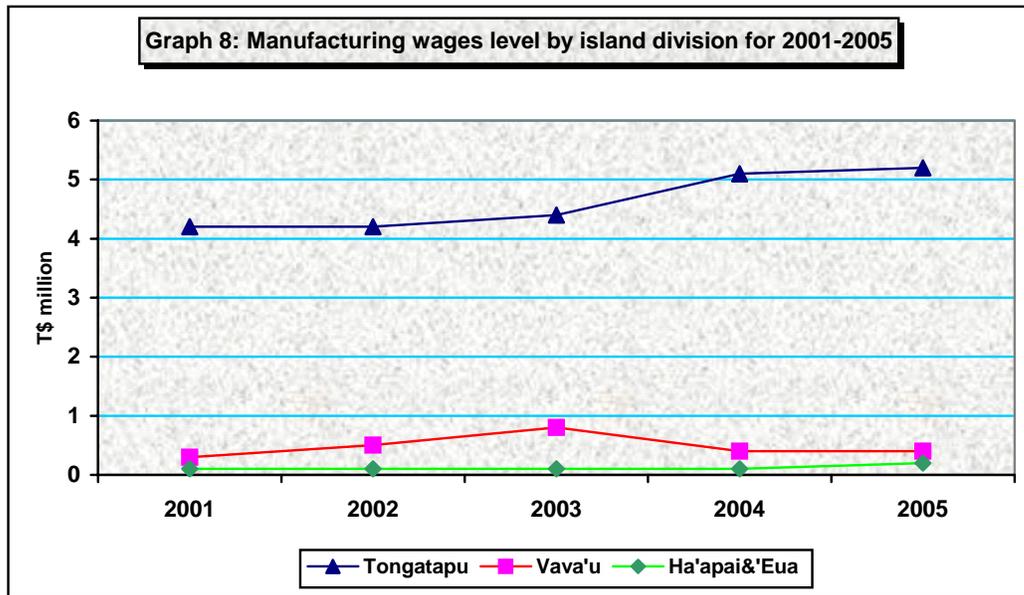
Table 8: **Manufacturing wages and salaries by ISIC division for 2001-2005**

ISIC division	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	2,238	2,511	2,804	3,037	3011
<b>20 Wood and products of wood</b>	230	274	225	231	320
<b>22 Publishing and printing</b>	642	648	610	562	544
<b>26 Non-metallic mineral products</b>	342	337	347	132	258
<b>28 Fabricated Metal Products</b>	172	144	140	371	250
<b>36 Manufacture of furniture</b>	490	390	555	447	516
<b>37 Other manufacturing industries</b>	490	553	673	826	857
<b>Total</b>	<b>4,604</b>	<b>4857</b>	<b>5,354</b>	<b>5,606</b>	<b>5,756</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 include 16,17,18,19,21,24,,29,30,31 and 35

In year 2005, about 5.2 million pa'anga (90%) of the total manufacturing wages and salaries were earned by those employed in Tongatapu, the main island, followed by Vava'u with around 0.4 million (6%) and only 0.2 million (4%) both for Ha'apai and 'Eua.

Graph 8 below shows the trend of manufacturing wages/salaries by island division for 2001-2005



Source: Manufacturing survey, Statistics Dept.

As shown on the **graph 9**, the wages and salaries of Private sector has gradually increasing from 3.9 million in 2001 to 4.1 million in 2002 to 4.7 million for 2003 and 5.0 million in 2004 and 5.1 in 2005.

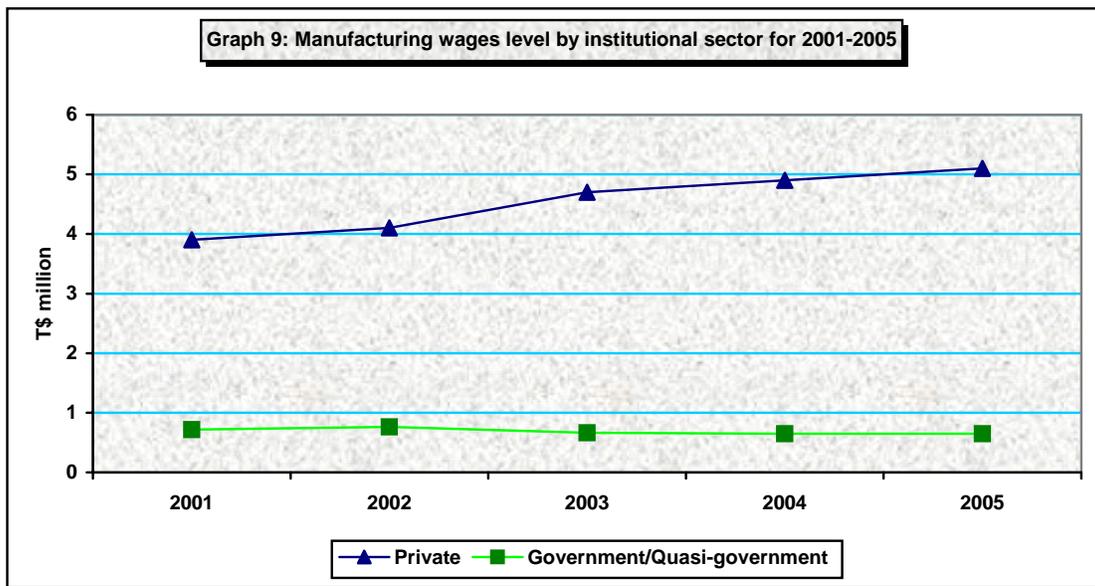
**Table 9: Manufacturing wages and salaries by Island division for 2001-2005**

Island division	T\$('000)				
	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	4,253	4,225	4461	5116	5173
<b>2 Vava'u</b>	257	510	772	399	374
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	95	121	121	91	209
<b>Total</b>	<b>4,604</b>	<b>4,857</b>	<b>5354</b>	<b>5606</b>	<b>5756</b>

Source: Manufacturing survey, Statistics Dept.

The increasing above occurred in Manufacture of Furniture, Wood and Products of Wood, and Other Manufacturing Industries.

Total wages and salaries paid by the government and quasi-government sector dropped from 0.7 million pa'anga in 2001 to 0.6 million in 2005.



Source: Manufacturing survey, Statistics Dept.

In 2005, manufacturing employees in the private sector received 5 million pa'anga (89%) in wages and salaries, while those in the government and quasi-government sector received 0.6 million pa'anga (11%).

**Table 10: Manufacturing wages and salaries by Institutional sector for 2001-2005**

*T\$('000)*

Institutional sector	2001	2002	2003	2004	2005
<b>1 Private</b>	3,886	4,094	4,689	4,956	5,107
<b>2&amp;3 Government and quasi-government</b>	719	763	665	650	649
<b>Total</b>	<b>4,604</b>	<b>4,857</b>	<b>5,354</b>	<b>5,606</b>	<b>5,756</b>

Source: Manufacturing survey, Statistics Dept.

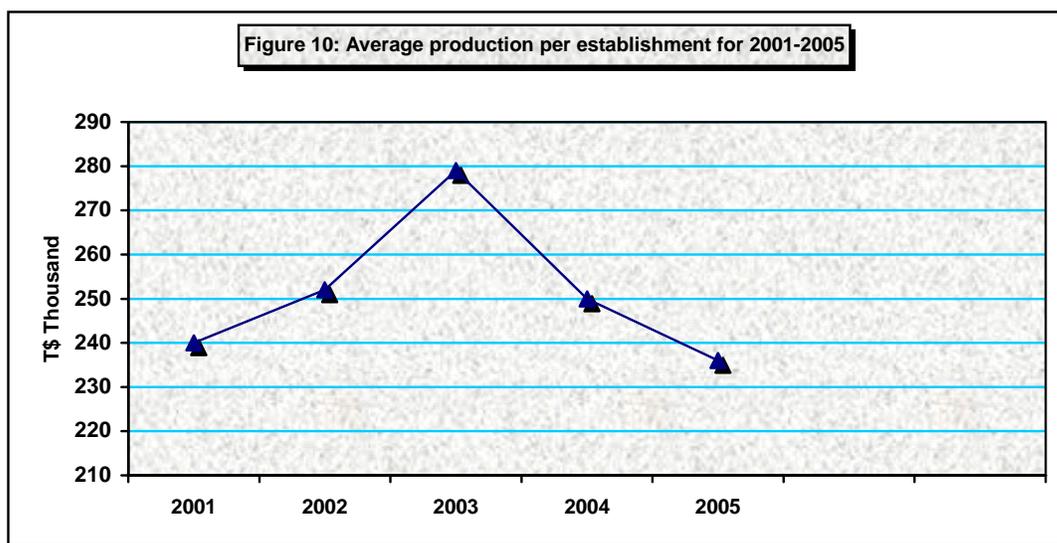
### 3 Complementary analysis

#### 3.1 Production level

- **Average production per establishment**

The average annual production per establishment for Tonga has decreased by 6% from 250 thousand pa'anga in 2004 to 236 thousand pa'anga in 2005. This showed in the group of Publishing and Printing by 5%, Chemical and Chemical Products by 61% and Manufacture of Furniture by 24%

**Graph 10** below shows the average annual production per establishment continued going up from 240 thousand pa'anga in 2001 to 250 thousand pa'anga in 2004 to 236 thousand pa'anga in 2005 where Non Metallic average production per establishment increased by 25%.



Source: Manufacturing survey, Statistics Dept.

By looking at industries level at year 2005, the average production per Establishment in the group of Chemicals and Chemical products decreased to 511 thousand pa'anga from 1301 thousand pa'anga. by 61% compares to its increases between 2003 and 2004.

More detailed information on average production per establishment is given in Table 4.7, 4.8 and 4.9 of the report.

**Table 3.1a: Average production per establishment by ISIC division for 2001-2005**

T\$('000)

ISIC division	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	310	294	358	268	270
<b>22 Publishing and printing</b>	423	380	327	347	328
<b>24 Chemicals and chemical products</b>	737	1,154	1028	1,301	511
<b>26 Non-metallic mineral products</b>	456	495	391	412	514
<b>28 Fabricated metal products</b>	234	240	115	150	170
<b>36 Manufacture of Furniture</b>	100	100	71	115	87
<b>37 Other manufacturing industries</b>	396	351	113	669	90
<b>Total</b>	<b>240</b>	<b>252</b>	<b>279</b>	<b>250</b>	<b>236</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 include 16, 17, 21, 18, 19, 20, 29, 30, 31, and 35

In terms of annual production by island division, Tongatapu produced above the national average per establishment, with an average of 393 thousand pa'anga , Vava'u got only 67 thousand pa'anga and Ha'apai and 'Eua combined to got an average ad an average production of 42 thousand pa'anga only.

**Table 3.1b: Average production per establishment by Island division for 2001-2005**

T\$('000)

Island division	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	319	350	315	365	393
<b>2 Vava'u</b>	56	63	265	71	67
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	24	39	55	43	42
<b>Total</b>	<b>240</b>	<b>252</b>	<b>279</b>	<b>250</b>	<b>236</b>

Source: Manufacturing survey, Statistics Dept.

In terms of institutional sector, average annual production kept going up from 2001 in a consistently trend compares to the Government and Quasi-government sector.

**Table 3.1c: Average production per establishment by Institutional sector for 2001-2005**

T\$('000)

Institutional sector	2001	2002	2003	2004	2005
<b>1 Private</b>	242	256	275	256	239
<b>2&amp;3 Government and quasi-government</b>	215	174	412	110	173
<b>Total</b>	<b>240</b>	<b>252</b>	<b>279</b>	<b>250</b>	<b>236</b>

Source: Manufacturing survey, Statistics Dept.

- **Average production per production worker**

The average production per production worker increased from 24 thousand in 2001 to 32 thousand pa'anga in year 2003 keeping down to 25 thousand in average for 2005. By industry level, some industries produced more than the national average production led by Non Metallic Mineral Products with 164 thousand, Food Products and Beverages by 27 thousand pa'anga.

Table 3.1d: Average production per production worker by ISIC division for 2001-2005

T\$('000)

ISIC division	2001	2002	2003	2004	2005
<b>15 Food product &amp; beverages</b>	30	28	36	25	27
<b>22 Publishing and Printing</b>	12	11	13	26	22
<b>24 Chemicals and chemical products</b>	113	178	146	52	20
<b>26 Non-metallic mineral products</b>	46	57	44	85	164
<b>28 Fabricated metal products</b>	47	49	23	38	17
<b>35 Other transport equipment</b>	16	13	14	36	11
<b>36 Manufactures of Furnitures</b>	23	20	14	31	24
<b>37 Other manufacturing industries</b>	80	71	15	15	9
<b>Total</b>	<b>24</b>	<b>30</b>	<b>32</b>	<b>27</b>	<b>25</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 include 16, 17, 18, 19, 20, 21, 30 and 31

In terms of island division, the value produced by production workers in Tongatapu averaged to 26 thousand pa'anga, followed by Vava'u, Ha'apai and 'Eua by 21 thousand pa'anga and 10 thousand pa'anga

Table 3.1e: Average production per production worker by Island division for 2001-2005

T\$('000)

Island division	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	30	33	30	27	26
<b>2 Vava'u</b>	15	21	47	25	21
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	7	10	17	25	10
<b>Total</b>	<b>24</b>	<b>30</b>	<b>32</b>	<b>27</b>	<b>25</b>

Source: Manufacturing survey, Statistics Dept.

Production worker in private sector produced an average production of 28 thousand pa'anga while government and quasi-government only produced 5 thousand pa'anga.

Table 3.1f: Average production per production worker by Institutional sector for 2001-2005

T\$('000)

Institutional sector	2001	2002	2003	2004	2005
<b>2001 Private</b>	31	34	35	30	28
<b>2&amp;3 Government and quasi-government</b>	8	7	13	4	5
<b>Total</b>	<b>24</b>	<b>30</b>	<b>32</b>	<b>27</b>	<b>25</b>

Source: Manufacturing survey, Statistics Dept.

### 3.2 Employment level

The total number of production worker involved in manufacturing industries has increased by 8 % from 1,181 number of production worker in 2004 compared to 1,281 in number of production worker in 2005.

In group of Food products and Beverages where employed 734 (57%) of total production workers, Chemicals and chemicals products employed 101 (8%), Wood and Products of wood employed 102(8%) Production Workers and Other manufacturing industries totaled up to 136(11%) workers.

**Table 3.2a: Number of manufacturing production workers by ISIC division for 2001-2005**

ISIC division	Number				
	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	519	582	612	728	734
<b>20 Wood and products of wood</b>	83	60	87	79	102
<b>22 Publishing and printing</b>	106	106	103	54	59
<b>24 Chemicals and Chemical Products</b>	26	26	28	99	101
<b>26 Non-metallic mineral products</b>	70	61	80	24	25
<b>28 Fabricated Metal Products</b>	35	34	34	28	69
<b>36 Manufacture of furniture</b>	68	75	80	52	55
<b>37 Other manufacturing industries</b>	94	106	122	117	136
<b>Total</b>	<b>1,001</b>	<b>1,050</b>	<b>1,146</b>	<b>1,181</b>	<b>1,281</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 include 16, 17, 18, 19, 21, 29, 30, 31 and 35

Tongatapu employed 1110 production worker (87%) of the total production worker, Vava'u got 103(8%) and 68 Production worker (5%) in Ha'apai and 'Eua.

**Table 3.2b: Number of manufacturing production workers by Island division for 2001-2005**

Island division	Number				
	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	879	922	937	1,059	1110
<b>2 Vava'u</b>	81	86	170	93	103
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	41	42	39	28	68
<b>Total</b>	<b>1,001</b>	<b>1,050</b>	<b>1,146</b>	<b>1,181</b>	<b>1,281</b>

Source: Manufacturing survey, Statistics Dept.

There were 1107 number of production worker (86%) worked for private sector and 174 (14%) employed by government and quasi-government.

**Table 3.2c: Number of manufacturing production workers by institutional sector for 2001-2005**

Institutional sector	Number				
	2001	2002	2003	2004	2005
<b>1 Private</b>	839	895	986	1,029	1107
<b>2&amp;3 Government and quasi-government</b>	162	155	155	152	174
<b>Total</b>	<b>1,001</b>	<b>1,050</b>	<b>1,146</b>	<b>1,181</b>	<b>1,281</b>

Source: Manufacturing survey, Statistics Dept.

### 3.3 Wages and salaries

The average annual weekly wage rate paid to production worker in manufacturing sector has gone down lower in 2005 by 67 pa'anga compares to 74 pa'anga in 2004. From **Table 3.3a** below, it shows that weekly wage rate of Fabricated metal products went down by 71%. The rest did not change much between 2004 and 2005 though Chemicals and Chemicals products group and Other Transport Equipment group also declined.

**Table 3.3a: Average weekly wage rate per production worker by ISIC division for 2001-2005**

		T\$(000)				
ISIC division		2001	2002	2003	2004	2005
2005	15 Food and Beverages	64.00	66.00	72.00	64.00	64.00
	20 Wood and Products of Wood	53.00	88.00	103.00	56.00	60.00
	22 Publishing and printing	107.00	108.00	102.00	67.00	60.00
	24 Chemicals & Chemical Products	50.00	55.00	55.00	81.00	58.00
	26 Non-metallic mineral products	93.00	87.00	74.00	77.00	72.00
	28 Fabricated metal products	85.00	76.00	73.00	197.00	57.00
	35 Other Transport Equipment	67.00	54.00	101.00	101.00	92.00
	36 Manufacture of furniture	98.00	74.00	102.00	113.00	113.00
	37 Other Manufacturing Products	79.00	52.00	30.00	29.00	83.00
<b>Total</b>		<b>72.00</b>	<b>71.00</b>	<b>73.00</b>	<b>74.00</b>	<b>67.00</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 include 16, 17, 18, 19, 21, 29, 30 and 31

Production workers stationed in Tongatapu earned an average weekly wage rate of 68 pa'anga, Vava'u earned 64 pa'anga then Ha'apai and 'Eua, 54 pa'anga.

**Table 3.3b: Average weekly wage rate per production worker by Island division for 2001-2005**

		T\$				
Island division		2001	2002	2003	2004	2005
<b>1</b>	<b>Tongatapu</b>	76.00	74.00	73.00	74.00	68.00
<b>2</b>	<b>Vava'u</b>	41.00	42.00	77.00	79.00	64.00
<b>3&amp;4</b>	<b>Ha'apai &amp; 'Eua</b>	42.00	53.00	59.00	56.00	54.00
<b>Total</b>		<b>72.00</b>	<b>71.00</b>	<b>73.00</b>	<b>74.00</b>	<b>67.00</b>

Source: Manufacturing survey, Statistics Dept.

By looking at sector level, government and quasi-government paid 69 pa'anga while private production workers earned only 67 pa'anga per week.

**Table 3.3c: Average weekly wage rate per production worker by Institutional sector for 2001-2005**

		T\$				
Institutional sector		2001	2002	2003	2004	2005
<b>1</b>	<b>Private</b>	69.00	66.00	72.00	73.00	67.00
<b>2&amp;3</b>	<b>Government and quasi-government</b>	85.00	95.00	79.00	82.00	69.00
<b>Total</b>		<b>72.00</b>	<b>71.00</b>	<b>73.00</b>	<b>74.00</b>	<b>67.00</b>

Source: Manufacturing survey, Statistics Dept.

## 4. Statistical Tables

Table 4.1: Manufacturing production by ISIC division for 2001-2005

T\$('000)

ISIC division	2001	2002	2003 Revised	2004	2005
<b>15 Food products and beverages</b>	15,795	17,265	22,249	18,514	19,772
<b>17 Manufacture of textiles</b>	346	285	354	306	256
<b>18 Manufacture of wearing apparel</b>	338	668	525	359	479
<b>19 Manufacture of leather products</b>	70	0	0	0	0
<b>20 Wood and products of wood</b>	102	42	1,119	79	257
<b>22 Publishing and printing</b>	1,269	1,141	1,311	1,389	1,313
<b>24 Chemicals and chemical products</b>	2,949	4,616	4,113	5,204	2,044
<b>26 Non-metallic mineral products</b>	3,190	3,462	3,520	2,062	4,109
<b>28 Fabricated metal products</b>	1,640	1,682	807	1,052	1,193
<b>35 Other transport equipment</b>	220	236	155	294	152
<b>36 Manufacture of furniture</b>	1,570	1,530	1,150	1,621	1,310
<b>37 Other manufacturing industries</b>	759	115	1016	969	1,020
<b>Total</b>	<b>28,240</b>	<b>31,037</b>	<b>36,319</b>	<b>31,849</b>	<b>31,905</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 includes 16, 21, 29, 30 and 31

Table 4.2: Manufacturing production by Island division for 2001-2005

T\$('000)

Island division	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	26,746	28,771	27,714	28,859	29,049
<b>2 Vava'u</b>	1,226	1,841	7,945	2,287	2,146
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	268	425	660	703	710
<b>Total</b>	<b>28,240</b>	<b>31,037</b>	<b>36,319</b>	<b>31,849</b>	<b>31,905</b>

Source: Manufacturing survey, Statistics Dept.

Table 4.3: Manufacturing production by Institutional sector for 2001-2005

T\$('000)

Institutional sector	2001	2002	2003	2004	2005
<b>1 Private</b>	26,951	29,994	34,255	31,298	31,041
<b>2&amp;3 Government and quasi-government</b>	1,289	1,043	2,064	551	864
<b>Total</b>	<b>28,240</b>	<b>31,037</b>	<b>36,319</b>	<b>31,849</b>	<b>31,905</b>

Source: Manufacturing survey, Statistics Dept.

Table 4.4: Percentage distribution of manufacturing production by ISIC division for 2001-2005

<i>Percentages</i>					
ISIC division	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	57.2	55.6	61.3	58.1	61.9
<b>17 Manufacture of textiles</b>	1.3	1.0	2.6	1.0	0.8
<b>18 Manufacture of wearing apparel</b>	1.2	2.2	1.0	1.1	1.5
<b>19 Manufacture of leather products</b>	0.3	0.0	1.4	0	0
<b>20 Wood and products of wood</b>	0.4	0.1	0	0.2	0.8
<b>22 Publishing and printing</b>	4.6	4.0	3.1	4.4	4.1
<b>24 Chemicals and chemical products</b>	10.7	14.9	3.6	16.3	6.4
<b>26 Non-metallic mineral products</b>	11.5	11.2	11.3	6.5	12.9
<b>28 Fabricated metal products</b>	5.9	5.4	9.6	3.3	3.7
<b>35 Other transport equipment</b>	0.8	0.8	0	1.0	0.5
<b>36 Manufacture of furniture</b>	5.7	4.9	0.4	5.1	4.1
<b>37 Other manufacturing industries</b>	0.5	0.4	2.8	3.0	3.3
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 includes 16,21, 29,30 and 31

Table 4.5: Percentage distribution of manufacturing production by Island division for 2001-2005

<i>Percentages</i>					
Island division	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	94.6	92.7	76.3	90.6	91.0
<b>2 Vava'u</b>	4.4	5.9	21.9	7.2	6.8
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	1.0	4.4	1.8	2.2	2.2
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: Manufacturing survey, Statistics Dept.

Table 4.6: Percentage distribution of manufacturing production by Institutional sector for 2001-2005

<i>Percentages</i>					
Institutional sector	2001	2002	2003	2004	2005
<b>1 Private</b>	95.3	96.6	94.3	98.3	97.3
<b>2&amp;3 Government and quasi-government</b>	4.7	3.4	5.7	1.7	2.7
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: Manufacturing survey, Statistics Dept.

Table 4.7: Average production per establishment by ISIC division for 2001-2005

T\$('000)

ISIC division	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	310	287	358	268	270
<b>17 Manufacture of textiles</b>	90	70	118	102	85
<b>18 Manufacture of wearing apparel</b>	30	60	37	32	44
<b>19 Manufacture of leather products</b>	40	0	0	0	0
<b>20 Wood and products of wood</b>	20	10	279	13	43
<b>22 Publishing and printing</b>	420	380	327	347	328
<b>24 Chemicals and chemical products</b>	740	1,150	1028	1,301	511
<b>26 Non-metallic mineral products</b>	460	490	391	412	514
<b>28 Fabricated metal products</b>	230	240	115	150	170
<b>35 Other transport equipment</b>	70	80	77	294	152
<b>36 Manufacture of furniture</b>	100	100	71	115	87
<b>37 Other manufacturing industries</b>	50	30	338	322	340
<b>Total</b>	240	252	279	250	236

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 includes 16, 21, 29, 30 and 31

Table 4.8: Average production per establishment by Island division for 2001-2005

T\$('000)

Island division	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	320	350	315	365	393
<b>2 Vava'u</b>	60	63	265	71	67
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	20	39	55	43	47
<b>Total</b>	240	252	279	250	236

Source: Manufacturing survey, Statistics Dept.

Table 4.9: Average production per establishment by Institutional sector for 2001-2005

T\$('000)

Institutional sector	2001	2002	2003	2004	2005
<b>1 Private</b>	240	256	275	256	239
<b>2&amp;3 Government and quasi-government</b>	220	174	412	110	173
<b>Total</b>	240	252	279	250	236

Source: Manufacturing survey, Statistics Dept.

Table 4.10: Average production per production worker by ISIC division for 2001-2005

	T\$('000)				
ISIC division	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	30	28	36	25	27
<b>17 Manufacture of textiles</b>	19	8	17	43	12
<b>18 Manufacture of wearing apparel</b>	11	20	14	8	14
<b>19 Manufacture of leather products</b>	6	0	0	0	0
<b>20 Wood and products of wood</b>	1	1	13	1	3
<b>22 Publishing and printing</b>	12	11	13	26	22
<b>24 Chemicals and chemical products</b>	113	178	147	52	20
<b>26 Non-metallic mineral products</b>	42	57	44	85	164
<b>28 Fabricated metal products</b>	47	49	24	38	17
<b>35 Other transport equipment</b>	16	13	14	36	11
<b>36 Manufacture of furniture</b>	23	20	14	31	24
<b>37 Other manufacturing industries</b>	8	71	23	15	15
<b>Total</b>	27	30	32	27	25

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 includes 16, 21, 29, 30 and 31

Table 4.11: Average production per production worker by Island division for 2001-2005

	T\$('000)				
Island division	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	29	33	30	27	26
<b>2 Vava'u</b>	15	21	47	25	21
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	7	10	17	25	10
<b>Total</b>	27	30	32	27	25

Source: Manufacturing survey, Statistics Dept.

Table 4.12: Average production per production worker by Institutional sector for 2001-2005

	T\$('000)				
Institutional sector	2001	2002	2003	2004	2005
<b>1 Private</b>	31	32	35	30	28
<b>2&amp;3 Government and quasi-government</b>	8	7	13	4	5
<b>Total</b>	27	30	32	27	25

Source: Manufacturing survey, Statistics Dept.

Table 4.13: Manufacturing employment by ISIC division for 2001-2005

ISIC division	Number				
	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	656	704	761	825	853
<b>17 Manufacture of textiles</b>	23	40	25	8	25
<b>18 Manufacture of wearing apparel</b>	49	55	60	52	49
<b>19 Manufacture of leather products</b>	14	14	14	0	0
<b>20 Wood and products of wood</b>	80	77	87	79	106
<b>22 Publishing and printing</b>	109	109	108	102	104
<b>24 Chemicals and chemical products</b>	31	29	31	30	30
<b>26 Non-metallic mineral products</b>	71	70	87	31	75
<b>28 Fabricated metal products</b>	37	37	36	41	63
<b>35 Other transport equipment</b>	15	19	12	10	14
<b>36 Manufacture of furniture</b>	83	90	102	70	77
<b>37 Other manufacturing industries</b>	20	14	52	85	94
<b>Total</b>	<b>1,188</b>	<b>1,258</b>	<b>1,375</b>	<b>1,333</b>	<b>1,490</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 includes 16, 21, 29, 30 and 31

Table 4.14: Manufacturing employment by Island division for 2001-2005

Island division	Number				
	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	990	1,013	1,104	1,188	1,275
<b>2 Vava'u</b>	121	165	219	105	127
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	77	80	52	40	88
<b>Total</b>	<b>1,188</b>	<b>1,258</b>	<b>1,375</b>	<b>1,333</b>	<b>1,490</b>

Source: Manufacturing survey, Statistics Dept.

Table 4.15: Manufacturing employment by Institutional sector for 2001-2005

Institutional sector	Number				
	2001	2002	2003	2004	2005
<b>1 Private</b>	1,029	1,103	1,215	1,181	1,315
<b>2&amp;3 Government and quasi-government</b>	159	155	160	152	175
<b>Total</b>	<b>1,188</b>	<b>1,258</b>	<b>1,375</b>	<b>1,333</b>	<b>1,490</b>

Source: Manufacturing survey, Statistics Dept.

Table 4.16: Percentage distribution of manufacturing employment by ISIC division for 2001-2005

<i>Percentages</i>					
ISIC division	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	55.2	55.9	55.3	61.8	57.2
<b>17 Manufacture of textiles</b>	1.9	3.3	1.8	0.6	1.6
<b>18 Manufacture of wearing apparel</b>	4.1	4.5	4.3	3.8	3.3
<b>19 Manufacture of leather products</b>	1.2	1.1	1.0	0	0
<b>20 Wood and products of wood</b>	6.7	6.3	6.3	5.8	7.1
<b>22 Publishing and printing</b>	9.2	8.9	7.9	7.6	7.0
<b>24 Chemicals and chemical products</b>	2.6	2.4	2.3	2.3	2.0
<b>26 Non-metallic mineral products</b>	6.0	5.7	6.3	2.2	5.0
<b>28 Fabricated metal products</b>	3.1	3.0	2.6	3.0	4.2
<b>35 Other transport equipment</b>	1.3	1.6	1.0	0.9	0.9
<b>36 Manufacture of furniture</b>	7.0	7.4	7.4	5.3	5.2
<b>37 Other manufacturing industries</b>	1.7	1.1	3.7	6.4	6.5
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 includes 16, 21, 29, 30 and 31

Table 4.17: Percentage distribution of manufacturing employment by Island division for 2001-2005

<i>Percentages</i>					
Island division	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	83.3	80.5	80.3	89.1	85.6
<b>2 Vava'u</b>	10.2	13.1	15.9	7.8	8.5
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	6.5	6.3	3.8	3.1	5.9
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: Manufacturing survey, Statistics Dept.

Table 4.18: Percentage distribution of manufacturing employment by Institutional sector for 2001-2005

<i>Percentages</i>					
Institutional sector	2001	2002	2003	2004	2005
<b>1 Private</b>	86.6	87.8	88.4	88.6	88.3
<b>2&amp;3 Government and quasi-government</b>	13.4	12.2	11.6	11.4	11.7
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: Manufacturing survey, Statistics Dept.

**Table 4.19: Number of manufacturing production workers by ISIC division for 2001-2005**

ISIC division	Number				
	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	519	580	612	728	734
<b>17 Manufacture of textiles</b>	19	35	20	7	21
<b>18 Manufacture of wearing apparel</b>	32	34	37	41	35
<b>19 Manufacture of leather products</b>	11	11	11	0	0
<b>20 Wood and products of wood</b>	83	60	87	79	102
<b>22 Publishing and printing</b>	106	106	103	54	59
<b>24 Chemicals and chemical products</b>	26	26	28	99	101
<b>26 Non-metallic mineral products</b>	70	61	80	24	25
<b>28 Fabricated metal products</b>	35	34	34	28	69
<b>35 Other transport equipment</b>	14	18	11	8	14
<b>36 Manufacture of furniture</b>	68	75	80	52	55
<b>37 Other manufacturing industries</b>	18	10	45	61	66
<b>Total</b>	<b>1,001</b>	<b>1,050</b>	<b>1,148</b>	<b>1,181</b>	<b>1,281</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 includes 16, 21, 29, 30 and 31

**Table 4.20: Number of manufacturing production workers by Island division for 2001-2005**

Island division	Number				
	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	879	922	939	1,059	1110
<b>2 Vava'u</b>	81	86	170	94	103
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	41	42	39	28	68
<b>Total</b>	<b>1,001</b>	<b>1,050</b>	<b>1,148</b>	<b>1,181</b>	<b>1,281</b>

**Table 4.21: Number of manufacturing production workers by Institutional sector for 2001-2005**

Institutional sector	Number				
	2001	2002	2003	2004	2005
<b>1 Private</b>	839	895	988	1,029	1,107
<b>2&amp;3 Government and quasi-government</b>	162	155	160	152	174
<b>Total</b>	<b>1,001</b>	<b>1,050</b>	<b>1,148</b>	<b>1,181</b>	<b>1,281</b>

Table 4.22: Manufacturing wages and salaries by ISIC division for 2001-2005

ISIC division	T\$('000)				
	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	2,238	2,296	2,804	3,037	3,011
<b>17 Manufacture of textiles</b>	57	114	101	90	100
<b>18 Manufacture of wearing apparel</b>	109	142	178	204	163
<b>19 Manufacture of leather products</b>	44	44	44	0	0
<b>20 Wood and products of wood</b>	230	274	225	231	320
<b>22 Publishing and printing</b>	642	648	610	562	544
<b>24 Chemicals and chemical products</b>	128	132	154	205	218
<b>26 Non-metallic mineral products</b>	342	337	347	132	258
<b>28 Fabricated metal products</b>	172	144	140	371	250
<b>35 Other transport equipment</b>	52	54	73	49	83
<b>36 Manufacture of furniture</b>	490	390	555	445	516
<b>37 Other manufacturing industries</b>	100	67	123	280	293
<b>Total</b>	<b>4,604</b>	<b>4,642</b>	<b>5,354</b>	<b>5,606</b>	<b>5,756</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 includes 16, 21, 29, 30 and 31

Table 4.23: Manufacturing wages and salaries by Island division for 2001-2005

Island division	T\$('000)				
	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	4,253	4,225	4,461	5,116	5,173
<b>2 Vava'u</b>	257	296	772	399	374
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	95	121	121	91	209
<b>Total</b>	<b>4,604</b>	<b>4,642</b>	<b>5,354</b>	<b>5,606</b>	<b>5,756</b>

Source: Manufacturing survey, Statistics Dept.

Table 4.24: Manufacturing wages and salaries by Institutional sector for 2001-2005

Institutional sector	T\$('000)				
	2001	2002	2003	2004	2005
<b>1 Private</b>	3,886	3,879	4,689	4,957	5,010
<b>2&amp;3 Government and quasi-government</b>	719	763	665	649	746
<b>Total</b>	<b>4,604</b>	<b>4,642</b>	<b>5,354</b>	<b>5,606</b>	<b>5,756</b>

Source: Manufacturing survey, Statistics Dept.

Table 4.25: Percentage distribution of manufacturing wages and salaries by ISIC division for 2001-2005

<i>Percentages</i>					
ISIC division	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	48.6	49.5	52.4	54.2	52.3
<b>17 Manufacture of textiles</b>	1.2	2.5	1.9	1.6	1.7
<b>18 Manufacture of wearing apparel</b>	2.4	3.1	3.3	3.6	2.8
<b>19 Manufacture of leather products</b>	1.0	0.9	0.8	0	0
<b>20 Wood and products of wood</b>	5.0	5.9	4.2	4.1	5.6
<b>22 Publishing and printing</b>	14.0	14.0	11.4	10.0	9.5
<b>24 Chemicals and chemical products</b>	2.8	2.8	2.9	3.7	3.8
<b>26 Non-metallic mineral products</b>	7.4	7.3	6.5	2.4	4.5
<b>28 Fabricated metal products</b>	3.7	3.1	2.6	6.6	4.3
<b>35 Other transport equipment</b>	1.1	1.2	1.4	1.0	1.4
<b>36 Manufacture of furniture</b>	10.6	8.4	10.4	7.9	8.9
<b>37 Other manufacturing industries</b>	2.2	1.4	2.2	4.9	5.1
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 includes 16,21,29,30 and 31

Table 4.26: Percentage distribution of manufacturing wages and salaries by Island division for 2001-2005

<i>Percentages</i>					
Island division	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	92.4	91.0	83.3	91.3	89.9
<b>2 Vava'u</b>	5.6	6.4	14.4	7.1	6.5
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	2.1	2.6	2.3	1.6	3.6
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: Manufacturing survey, Statistics Dept.

Table 4.27: Percentage distribution of manufacturing wages and salaries by Institutional sector for 2001-2005

<i>Percentages</i>					
Institutional sector	2001	2002	2003	2004	2005
<b>1 Private</b>	84.4	83.6	87.6	88.4	87.0
<b>2&amp;3 Government and quasi-government</b>	15.6	16.4	12.4	11.6	13.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: Manufacturing survey, Statistics Dept.

Table 4.28: Wages and salaries of production workers by ISIC division for 2001-2005

T\$('000)

ISIC division	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	1,739	1,985	2,309	2,440	2,444
<b>17 Manufacture of textiles</b>	57	114	79	90	92
<b>18 Manufacture of wearing apparel</b>	79	88	113	154	119
<b>19 Manufacture of leather products</b>	17	17	17	.0	0
<b>20 Wood and products of wood</b>	230	274	225	231	320
<b>22 Publishing and printing</b>	588	593	548	187	184
<b>24 Chemicals and chemical products</b>	68	75	80	414	305
<b>26 Non-metallic mineral products</b>	339	277	308	96	94
<b>28 Fabricated metal products</b>	155	134	130	288	204
<b>35 Other transport equipment</b>	49	51	58	42	67
<b>36 Manufacture of furniture</b>	347	288	425	306	324
<b>37 Other manufacturing industries</b>	74	27	70	327	313
<b>Total</b>	<b>3,742</b>	<b>3,924</b>	<b>4,362</b>	<b>4,575</b>	<b>4,466</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 includes 16, 21, 29, 30 and 31

Table 4.29: Wages and salaries of production workers by Island division for 2001-2005

T\$('000)

Island division	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	3,478	3,620	3,558	4,113	3,932
<b>2 Vava'u</b>	175	188	683	380	342
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	89	116	121	82	192
<b>Total</b>	<b>3,742</b>	<b>3,924</b>	<b>4,362</b>	<b>4,575</b>	<b>4,466</b>

Source: Manufacturing survey, Statistics Dept.

Table 4.30: Wages and salaries of production workers by Institutional sector for 2001-2005

T\$('000)

Institutional sector	2001	2002	2003	2004	2005
<b>1 Private</b>	3,023	3,161	3,697	3,925	3,844
<b>2&amp;3 Government and quasi-government</b>	719	763	665	650	622
<b>Total</b>	<b>3,742</b>	<b>3,924</b>	<b>4,362</b>	<b>4,575</b>	<b>4,466</b>

Source: Manufacturing survey, Statistics Dept.

Table 4.31: Average weekly wage rate for production worker by ISIC division 2001-2005

	T\$				
ISIC division	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	64	62	72	64	64
<b>17 Manufacture of textiles</b>	58	63	76	246	84
<b>18 Manufacture of wearing apparel</b>	48	50	59	72	65
<b>19 Manufacture of leather products</b>	29	30	30	0	0
<b>20 Wood and products of wood</b>	53	88	103	56	60
<b>22 Publishing and printing</b>	107	108	102	67	60
<b>24 Chemicals and chemical products</b>	50	55	55	81	58
<b>26 Non-metallic mineral products</b>	93	87	74	77	72
<b>28 Fabricated metal products</b>	85	76	73	197	57
<b>35 Other transport equipment</b>	67	54	101	90	92
<b>36 Manufacture of furniture</b>	98	74	102	36	113
<b>37 Other manufacturing industries</b>	79	51	30	89	91
<b>Total</b>	72	71	73	74	67

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 includes 16, 21, 29, 30 and 31.

Table 4.32: Average weekly wage rate for production worker by Island division 2001-2005

	T\$				
Island division	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	76	75	75	74	68
<b>2 Vava'u</b>	41	60	60	79	64
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	42	53	53	56	54
<b>Total</b>	72	71	73	74	67

Source: Manufacturing survey, Statistics Dept.

Table 4.33: Average weekly wage rate for production worker by Institutional sector 2001-2005

	T\$				
Institutional sector	2001	2002	2003	2004	2005
<b>1 Private</b>	69	67	68	73	67
<b>2&amp;3 Government and quasi-government</b>	85	95	95	82	69
<b>Total</b>	72	71	73	74	67

Source: Manufacturing survey, Statistics Dept.

Table 4.34: Number of manufacturing establishments by ISIC division for 2001-2005

ISIC division	Number				
	2001	2002	2003	2004	2005
<b>15 Food products and beverages</b>	51	60	62	69	73
<b>17 Manufacture of textiles</b>	4	4	3	3	3
<b>18 Manufacture of wearing apparel</b>	11	12	14	11	11
<b>19 Manufacture of leather products</b>	2	2	2	0	0
<b>20 Wood and products of wood</b>	4	4	4	6	6
<b>22 Publishing and printing</b>	3	3	4	4	4
<b>24 Chemicals and chemical products</b>	4	4	4	4	4
<b>26 Non-metallic mineral products</b>	7	7	9	5	8
<b>28 Fabricated metal products</b>	7	7	7	7	7
<b>35 Other transport equipment</b>	3	3	2	1	1
<b>36 Manufacture of furniture</b>	16	15	16	14	15
<b>37 Other manufacturing industries</b>	3	2	3	3	3
<b>Total</b>	<b>115</b>	<b>123</b>	<b>130</b>	<b>127</b>	<b>135</b>

Source: Manufacturing survey, Statistics Dept. Note: ISIC 37 includes 16, 21, 29, 30 and 31

Table 4.35: Number of manufacturing establishments by Island division for 2001-2005

Island division	Number				
	2001	2002	2003	2004	2005
<b>1 Tongatapu</b>	82	82	88	79	86
<b>2 Vava'u</b>	22	30	30	32	32
<b>3&amp;4 Ha'apai &amp; 'Eua</b>	11	11	12	16	17
<b>Total</b>	<b>115</b>	<b>123</b>	<b>130</b>	<b>127</b>	<b>135</b>

Source: Manufacturing survey, Statistics Dept.

Table 4.36: Number of manufacturing establishments by Institutional sector for 2001-2005

Institutional sector	Number				
	2001	2002	2003	2004	2005
<b>1 Private</b>	109	117	125	122	130
<b>2&amp;3 Government and quasi-government</b>	6	6	5	5	5
<b>Total</b>	<b>115</b>	<b>123</b>	<b>130</b>	<b>127</b>	<b>135</b>

Source: Manufacturing survey, Statistics Dept.

**Statistics Department**

CONFIDENTIAL

**QUARTERLY SURVEY OF MANUFACTURING PRODUCTION, EMPLOYMENT AND WAGES/SALARIES**

"INFORMATION BEING COLLECTED UNDER SECTION 8(3) OF STATISTICS ACT 1978 (ACT No. 31)"

QUARTER: \_\_\_\_

Establishment No.

Type of Organisation

ISIC Code

Island division

1. Name and Address:

of Establishment \_\_\_\_\_

**2. PRODUCTION**

	Product Code (Office Use)	Unit Of Measurement	QUARTER:					
			Month:		Month:		Month:	
			Quantity	(T\$)	Quantity	(T\$)	Quantity	(T\$)
2.1 Main Products								
a.								
b.								
c.								
d.								
2.2 Other than main products								
2.3 Receipts for work done for others								
<b>TOTAL</b>								

Comments:

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**3. EMPLOYMENT AND WAGES/SALARIES**

QUARTER: January-March								
Month:			Month:			Month:		
Sex	No.	Wages & Salaries Paid (T\$)	Sex	No.	Wages & Salaries Paid (T\$)	Sex	No.	Wages & Salaries Paid (T\$)
1	2	3	4	5	6	7	8	9
3.1 Category of Employees:								
a. Working Proprietors and Active Partners								
M			M			M		
F			F			F		
b. Production Workers:								
1. Regular/Full-time								
M			M			M		
F			F			F		
2. Part-time/Casual/Daily Paid								
M			M			M		
F			F			F		
c. Unpaid Family Workers								
M			M			M		
F			F			F		
d. All Other Employees								
M			M			M		
F			F			F		
<i>Total Male</i>								
M			M			M		
<i>Total Female</i>								
F			F			F		
No.			No.			No.		
<b>GRAND TOTAL</b>								
3.2 Memorandum item: Wages and Salaries								
	(T\$)			(T\$)			(T\$)	
Paid in kind; estimated value								

Note: M (Male) F (Female)

**4. DECLARATION:**

"I declare that the information furnished is complete and correct to the best of my knowledge."

**Name:** \_\_\_\_\_

**Position:** \_\_\_\_\_

**Date:** \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

**“CONFIDENTIAL”**

**INSTRUCTIONS FOR COMPLETING THE QUESTIONNAIRE ON QUARTERLY SURVEY  
OF MANUFACTURING PRODUCTION, EMPLOYMENT AND WAGES/SALARIES.**

**1. GENERAL**

Please note that the code number on the right hand corner of the questionnaire is your establishment's code number based on the Register of Establishments maintained in the Statistics Department. The information, being requested should relate only to the quarter referred to in the questionnaire.

**2. PRODUCTION**

**2.1** Please enter all the products produced by the establishment and for each such product please: -

- i) Specify the unit used for measuring each product (e.g. kg, dozen, litre etc.)
- ii) Enter the average quantity, in the unit stated in (I) above, of the products produced during each month of the reference quarter.
- iii) Enter the average ex-factory value of the quantity referred to in (II) above.

**2.2** Enter here the total value of the products other than the main ones mentioned in 2.1 manufactured by the establishment.

**2.3** Enter here the total value of work done by your establishment for others.

**3. EMPLOYMENT AND WAGES/SALARIES**

**For each category of employees (at 3.1 a to d) please: -**

- i) Enter in the column “No” either column 2,5 and 8 the total number of persons engaged in the establishment on the last payday of each month of the reference quarter. The family workers working on the last payday should be entered though they may not be paid.
- ii) Enter in column “Wages/Salaries Paid” either column 3, 6 and 9 the total amount of wages and salaries paid to employees by cash/cheque as compensation for the services rendered by them. This should include all payments made on account of bonuses, cost of living allowances and wages paid during vacation and sick leave for the reference period. Payments made to (1) regular/full-time and (2) part-time/casual and daily paid workers should be shown separately.

**3.1 Category of Employees: -**

- a) **Working proprietors and active partners:** are all individual proprietors and partners who are actively engaged in the work of the establishment.
- b) **Production workers:** are those who are directly engaged for pay in the production activities of the establishment. They may be full-time/regular or part-time/casual/daily paid.
- c) **Unpaid family workers:** refers to all such family members working in the establishment without regular pay at least one-third of the normal working time.
- d) **Other employees:** refers to all persons other than those listed above working in the establishment. This shall include administrative, technical and clerical personnel such as salaried Managers, Directors, Clerks, Typist, Bookkeepers, Administrative Supervisors, Salesmen, etc. Proprietors and partners shall be excluded in here but included under 3.1(a) above.

**3.2 Memorandum items:** (wages and salaries paid in kind) refers to the net cost to the employer, of those goods and services provided to employees free of charge or at a markedly reduced cost which are clearly of benefit to employees. The items included normally are food, beverages, tobacco, clothing etc. Note that an estimated value of these items will be acceptable.

## “MALU’I MO FAKAPULIPULI”

### NGAAHI FAKAHINOHINO ‘O E FOOMU FEHU’I FEKAU’AKI MO E SAVEA FAKAKUATA ‘O E NGAARI NGAUE’ANGA NGAOHI KOLOA.

#### 1. FAKALUKUFUA

Kataki ‘o fakatokanga’i ange ko e fika mo e fakamatala kotoa pe teke ‘omai ‘e tauhi fakapulipuli ia ‘i he potungaue pea ‘e ‘ikai ke to e faka’aonga’i ia ki ha ‘uhinga kehe. Ko e fika ko ia he ki’i puha he tuliki to’omata’u ‘i ‘olunga, ko e fika ia ho fale ngaue’anga ‘o fakatatau ki he lekooti ‘oku mau tauhi he potungaue ni. Ko e ngaahi fakamatala mo e fika kotoa pe ‘a ia ‘oku fai ki ai e faka’eke’eke ni kuo pau ke fekau’aki ia mo e kuata ‘oku fakaha atu he foomu fehu’i.

#### 2. KOLOA NA’E NGAOHI

2.1 Kataki ‘o lisi mai e ngaahi koloa kehekehe kotoa pe na’e ngaohi ‘i ho fale ngaue lolotonga e kuata ko ia ‘oku fai ki ai e faka’eke’eke pea kataki ‘o: -

I) Fokotu’u mai he kolomu 2 ‘a e ‘iuniti takitaha ‘oku ngaue’aki ki hono fua/lau ‘o e koloa takitaha na’e ngaohi ‘i he ngaue’anga, (hange ko e kilokalami, toseni, lita etc.)

II) Fakafonu mai he kolomu 3, 5 mo e 7 ‘a e lahi ‘o e koloa takitaha fakatatau ki he ‘iuniti ‘oku ha ‘i he I) ‘i ‘olunga na’e ngaohi ‘i he ngaue’anga lolotonga e mahina takitaha ‘o e kuata ‘oku fai ki ai e faka’eke’eke.

III) Fakafonu ‘i he kolomu 4, 6 mo e 8 ‘a e mahu’inga e koloa takitaha na’e ngaohi ‘i he ngaue’anga fakatatau ki he lahi ‘oku ha ‘i he II) ‘i ‘olunga lolotonga e mahina takitaha ‘o e kuata ko ia.

2.2 Fakafonu mai e mahu’inga fakakatoa e ngaahi koloa na’e ngaohi kehe mei he koloa ‘oku ha ‘i he 2.1.

2.3 Fakafonu e mahu’inga fakakatoa e pa’anga na’e ma’u mai ‘i ha ngaue kehe na’e fai ‘i he ngaue’anga (hange ko e ngaue konituleki).

#### 3. KAU NGAUE MO E VAHENGANGA

‘I hono fakakalalalasi ‘o e kau ngaue (‘i he 3.1 (a ki he h)) kataki: -

i) Hanga ‘o fakafonu ange ‘i he kolomu 2, 5 mo e 8 ‘a e tokolahi fakakatoa e kau ngaue he mahina takitaha ‘o e kulupu takitaha ‘o e kau ngaue ‘o fakatatau ki hono fakakalalalasi ‘oku ha atu.

ii) Fakafonu ange he kolomu 3, 6 mo e 9 ‘a e fakakatoa e pa’anga vahengana ne ‘oange ki he kulupu takitaha ‘o e kau ngaue lolotonga e mahina takitaha ‘o e kuata.

#### 3.1 Kulupu ‘o e kau ngaue: -

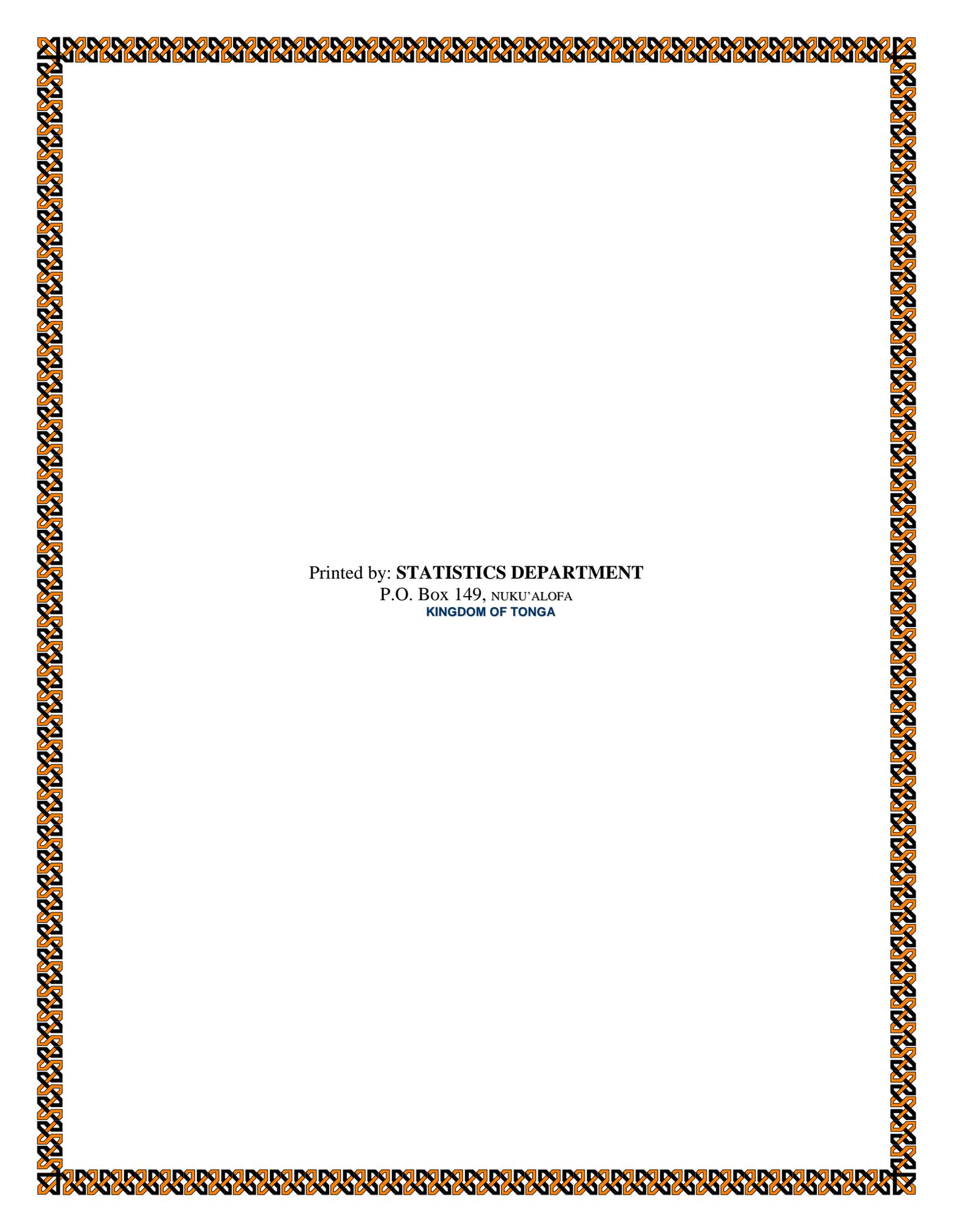
a) Tokotaha ‘oku ‘o’ona e ngaue’ang: ‘oku ‘uhinga ‘eni ki he tokotaha ‘oku ‘o’ona e ngaue’anga pea ne toe ngaue foki ki hono ngaohi e koloa.

e) Kau ngaue ‘oku nau ngaohi e koloa: ‘oku ‘uhinga eni ki he kau ngaue ‘oku nau tautonu ki hono ngaohi e koloa ko ia ‘i he ngaue’anga, hange ko e kau ngaue tu’upau/fakataimi/lau’aho (kau ta’oma, kau ta piliki etc.)

f) Memipa ‘o e famili ‘oku ngaue ‘o ‘ikai ha vahenga: ‘oku ‘uhinga ‘eni ki ha memipa ‘o e famili ‘oku ngaue ‘i he ngaue’anga ‘o ‘ikai ha totongi tu’upau ‘o ‘ikai toe si’i hifo ‘i he vahetolu ‘e taha ‘o e houa ngaue tu’upau.

h) Toenga ‘o e kau ngaue: ‘oku ‘uhinga ‘eni ki he kau ngaue ‘oku ‘ikai ke nau kau ‘i he fa’ahinga ‘o e kau ngaue ‘oku ha atu ‘i ‘olunga, ki hono ngaohi ‘o e koloa, (hange ko e kalake, tauhitohi, le’o, faka’uli, faitaipa etc.) ka ‘oku nau kau he ma’u vahenga he ngaue’anga.

3.2 Ngaahi koloa ‘oku foaki ‘ikai ha totongi: ‘oku ‘uhinga ‘eni ki hono fakamahu’inga’i ki he tokotaha ‘oku ‘a’ana ‘a e ngaue’anga ‘a e ngaahi koloa pe ko e ngaahi ‘aonga ‘o e ngaue’anga ki he kau ngaue ‘o ‘ikai ha totongi pe ko e totongi ‘oku ma’ulalo ange ‘i he totongi totonu (lau ki ai ‘a e me’atokoni, inu, tapaka mo e vala).



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