



Barbados Productivity Council: Opportunities for the Repositioning of the Manufacturing Sector in Barbados

Interim Report

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Opportunities for the Repositioning of the Manufacturing Sector in Barbados: Interim Report

Preamble

The Policy Studies Unit of Barbados Productivity Council, in seeking to identify opportunities for the resuscitation of the manufacturing sector in Barbados, has contracted the Sir Arthur Lewis Institute of Social and Economic Studies (SALISES) to undertake a project to establish the current state of the sector, and produce a compendium of economic policies to enhance its contribution to the economy. In accordance with the Consultant Services Agreement, SALISES submits the following Interim Report.

Background

The main objectives of the project *The Opportunities for the Repositioning of the Manufacturing Sector in Barbados* are:

1. Provide a profile of the sector including size of company, number of employees, number and type of products, vintage and capacity of machinery, education and skills of management and technical staff, financial status, and legal status, as well as the scope for re-engineering and introduction of new technologies
2. Assess the performance of the sector versus regional competitors
3. Assess the current business process environment
4. Identify the root causes of the issues facing the sector
5. Examine the opportunities for re-engineering, export marketing, technology transfer, capacity for technology adoption and assimilation, the ability to produce other products, innovation and alternative sources of financing
6. Produce a compendium of economic and other policy proposals to reinvigorate and competitively position the sector. It is envisaged that such policy proposals will relate to finance, human resource development, marketing, technical assistance, and the regulatory/legislative environment.

In seeking to accomplish these objectives, the methodology for the project will include four main components:

- An extensive review of the literature and data available in the area over the past two (2) decades.
- Interviews with key stakeholders to address the objectives outlined in 3 and 4 above.
- A sample survey of establishments and site visits.
- An analysis of the data obtained in the previous components to fully address objectives 5 and 6.

The following interim report provides an overview of the current status of the first three (3) components of the project.

Status Report for Review of Literature and Data

The literature review is being structured in the following format:

- 1. Manufacturing in a globalized environment**
 - 1.1. Interrogate definitions used globally, regionally and locally
 - 1.2. Contextualise manufacturing in its global context- trade agreements, directions and size of flows, historical context
- 2. Manufacturing sector in SIDS**
 - 2.1. Compare and contrast manufacturing in developed and developing countries
 - 2.2. Locate SIDS within this regime
 - 2.3. Locate Caribbean and specifically Barbados within this regime
- 3. Origin, characteristics, status and importance of manufacturing sector in Barbados**
 - 3.1. History of manufacturing in Barbados
 - 3.2. Current position of overall manufacturing vis a vis rest of Caribbean (labour, capital, technology, government policy/support)
 - 3.3. General overview of government policy and support in Barbados
 - 3.4. Current status by sector (labour, capital, technology, specific/strategic government support)
 - 3.5. Financing manufacturing development
 - 3.6. Special focus on small scale manufacturing
- 4. A framework for operations strategy in manufacturing:**
 - 4.1. From customer needs to order fulfilment (new product/current product; quality; price; speed; flexibility; competitive dimensions; post sales and enterprise capabilities in finance, marketing & operations with focus on people, processes, technology)
 - 4.2. Expected that this will draw on academic literature in the area
- 5. Competitiveness and sustainability**
 - 5.1. Barbados and Caribbean data (see Rojas-Suarez & Thomas (eds.))
 - 5.2. Academic literature
 - 5.3. Manufacturing execution systems

- 5.3.1. to identify suitable growth sectors to support
- 5.3.2. write up on importance and relevance of incubators/clusters for strategic industry growth
- 5.3.3. The necessity for an enabling environment
- 5.3.4. current status of strategic partners and cooperation efforts
- 5.3.5. Current status of Laws/rules regulations and identification of hindrances
- 5.4. Performance measurements
 - 5.4.1. Identify performance measurements to match strategy
 - 5.4.2. relevance of pinpointing problem areas
 - 5.4.3. linking real drivers to overall business performance
- 5.5. Importance of continuous improvement - Revising Systems/Reengineering
 - 5.5.1. write up on systems and processes
 - 5.5.2. the value added of reengineering
 - 5.5.3. linking continuous improvement to improving customer satisfaction

The data sources being utilised to complement the applied and theoretical research in the area are:

- BSS Annual Survey of Industrial Establishments
- BIDC Information on Manufacturers
- National Account Information
- Labour Force Survey (Continuous Labour Force Sample Survey)
- Export-Import Data
- Central Bank of Barbados (Annual Digest of Statistics)
- CARICOM Statistical Database
- ECLAC Statistical Database
- United Nations Comtrade Database

In reviewing the basic data to emerge from the Comtrade Database, the table below outlines the value of exports and net trade for the manufacturing sector in Barbados for 1997 and 2006. A breakdown by subsector is shown in Appendix 1. Overall, manufactured exports from Barbados account for 0.004% of world exports, while imports account for 0.013% of world imports.

Table 1: Total Manufacturing Trade (2006) (Source: United Nations Comtrade Database)

Industry	All Manufacturing (1997)	All Manufacturing (2006)
Exports in value ('000)	US\$282,929	US\$441,214
Imports in value ('000)	US\$995,206	US\$1,628,555
Net trade in value ('000)	-US\$712,277	-US\$1,187,341
Net Trade (X-M)/(X+M) * 100	-55.7	-57.4
Growth of exports in value (%) 1997 to 2006	na	+56.0%
Growth of imports in value (%) 1997 to 2006	na	+63.6%

na: Not Applicable

Status Report for Interviews with Stakeholders and Key Informants

In seeking to garner information concerning the sector, it is considered pertinent that persons involved be interviewed. To date, twenty-five (25) key agencies/informants have been identified, categorised into support providers, service providers, and key informants.

Table 2: List of Interviewees

Stakeholder Agency/Key Informant	Category
1. Barbados Institute of Management and Productivity (BIMAP)	Support Provider- Training
2. Barbados Community College	Support Provider- Training
3. Samuel Jackman Prescott Polytechnic	Support Provider- Training
4. Barbados Vocational Training Board	Support Provider- Training
5. Barbados TVET Council	Support Provider- Training
6. Barbados National Productivity Council	Support Provider- Technical Assistance
7. Barbados Investment Development Corporation	Support Provider- Technical Assistance
8. Caribbean Export Development Agency	Support Provider- Technical Assistance
9. Ministry of Economic Affairs, Economic Empowerment, Innovation, Trade, Industry and Commerce	Support Provider- Government
10. Invest Barbados	Support Provider- Quasi-Government
11. Enterprise Growth Fund Limited	Support Provider- Finance
12. FundAccess	Support Provider- Finance
13. Barbados Bankers Association	Support Provider- Finance
14. Barbados Youth Business Trust	Support Provider- Finance
15. Barbados Manufacturing Association	Support Provider- Advocacy
16. Small Business Association	Support Provider- Advocacy
17. Barbados Chamber of Commerce and Industry	Support Provider- Advocacy
18. Representative of Freightage Industry	Service Provider
19. Barbados Port Authority	Service Provider
20. Dr. Keith Nurse	Key Informant- Trade
21. CARICOM Secretariat	Key Informant- Regional Policy
22. Caribbean Development Bank	Key Informant- Regional Policy
23. Mr. Anthony Johnson	Key Informant- National Policy
24. Mr. Shane Johnson, Bakers Choice	Key Informant- Manufacturer
25. Mr. Ralph Williams	Key Informant- Manufacturer
26. Mr. James Husbands	Key Informant- Manufacturer
27. Mr. Basil Forbes	Key Informant- Manufacturer
28. Mr. Randolph Sandiford	Key Informant- Manufacturer
29. Mr. Peter Miller	Key Informant- Manufacturer
30. Mr. Frank DeSilva	Key Informant- Manufacturer
31. CTUSAB	Key Informant- Labour
32. Barbados Employers Confederation	Key Informant- Employers
33. Representative of Wholesale/Retail Sector (Probably the Food Group from BCCI)	Key Informant- Demand

In relation to the objectives outline from the Terms of Reference (TOR), the following areas are to be covered by the interviews:

1. Assess the current business process environment
2. Identify the root causes of issues affecting the sector
3. Investigate opportunities for re-engineering, export marketing, technological transfer and assimilation, ability to product other products, innovation and alternative sources of financing
4. Suggested policy proposals on finance, human resource development, marketing, technical assistance, and the regulatory/legislative environment

Both SWOT (strengths, weaknesses, opportunities, threats) and PESTLE (political, economic, social, technological, legislative, environmental) issues will be covered. The rationale for the inclusion of these interviews in the research methodology is that the survey instrument has a number of issues that will need further investigation not possible through that medium. These issues include:

1. A low level of participation in representative organisations such as BMA. Underlying causes will need to be probed.
2. As 1., in relation to a low level of utilisation of support institutions/programs
3. Quality of workforce: strengths versus weaknesses
4. Access to finance, supply and demand, costs, taxes/duties/levies, equipment/infrastructure, competition, markets (import/export)
5. Utilisation/effectiveness of trade and investment agreements
6. Productivity and performance management
7. Role of Government incentives

These issues will be analysed in a matrix fashion as it relates to labour and capital:

Table 3: Matrix of SWOT and PESTLE for Interviews

		Political	Economic	Social	Technological	Legislative	Environmental
Descriptive of Current Situation	Strengths						
	Weaknesses						
Prescriptive of Future Actions	Opportunity						
	Threats						

Interview Schedules

Separate interview schedules have prepared for the separate groups to be included in the study:

1. Support Providers: Training, Technical Assistance, Finance, Advocacy, Government
2. Service Providers

3. Key Informants: Trade, National Policy, Regional Policy, Manufacturers, Labour, and Demand

The specific areas for each schedule to cover are as follows, and relate to the matrix above.

1. Support Providers:
 - a. Training: Human resource issues.
 - b. Technical Assistance: Related to marketing, production, and training. Utilisation of services.
 - c. Finance: access, repayment, risk.
 - d. Advocacy: general sector issues.
 - e. Government: general sector issues as they relate to the legislative/regulatory framework.
2. Service Providers: issues related to the supply and distribution of supplies and finished goods
3. Key Informants:
 - a. Trade: macro view of the trade regime as it relates to problems and prospects for the development of the sector.
 - b. National Policy: national overview.
 - c. Regional Policy: regional overview.
 - d. Manufacturers: establishment view.
 - e. Labour: human resources view
 - f. Demand: demand for local goods view.

These interviews are currently in the process of being confirmed.

Status Review for Establishment Data and Sample Survey

Preliminary investigations have revealed that there are currently 480 VAT registered manufacturing companies in Barbados, out of a total of 8325 active VAT registrants (VAT Office, 2008). Of these 480 companies, 114 (23.75%) were incorporated under the Companies Act (Cap. 308) and submitted tax returns in 2007. Analysis of the data from individual tax returns for 2007 for these 114 companies revealed that this element of the sector (incorporated companies) had a total income of BDS\$969 million, of which BDS\$364 million was net income (5.6% of GDP at factor cost (2006)). In terms of expenditure, these companies spent a total of BDS\$94 million on labour (see table below), approximately 42.6% of total expenditure. However the data reveals a high level of skewness if the differences between the means and medians are considered, suggesting that greater attention be paid to the median values as an indicator of the activity of the manufacturing sector.

Table 4: Selected Financials for Incorporated Manufacturing Companies (2007) (Source: Department of Inland Revenue)

Variable	Mean (BDS\$)	Median (BDS\$)	Sum (BDS\$ millions)
Labour Costs	1,270,130	369,741	94
Total Income	8,502,451	713,167	969
Net Income	3,199,532	36,302	364
Total Current Assets	17,753,629	430,600	2,023
Total Current Liabilities	5,485,523	286,773	625
Total Fixed Assets	3,053,239	50,100	348
Investments	8,152,425	4,180	317
Other Long Term Assets	17,599,654	108,438	879
Net Assets	24,664,408	538,315	2,811

In addition to the data available from the Department of Inland Revenue, data has also been sourced from the Barbados Statistical Service (BSS). The BSS provided data on small manufacturing companies (less than 25 employees) derived from periodic surveys of establishments. The total number of companies responding was 190 (40% of the sector). The data revealed that these companies employed a total of 1,305 persons, with a mean of 7

employees, a median of 5 employees, and a mode of 2 employees. Company age ranged from 42 years to 6 years, with a mean age of 18 years.

This data will be useful in comparing to the results of the survey of establishments currently being undertaken.

The survey instrument was constructed with reference to the terms of reference (TOR) for the project. The questionnaire was then reviewed by the project team and alterations made to enhance completion by interviewees. Pilot interviews were undertaken to clarify any issues and the survey instrument was altered to address a few concerns. Following the completion of the survey instrument, interviewers were trained to conduct the survey by the senior research associate.

Following the training of interviewers, each was allocated a list of establishments to interview. For the most part contact was made initially via telephone, and if a meeting date and time was confirmed, interviewees were sent a fax or email to confirm this. The list of establishments to be interviewed was randomly drawn by sector utilising a merged database of contacts from both the Productivity Council and SALISES which included basic information on 400 establishments. The database was cleaned of duplicates and errors and sorted by random numbers and sector to enable a stratified sample which would mirror the profile of the manufacturing sector. The sector count and targets for the survey are shown in the table below. As the table shows, the sample frame utilised comprises 83% of all manufacturing companies in Barbados that are VAT registered.

Table 5: Manufacturing Sub-sectors: Frequency and Target Sample Size

Sector Name	Sector Count	Target Amount
Food, Beverages & Tobacco	100	50
Paper Products, Print & Publishing	57	30
Textiles, Apparel & Leather	51	25
Wood, Wooden Prod. & Fittings	49	25
Handicraft	29	12
Other Manufacturing	24	12
Chemicals & Chemical Products	23	12
Fabricated Metal Products	23	12
Non-Metallic Mineral Products	23	12
Rubber & Plastic Products	12	6
Electronic Components & Devices	5	3
Precision Instruments	4	3
TOTAL	400	202

The survey commenced at the end of November 2008. Difficulties emerged in setting appointments due to the Christmas season and as of 7th January 2009, only 9 fully completed surveys were returned. However, it appears that these difficulties have now subsided and interviewers are progressing only slightly behind schedule.

APPENDIX 1: Manufacturing Trade for Barbados (2006)

Table 6: Trade Performance: Exports and imports of Barbados (2006, in USD thousands) (Source: United Nations Comtrade Database)

Industry	Exports in value	Imports in value	Net trade in value	Exports as a share of total exports (%)	Imports as a share of total imports (%)	Exports as a share of world exports (%)	Imports as a share of world imports (%)	Growth of exports in value (% p.a.)	Growth of imports in value (% p.a.)	Net Trade (X-M)/(X+M) * 100
00 All industries	441,214	1,628,555	-1,187,341	100	100	0.0037	0.0133	20	13	-57.4
27 Mineral fuels, oils, distillation products, etc	139,811	302,367	-162,556	31.689	18.567	0.0079	0.0166	52	47	-36.8
85 Electrical, electronic equipment	42,776	141,887	-99,111	9.695	8.712	0.0026	0.0084	29	13	-53.7
22 Beverages, spirits and vinegar	30,634	40,434	-9,800	6.943	2.483	0.0449	0.0582	8	8	-13.8
30 Pharmaceutical products	21,908	50,031	-28,123	4.966	3.072	0.0076	0.017	12	8	-39.1
17 Sugars and sugar confectionery	19,851	13,285	6,566	4.499	0.816	0.067	0.0436	1		19.8
71 Pearls, precious stones, metals, coins, etc	18,549	21,689	-3,140	4.204	1.332	0.0079	0.0096	73	4	-7.8
25 Salt, sulphur, earth, stone, plaster, lime and cement	16,811	5,865	10,946	3.81	0.36	0.0572	0.0161	10	16	48.3
90 Optical, photo, technical, medical, etc apparatus	14,503	27,706	-13,203	3.287	1.701	0.0039	0.0073		12	-31.3
38 Miscellaneous chemical products	13,226	16,395	-3,169	2.998	1.007	0.0124	0.015	6	4	-10.7
15 Animal,vegetable fats and oils, cleavage products, etc	10,850	7,846	3,004	2.459	0.482	0.0245	0.0175	18	8	16.1
73 Articles of iron or steel	10,796	43,018	-32,222	2.447	2.641	0.0052	0.0207	13	12	-59.9
48 Paper & paperboard, articles of pulp, paper and board	9,428	37,666	-28,238	2.137	2.313	0.0064	0.0252	3	7	-60
91 Clocks and watches and parts thereof	9,331	16,840	-7,509	2.115	1.034	0.0343	0.0618		20	-28.7
84 Boilers, machinery; nuclear reactors, etc	8,117	177,925	-169,808	1.84	10.925	0.0005	0.0114	0	12	-91.3
19 Cereal, flour, starch, milk preparations and products	5,255	20,796	-15,541	1.191	1.277	0.0161	0.0647		6	-59.7
39 Plastics and articles thereof	4,996	60,220	-55,224	1.132	3.698	0.0013	0.0157	15	12	-84.7
94 Furniture, lighting, signs, prefabricated buildings	4,624	37,769	-33,145	1.048	2.319	0.0034	0.0255	52	11	-78.2
33 Essential oils, perfumes, cosmetics, toileteries	4,427	18,104	-13,677	1.003	1.112	0.0068	0.0287	47		-60.7
32 Tanning, dyeing extracts, tannins, derivs,pigments etc	3,942	11,725	-7,783	0.893	0.72	0.0069	0.0205	-4	6	-49.7
62 Articles of apparel, accessories, not knit or crochet	3,749	14,860	-11,111	0.85	0.912	0.0024	0.0095	65	7	-59.7
87 Vehicles other than railway, tramway	3,711	103,576	-99,865	0.841	6.36	0.0004	0.0104		15	-93.1
76 Aluminium and articles thereof	3,626	14,216	-10,590	0.822	0.873	0.0026	0.0104	16	14	-59.4

Industry	Exports in value	Imports in value	Net trade in value	Exports as a share of total exports (%)	Imports as a share of total imports (%)	Exports as a share of world exports (%)	Imports as a share of world imports (%)	Growth of exports in value (% p.a.)	Growth of imports in value (% p.a.)	Net Trade (X-M)/(X+M) * 100
16 Meat, fish and seafood food preparations nes	3,068	8,024	-4,956	0.695	0.493	0.0105	0.0293	10	6	-44.7
63 Other made textile articles, sets, worn clothing etc	2,459	8,533	-6,074	0.557	0.524	0.0068	0.024	16	9	-55.3
49 Printed books, newspapers, pictures etc	2,300	14,477	-12,177	0.521	0.889	0.006	0.0383	6	6	-72.6
70 Glass and glassware	2,258	12,598	-10,340	0.512	0.774	0.0043	0.0242	13	6	-69.6
68 Stone, plaster, cement, asbestos, mica, etc articles	2,248	8,813	-6,565	0.51	0.541	0.0069	0.0268	154	15	-59.4
99 Commodities not elsewhere specified	2,244	7,439	-5,195	0.509	0.457	0.0007	0.002		25	-53.7
64 Footwear, gaiters and the like, parts thereof	2,228	10,595	-8,367	0.505	0.651	0.003	0.0133	385		-65.2
21 Miscellaneous edible preparations	2,030	24,599	-22,569	0.46	1.51	0.0061	0.0711		10	-84.8
11 Milling products, malt, starches, inulin, wheat gluten	2,020	2,843	-823	0.458	0.175	0.0225	0.0313	-2	5	-16.9
52 Cotton	1,892	1,187	705	0.429	0.073	0.0038	0.0025		-10	22.9
88 Aircraft, spacecraft, and parts thereof	1,737	958	779	0.394	0.059	0.001	0.0006	26		28.9
72 Iron and steel	1,457	26,352	-24,895	0.33	1.618	0.0004	0.0079	57	25	-89.5
20 Vegetable, fruit, nut, etc food preparations	1,427	15,972	-14,545	0.323	0.981	0.004	0.0451	4	7	-83.6
01 Live animals	1,266	361	905	0.287	0.022	0.0088	0.0025		15	55.6
42 Articles of leather, animal gut, harness, travel goods	1,175	4,293	-3,118	0.266	0.264	0.003	0.0101	150	10	-57
61 Articles of apparel, accessories, knit or crochet	975	5,496	-4,521	0.221	0.337	0.0007	0.004	40	-1	-69.9
24 Tobacco and manufactured tobacco substitutes	926	7,586	-6,660	0.21	0.466	0.0036	0.0265		27	-78.2
82 Tools, implements, cutlery, etc of base metal	854	5,548	-4,694	0.194	0.341	0.002	0.0129		3	-73.3
97 Works of art, collectors pieces and antiques	821	705	116	0.186	0.043	0.0048	0.0044	49	22	7.6
02 Meat and edible meat offal	740	19,351	-18,611	0.168	1.188	0.0011	0.0292	97	8	-92.6
03 Fish, crustaceans, molluscs, aquatic invertebrates nes	632	13,752	-13,120	0.143	0.844	0.001	0.0197		11	-91.2
44 Wood and articles of wood, wood charcoal	538	52,123	-51,585	0.122	3.201	0.0005	0.0456		8	-98
23 Residues, wastes of food industry, animal fodder	469	3,738	-3,269	0.106	0.23	0.0015	0.0108	4	9	-77.7
04 Dairy products, eggs, honey, edible animal product nes	444	21,351	-20,907	0.101	1.311	0.0009	0.0455		8	-95.9
05 Products of animal origin, nes	402	192	210	0.091	0.012	0.0075	0.0035	26	10	35.4
69 Ceramic products	394	12,633	-12,239	0.089	0.776	0.0012	0.0373	56	5	-94
34 Soaps, lubricants, waxes, candles, modelling pastes	387	14,449	-14,062	0.088	0.887	0.0011	0.0424		6	-94.8
83 Miscellaneous articles of base metal	280	10,372	-10,092	0.063	0.637	0.0006	0.0236	46	9	-94.7

Industry	Exports in value	Imports in value	Net trade in value	Exports as a share of total exports (%)	Imports as a share of total imports (%)	Exports as a share of world exports (%)	Imports as a share of world imports (%)	Growth of exports in value (% p.a.)	Growth of imports in value (% p.a.)	Net Trade (X-M)/(X+M) * 100
40 Rubber and articles thereof	239	13,464	-13,225	0.054	0.827	0.0002	0.0112		9	-96.5
06 Live trees, plants, bulbs, roots, cut flowers etc	227	1,105	-878	0.051	0.068	0.0015	0.0076		12	-65.9
37 Photographic or cinematographic goods	192	3,681	-3,489	0.044	0.226	0.0009	0.0184		10	-90.1
74 Copper and articles thereof	189	3,227	-3,038	0.043	0.198	0.0001	0.0025			-88.9
92 Musical instruments, parts and accessories	176	630	-454	0.04	0.039	0.0034	0.0113	33	-1	-56.3
96 Miscellaneous manufactured articles	163	4,347	-4,184	0.037	0.267	0.0008	0.0205		3	-92.8
65 Headgear and parts thereof	160	1,233	-1,073	0.036	0.076	0.0032	0.022		9	-77
89 Ships, boats and other floating structures	140	5,193	-5,053	0.032	0.319	0.0002	0.0076	30		-94.7
08 Edible fruit, nuts, peel of citrus fruit, melons	139	8,381	-8,242	0.032	0.515	0.0003	0.0139	-4	-2	-96.7
28 Inorganic chemicals, precious metal compound, isotopes	125	5,797	-5,672	0.028	0.356	0.0002	0.0066	27	8	-95.8
10 Cereals	121	14,553	-14,432	0.027	0.894	0.0002	0.0276	-14	6	-98.4
95 Toys, games, sports requisites	118	8,646	-8,528	0.027	0.531	0.0002	0.0098	46	5	-97.3
07 Edible vegetables and certain roots and tubers	101	12,357	-12,256	0.023	0.759	0.0003	0.0311		7	-98.4
09 Coffee, tea, mate and spices	79	2,624	-2,545	0.018	0.161	0.0004	0.0119	-5		-94.2
12 Oil seed, oleagic fruits, grain, seed, fruit, etc, nes	55	8,158	-8,103	0.012	0.501	0.0002	0.0239	-14	7	-98.7
29 Organic chemicals	51	5,844	-5,793	0.012	0.359	0	0.0019	32		-98.3
58 Special woven or tufted fabric, lace, tapestry etc	48	995	-947	0.011	0.061	0.0004	0.0094			-90.8
36 Explosives, pyrotechnics, matches, pyrophorics, etc	44	1,057	-1,013	0.01	0.065	0.0016	0.0342		14	-92
93 Arms and ammunition, parts and accessories thereof	37	797	-760	0.008	0.049	0.0005	0.0119	0	22	-91.1
80 Tin and articles thereof	34	3,101	-3,067	0.008	0.19	0.0009	0.0782		273	-97.8
26 Ores, slag and ash	24	46	-22	0.005	0.003	0	0			-31.4
31 Fertilizers	23	3,119	-3,096	0.005	0.192	0.0001	0.0095	-4	7	-98.5
46 Manufactures of plaiting material, basketwork, etc.	23	265	-242	0.005	0.016	0.0011	0.0135		1	-84
18 Cocoa and cocoa preparations	22	4,314	-4,292	0.005	0.265	0.0001	0.0185		6	-99
35 Albuminoids, modified starches, glues, enzymes	22	1,951	-1,929	0.005	0.12	0.0001	0.0112		8	-97.8
57 Carpets and other textile floor coverings	14	2,153	-2,139	0.003	0.132	0.0001	0.018		10	-98.7
66 Umbrellas, walking-sticks, seat-sticks, whips, etc	12	797	-785	0.003	0.049	0.0007	0.0397		18	-97
86 Railway, tramway locomotives, rolling stock, equipment	11	1,159	-1,148	0.002	0.071	0	0.0065		14	-98.1

Industry	Exports in value	Imports in value	Net trade in value	Exports as a share of total exports (%)	Imports as a share of total imports (%)	Exports as a share of world exports (%)	Imports as a share of world imports (%)	Growth of exports in value (% p.a.)	Growth of imports in value (% p.a.)	Net Trade (X-M)/(X+M) * 100
59 Impregnated, coated or laminated textile fabric	10	791	-781	0.002	0.049	0.0001	0.005	0	7	-97.5
55 Manmade staple fibres	6	3,547	-3,541	0.001	0.218	0	0.0125	-67		-99.7
56 Wadding, felt, nonwovens, yarns, twine, cordage, etc	6	1,847	-1,841	0.001	0.113	0	0.0123		10	-99.4
67 Bird skin, feathers, artificial flowers, human hair	0	1,677	-1,677	0	0.103	0	0.0465		5	-100
54 Manmade filaments	0	958	-958	0	0.059	0	0.0028		4	-100
60 Knitted or crocheted fabric	0	811	-811	0	0.05	0	0.0044			-100
78 Lead and articles thereof	0	279	-279	0	0.017	0	0.0065			-100
45 Cork and articles of cork	0	208	-208	0	0.013	0	0.0117		25	-100
79 Zinc and articles thereof	0	186	-186	0	0.011	0	0.0011		120	-100
47 Pulp of wood, fibrous cellulosic material, waste etc	0	167	-167	0	0.01	0	0.0005			-100
13 Lac, gums, resins, vegetable saps and extracts nes	0	107	-107	0	0.007	0	0.0028			-100
41 Raw hides and skins (other than furskins) and leather	0	95	-95	0	0.006	0	0.0003			-100
53 Vegetable textile fibres nes, paper yarn, woven fabric	0	82	-82	0	0.005	0	0.0023		11	-100
75 Nickel and articles thereof	0	62	-62	0	0.004	0	0.0002		61	-100
51 Wool, animal hair, horsehair yarn and fabric thereof	0	54	-54	0	0.003	0	0.0004		28	-100
14 Vegetable plaiting materials, vegetable products nes	0	48	-48	0	0.003	0	0.0067			-100
50 Silk	0	42	-42	0	0.003	0	0.0014		-27	-100
81 Other base metals, cermets, articles thereof	0	35	-35	0	0.002	0	0.0002			-100