

# CPTPP: Implications for Malaysia's Merchandise Trade Balance

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# **CPTPP: Implications for Malaysia's Merchandise Trade Balance**

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Abstract: A mega regional Free Trade Agreement like the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP) has the potential to impact countries which are inside as well as those which are outside the agreement. This paper provides empirical estimates of potential changes in Malaysia's merchandise balance of trade if it joins the CPTPP and compares it to its trade balance if it does not join this free trade agreement (FTA). A positive balance of merchandise trade is important for Malaysia as it is a net importer of services. However, since 2010 Malaysia's merchandise imports have been growing much faster than its exports. Using SMART simulations, the estimates show that if Malaysia joins the CPTPP its imports will rise much more than its exports leading to a worsening of its trade balance by around US\$2.4 billion per annum. Imports of vehicles from the CPTPP countries will increase including that of plastics and its articles. Exports to the CPTPP partner countries will rise only marginally as Malaysia already has free trade agreements with its top three export destination countries, i.e., Japan, Singapore and Australia, which account for 84% of its exports to the CPTPP partner countries. Remaining out of the CPTPP will also adversely impact Malaysia's exports to the CPTPP countries but this decline is much smaller compared to the rise in its imports if it joins the CPTPP. The estimated tariff revenue loss to Malaysia of joining the CPTPP is estimated at US\$1.6 billion per annum. The paper argues that along with the traditional indicators of trade competitiveness like trade balance developing countries also need to give importance to preserving their policy space in free trade agreements as the fourth digital revolution is changing the ways products are manufactured and exported. Growing trade in electronic transmissions will be a game changer in the area of international trade competitiveness.

#### 1. Introduction

Malaysia has always been a net exporter in its merchandise trade but a net importer of services. In 2017, it enjoyed \$22.6 billion of merchandise trade surplus while its net services imports amounted to US\$ 5.3 billion<sup>1</sup>. While Malaysia enjoys a positive trade balance in its merchandise trade, this trade balance has been steadily declining over the years. It declined from US\$34 billion in 2010 to US\$23 billion in 2015 and further to US\$22.6 billion in 2017. Most of its merchandise exports comprise of manufactured goods (67%) and fuel (15%) with top five export products going to Singapore, China and the USA. While Malaysia's exports have posted strong and resilient growth with an average annual growth rate of 4.4% in the period 2010-2017, its imports have grown faster with an average annual

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<sup>&</sup>lt;sup>1</sup>Source: UNCTADSTAT

growth rate of 6.6%. Maintaining a positive merchandise trade surplus is important for Malaysia in the face of the faster growing imports as well as a negative trade balance in services, which declined from (+) US\$2.0 billion in 2010 to (-) US\$5.3 billion in 2017.

In this context, it becomes important to examine the implications of any new regional trade agreement like the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP) on Malaysia's merchandise exports and imports as well as its balance of trade. The share of 10 CPTPP partner countries in Malaysia's global exports has remained on an average around 31% in the period 2010- 2017, while their share in Malaysia's global imports has remained around 27%.

The CPTPP, which followed the Trans-Pacific Partnership Agreement (TPP12) after the withdrawal of the USA, was signed by 11 participating countries - Australia, Brunei Darussalam, Canada, Chile, Japan, Malaysia, Mexico, New Zealand, Peru, Singapore and Viet Nam - on 8<sup>th</sup> March 2018 in Santiago, Chile. By February 2019, seven out of the eleven countries had completed their ratification procedure. These are Mexico, Japan, Singapore, Australia, New Zealand, Canada and Viet Nam. Malaysia is in the process of re-examining the implications of the CPTPP. This paper estimates the likely impact of the CPTPP on Malaysia's merchandise exports, imports and its trade balance. The rest of the paper is organized as follows: section 2 briefly reviews the existing literature on the CPTPP; section 3 highlights the existing trends in Malaysia's trade with the CPTPP partner countries; section 4 discusses the methodology adopted to estimate the impact of the CPTPP on Malaysia's exports and imports to the CPTPP partner countries; section 5 presents the results at the country level as well as at the disaggregated product level; section 6 reports results of potential import tariff revenue loss to Malaysia of the CPTPP; section 7 concludes and provides a way forward.

#### 2. Existing Literature on CPTPP

While there is an extensive literature on the impact of TPP on TPP12 countries, very limited studies exist which estimate the impact of CPTPP on the partner countries' trade. The exclusion of the USA from the TPP has drastically changed the results which were arrived at by the existing literature on TPP. The USA being the largest trading partners for all the TPP partner countries had the maximum weight in terms of bringing economic gains and losses to the TPP partner countries.

Very few studies exist which estimates the economic impact of the CPTPP. Some of the existing literature shows that the CPTPP without the USA cannot bring the expected trade gains for the CPTPP11 partner countries. For example, according to World Bank (2018), the CPTPP will increase Viet Nam's GDP by 1.1 per cent by 2030 but in terms of its trade balance, the exports are projected to grow by 4.2%, and imports by 5.3%, which will worsen Viet Nam's existing trade balance. PIIE (2017) compared the impact of the TPP and the CPTPP for the 11-member countries. While the study reports an expected rise in exports of these countries, especially for Malaysia and Viet Nam, it is silent about the expected rise in their imports. With USA out of this regional trade agreement, these countries have lost their biggest export market while retaining their import partners.

Further the methodology adopted by the existing studies including that used by the PIIE (2017) has been strongly criticized in the economic literature. The computable general equilibrium (CGE) models that have been adopted are based on unreasonable assumptions such as full employment, which will always show positive gains in the gross domestic product (GDP) (Raza et al, 2014)<sup>2</sup>. According to Taylor and Arnim (2006), most of the CGE models assume (i) fixed or 'full' employment of labour and capital is maintained everywhere in the world (ii) each country's trade deficit (or surplus) stays constant after liberalization; and (iii) completely flexible taxes on households, which enable each country's internal economy to adjust smoothly. The assumption regarding the 'constant trade balance' implies that if government revenues change due to tariff reduction or other trade policies, government expenditures must adjust endogenously to satisfy the fixed budget deficit. However, in real world this is never the case. The assumption regarding completely flexible taxes on households, imply that "any changes in government budget are automatically compensated by income tax rates on households". These assumptions mean that the models are designed in such a way that 'the price system' will always respond to liberalization in a way which leads to increases in overall well-being. These assumptions are made in most of the studies assessing implications of the TPP and the CPTPP, including the PIIE studies (2012, 2017).

According to Panagariya and Duttagupta (2001), CGE models that show 'gains' for a country from its own preferential liberalization are able to do so only by using internally inconsistent assumptions. The 'Armington assumption' used in all CGE models, including Petri et al (2017), implies that there exists 'product differentiation' i.e., no country, howsoever small, produces something which is also produced by another country in the world. In other words, domestic and foreign products are imperfect substitutes. For example, it is assumed that oil produced in one country is different from the oil produced by any other country, and therefore it can never be completely substituted.

According to Raza et al (2014), the costs of 'regulatory changes' are also never estimated by CGE models. CPTPP involves considerable regulatory changes in the member countries which can have huge short-term adjustment costs, which are ignored by the CGE models.

This paper estimates the likely increase in merchandise imports and exports of Malaysia post CPTPP, estimating the per annum change in Malaysia's Balance of Trade following CPTPP. The methodology adopted is partial equilibrium analysis at a HS 6-digit product disaggregation and therefore avoids the above discussed restrictive assumptions.

#### 3. Existing Trends in Malaysia's Trade with CPTPP Members

<sup>2</sup> Raza, W., Grumiller, J, Taylor, L., Tröster, B., von Arnim, R. (2014) 'Assess TTIP: Assessing the Claimed Benefits of the Transatlantic Trade and Investment Partnership'. Vienna: Austrian Foundation for Development Research

Malaysia has enjoyed a net merchandise trade balance since 2009, however this trade balance has been steadily declining. It declined from USD 34 billion in 2009 which was 21% of its exports to USD 23 billion in 2017 which amounted to 10% of its exports (Figure 1).

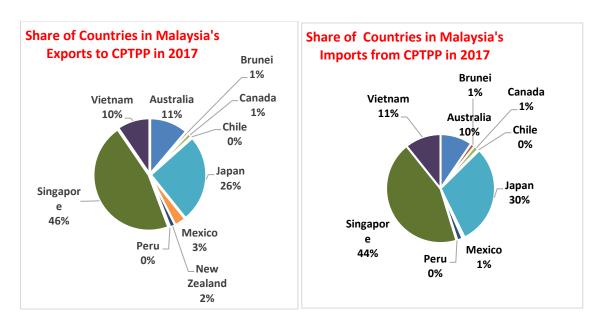
Malaysia's Merchandise Exports, Imports and Trade Balance (\$ billion): 2009-2017 ■ Malaysia's Exports to World Malaysia's Imports from World

Figure 1: Malaysia's Merchandise Exports, Imports and Trade Balance (US\$ billion): 2009-2017

Source: World Integrated Trade Solutions, World Bank and UNCTAD

The share of CPTPP partner countries of Malaysia's global exports and imports has remained on an average around 32% and 27% respectively between 2010 to 2017. Examining the share of different CPTPP countries in Malaysia's exports and imports, we find that within the CPTPP Singapore is the largest export market for Malaysia (46%) followed by Japan (26%) in terms of value of exports. It is important to note that with its two largest importers which account for 72% of Malaysia's exports to CPTPP partner countries, Malaysia already as FTAs. In terms of Malaysia's imports, share of Japan and Singapore account for around 74% of Malaysia's total imports from CPTPP partner countries (Figure 2). Australia accounts for around 10% of Malaysia's exports and imports to CPTPP. Australia also has an existing FTA with Malaysia. These are the three important countries for Malaysia within CPTPP, with whom Malaysia already has FTAs and therefore may not gain any additional tariff concessions by entering CPTPP. Canada, Mexico and New Zealand have minor share in Malaysia's merchandise trade.

Figure 2: Share of CPTPP Countries in Malaysia's Exports and Imports



Source: World Integrated Trade Solutions, World Bank and UNCTAD

In terms of product-wise exports and imports, Appendix Table A.1 reports Malaysia's total exports and imports in different product categories (HS 2-Digit) to and from CPTPP countries and their share in Malaysia's global exports and imports in those product categories. The top five ranking products of exports of Malaysia in CPTPP countries are electrical machinery and equipment and parts thereof; mineral fuels, mineral oils and products of their distillation; machinery and mechanical appliances; plastics and articles thereof; optical, photographic, cinematographic products; and animal or vegetable fats and oils,

The top five products with highest share of CPTPP countries in Malaysia's global imports are wool, fine or coarse animal hair; horsehair yarn and woven fabric; nickel and articles thereof; dairy produce; birds' eggs; natural honey; edible products of animal origin, not elsewhere specified or included; cork and articles of cork; and live animals. CPTPP countries have more than 60% share in Malaysia's global imports in these products. In terms of Malaysia's exports to CPTPP countries the top five ranking products are clocks and watches and parts thereof; articles of stone, plaster, cement, asbestos, mica or similar materials; carpets and other textile floor coverings; cereals; and meat and edible meat offal apart from live animals. CPTPP countries have more than 64% share in Malaysia's global exports in these products.

With respect to Malaysia's tariffs vis-a-vis CPTPP10 countries, given that Malaysia already has existing trade agreements with most of the countries, Malaysia's applied and Bound tariffs are on an average lower than compared its MFN tariffs. Table 1 reports Malaysia's average tariffs with respect to the CPTPP10 countries and CPTPP10 countries average tariffs vis-a-vis Malaysia. It is important to note that the tariff liberalization for Malaysia will be greater than the CPTPP10 countries as Malaysia's

average tariffs are higher than their average tariffs for total trade. However, while average industrial tariffs are higher in Malaysia, agricultural tariffs are higher in CPTPP10 countries vis-a-vis Malaysia.

Table 1: Malaysia's Tariffs vis-à-vis CPTPP10 Countries in 2016

| Malaysia vis-à-vi | s CPTPP10        | WTO HS       | WTO HS     |             |
|-------------------|------------------|--------------|------------|-------------|
|                   |                  | Agricultural | Industrial | Total Trade |
| Applied Duties    | Simple Average   | 2.77         | 5.61       | 5.28        |
| Applied Duties    | Weighted Average | 3.7          | 4          | 3.51        |
| Bound Duties      | Simple Average   | 11.54        | 15.24      | 14.75       |
| Bound Duties      | Weighted Average | 12.5         | 9.03       | 8.9         |
| CPTPP10 vis-a-v   | is Malaysia      |              |            |             |
|                   |                  |              |            |             |
| Applied Duties    | Simple Average   | 2.93         | 2.47       | 1.11        |
| Applied Duties    | Weighted Average | 4.45         | 1.59       | 0.23        |
| Bound Duties      | Simple Average   | 14.19        | 14.48      | 13.94       |
| Bound Duties      | Weighted Average | 11.22        | 9.17       | 7.64        |

Source: TRAINS database, World Integrated Trade Solutions, WITS

## 4. Methodology Used to Estimate Impact of CPTPP on Malaysia's Trade Balance

To estimate the impact of the CPTPP on Malaysia's trade balance, we use SMART simulations which are based on Partial equilibrium and available in World Integrated Trade Solutions-WITS (World Bank and UNCTAD)<sup>3</sup>. One of the advantages of this approach is that it allows estimation of tariff reduction at a very disaggregated level, for example, implications of removing tariffs on broken rice (at HS six-digit disaggregation). HS-Combined nomenclature is used by SMART simulations. Such a disaggregated product-level estimations of tariff reductions are not possible in any other model. SMART simulations are appropriate to use for the CPTPP analysis as only few products have high tariffs in many of the member countries and implications for removing these tariffs on exports, imports, trade creation and trade diversion can be estimated. This also resolves a number of "aggregation biases." However, it needs to be remembered that this result of partial equilibrium analysis applies to only that product/sector and ignores inter-sectoral linkages. For estimating trends in Malaysia's trade HS2012 nomenclature has been used.

The analysis is undertaken to estimate the impact of 100% tariff liberalization for all the CPTPP countries. The results arrived for exports of Malaysia will be over-estimated as in the CPTPP while

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<sup>&</sup>lt;sup>3</sup> https://wits.worldbank.org/

Malaysia removes tariffs on 100% imports, Japan removes tariffs on 95% of imports and Canada and Viet Nam remove tariffs on 97% of imports while Mexico removes tariffs on 99% of imports<sup>4</sup>.

#### 5. Impact of CPTPP on Malaysia's Trade Balance: Results

The impact of entering the CPTPP on Malaysia's imports, exports and trade balance is estimated using the above discussed methodology. The results are arrived at the country level as well as at the product level. The analysis also reports the results of new imports that will be created for Malaysia due to the CPTPP, i.e., 'trade creation' as well as imports that Malaysia will divert from non-CPTPP countries to instead buy from the CPTPP countries, i.e., 'trade diversion.' Impact of the CPTPP on Malaysia' exports is also estimated. Further, the impact of Malaysia not entering the CPTPP (while other 10 countries ratify the CPTPP) is estimated on Malaysia's exports and imports.

#### 5.1 Impact on Malaysia's Imports from CPTPP Countries

Table 1 reports the results using the SMART simulations of the impact of CPTPP on Malaysia's trade. The simulation results show that if Malaysia enters CPTPP and all 11 countries bring their tariffs down to zero, Malaysia's total imports from the CPTPP partner countries will rise by US\$2.5 billion per annum. Maximum increase of imports will take place from Japan, in which case imports into Malaysia are estimated to increase by US\$1.5 billion (Table 2). This is followed by increase in imports from Singapore and Vietnam.

Table 2: Impact of the CPTPP on Malaysia's Imports from CPTPP Partner Countries

|             | Imports in 2016 (US\$1000) | Imports Post<br>CPTPP<br>(US\$1000) | Change in<br>Imports post<br>CPTPP<br>(US\$1000) | Trade<br>Creation<br>(US\$1000) | Trade Diversion Effect in (US\$1000) | Percentage<br>Change in<br>Imports |
|-------------|----------------------------|-------------------------------------|--|---------------------------------|--------------------------------------|------------------------------------|
| Australia   | 3 695 967                  | 3 766 828                           | 70 861   | 37 497                          | 33 365                               | 2                                  |
| Brunei      | 156 307                    | 159 172                             | 2 865  | 1 662                           | 1 203                                | 2                                  |
| Canada      | 663 154                    | 679 072                             | 15 918   | 7 764                           | 8 154                                | 2                                  |
| Chile       | 104 351                    | 107 335                             | 2 984  | 2 074                           | 910                                  | 3                                  |
| Japan       | 13 638 712                 | 15 149 847                          | 1 511 135  | 856 937                         | 654 198                              | 11                                 |
| Mexico      | 366 806                    | 380 421                             | 13 615   | 6 320                           | 7 296                                | 4                                  |
| New Zealand | 684 386                    | 708 549                             | 24 163   | 14 145                          | 10 019                               | 4                                  |
| Peru        | 76 386                     | 76 882                              | 496  | 321                             | 175                                  | 1                                  |
| Singapore   | 17 254 412                 | 17 830 565                          | 576 153  | 306 893                         | 269 261                              | 3                                  |
| Vietnam     | 4 509 779                  | 4 834 617                           | 324 838  | 166 989                         | 157 849                              | 7                                  |
| Total       | 41 150 259                 | 43 693 289                          | 2 543 030  | 1 400 601                       | 1 142 428                            | 6                                  |

Source: Author's estimations based on SMART simulations, WITS

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<sup>&</sup>lt;sup>4</sup> Table 2 of Chapter 2 http://www.piie.com/publications/briefings/piieb16-1.pdf.

The results at the disaggregated product-level show that if Malaysia enters CPTPP the top five products whose imports will rise the most are vehicles; plastics and articles thereof; machinery and mechanical appliances; electrical machinery and equipment; and iron and steel (Table 3). Appendix Table A.2 reports the change in imports of 97 HS chapter (2-digit) following Malaysia's entry into CPTPP. Imports of vehicles which enter Malaysia with a custom duty will rise by 36% if these duties are brought down to zero. Table 4 presents more details of the increase in imports of motor cars, above US\$2 million. Highest rise in imports will be of motor cars with HS code- 870323(of a cylinder capacity exceeding 1,500 cc but not exceeding 3,000 cc), followed by motor cars under HS code-870324 (of a cylinder capacity exceeding 3,000 cc), mainly from Japan.

Table 3: Impact of CPTPP on Malaysia's Imports from CPTPP Partner Countries: Product-Level

|    | HS<br>Chapter |   | Imports of<br>Malaysia<br>Before<br>CPTPP<br>(US\$1000)<br>(2016) | Estimated<br>Imports of<br>Malaysia<br>after<br>CPTPP<br>(US\$1000) | Change in<br>Imports<br>post<br>CPTPP<br>(US\$1000) | Percentage<br>Change in<br>Imports of<br>Malaysia<br>post<br>CPTPP<br>(%) |
|----|---------------|---|---|---|---|---|
| 1  | 87            | Vehicles Other Than Railway or Tramway<br>Rolling Stock, And Parts and Accessories<br>Thereof   | 1 794 805   | 2 436 822   | 642 017   | 36  |
| 2  | 39            | Plastics and Articles There of  | 1 325 380   | 1 562 165   | 236 785   | 18  |
| 3  | 84            | Nuclear Reactors, Boilers, Machinery and<br>Mechanical Appliances; Parts Thereof  | 1 353 111   | 1 585 407   | 232 296   | 17  |
| 4  | 85            | Electrical Machinery and Equipment and Parts Thereof; Sound Recorders and Reproducers, Television Image and Sound Recorders and Reproducers, and Parts and Accessories of Such Articles | 994 438   | 1 180 381   | 185 943   | 19  |
| 5  | 72            | Iron and Steel  | 918 529   | 1 097 007   | 178 478   | 19  |
| 6  | 76            | Aluminium and Articles There of   | 260 588   | 373 546   | 112 958   | 43  |
| 7  | 71            | Natural or Cultured Pearls, Precious or Semi-<br>Precious Stones, Precious Metals, Metals Clad<br>With Precious Metal, And Articles Thereof;<br>Imitation Jewellery; Coin               | 443 476   | 539 632   | 96 156  | 22  |
| 8  | 40            | Rubber and Articles Thereof   | 328 741   | 424 852   | 96 111  | 29  |
| 9  | 73            | Articles of Iron or Steel   | 657 981   | 749 545   | 91 564  | 14  |
| 10 | 48            | Paper and Paperboard; Articles of Paper Pulp, of Paper or of Paperboard   | 309 558   | 385 994   | 76 437  | 25  |

Table 4: Rise in Imports of Motor Cars in Malaysia post CPTPP post CPTPP

| Product<br>Code at<br>4digit | Product At 4digit  | Product<br>code At<br>6digit | Description of<br>Product At<br>6digit  | Imports<br>from | Malaysia's<br>Imports<br>Before the<br>CPTPP<br>(US\$1000) | Malaysia's<br>Imports<br>after the<br>CPTPP<br>(US\$1000) | Change in<br>Imports Post<br>the CPTPP<br>(US\$1000) |
|------------------------------|--|------------------------------|---|-----------------|--|---|--|
| 8703                         | Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars. | 870323                       | Of a cylinder<br>capacity<br>exceeding<br>1,500 cc but not<br>exceeding<br>3,000 cc | Japan           | 616 972  | 821 141   | 204 170  |
| 8703                         | Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars. | 870324                       | Of a cylinder<br>capacity<br>exceeding<br>3,000 cc                                  | Japan           | 85 992   | 128 169   | 42 177   |
| 8703                         | Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars. | 870322                       | Of a cylinder capacity exceeding 1,000 cc but not exceeding 1,500 cc                | Japan           | 37 826   | 52 801  | 14 974   |
| 8703                         | Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars. | 870332                       | Of a cylinder<br>capacity<br>exceeding<br>1,500 cc but not<br>exceeding<br>2,500 cc | Japan           | 15 497   | 28 676  | 13 179   |
| 8703                         | Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 87.02), including station wagons and racing cars. | 870333                       | Of a cylinder<br>capacity<br>exceeding<br>2,500 cc                                  | Japan           | 4 933  | 6 852   | 1 919  |

It is interesting to note that the CPTPP may lead to higher imports of plastic waste and scarp under plastics and plastic products. This import can increase by around 35%, mainly coming from Japan, Singapore and Australia (Table 5).

Table 5: Increase in Imports of Plastic Waste and Scrap post CPTPP in Malaysia

| Product<br>Code at<br>4digit | Product description at 4digit          | Imports<br>from<br>country | Malaysia's<br>Imports<br>before the<br>CPTPP<br>(US\$1000)<br>in 2016 | Malaysia's Estimated Imports after the CPTPP (US\$1000) | Change in<br>Imports<br>post<br>CPTPP<br>(US\$1000)<br>In 2016 | Percentage Change in Imports Post CPTPP (%) |
|------------------------------|--|----------------------------|---|---|--|---|
|                              |  |                            | III 2010  | in 2016   | III 2010   | (70)  |
| 3915                         | Waste, parings and scrap, of plastics. | Japan                      | 8 969   | 11 991  | 3 022  | 34  |
| 3916                         | Waste, parings and scrap, of plastics. | Singapore                  | 3 284   | 4 454   | 1 169  | 36  |
| 3917                         | Waste, parings and scrap, of plastics. | Australia                  | 2 184   | 2 971   | 787  | 36  |
| 3918                         | Waste, parings and scrap, of plastics. | Canada                     | 1 028   | 1 430   | 401  | 39  |
| 3919                         | Waste, parings and scrap, of plastics. | Mexico                     | 413   | 570   | 158  | 38  |
| 3920                         | Waste, parings and scrap, of plastics. | New<br>Zealand             | 328   | 459   | 131  | 40  |
| 3921                         | Waste, parings and scrap, of plastics. | Vietnam                    | 37  | 51  | 14   | 38  |
| 3922                         | Waste, parings and scrap, of plastics. | Chile                      | 17  | 21  | 5  | 30  |
| 3923                         | Waste, parings and scrap, of plastics. | Brunei                     | 3   | 4   | 1  | 30  |
|                              | Total                                  |                            | 16 263  | 21 951  | 5 688  | 35  |

#### 5.2 Change in Malaysia's Exports Post CPTPP

While CPTPP may lead to a rise of US\$2.5 billion in Malaysia's imports, the CPTPP may not offer the opportunity to Malaysia to increase its exports substantially. There are two reasons for this. Firstly, Malaysia already has existing free trade agreements with its major trading partners within the CPTPP, i.e., Japan, Singapore and Australia. The existing tariffs are already very low in these countries, visa-vis Malaysia so any further trade agreements will not boost the exports of Malaysia substantially. However, within these trade agreements Malaysia has a sensitive list whereby Malaysia's tariffs are not very low vis-a-vis these countries. Any new trade agreement may imply lowering tariffs of sensitive products of Malaysia and consequently rise in its imports of these products like vehicles and plastics.

Table 6 reports the estimated rise in Malaysia's exports post CPTPP, which is only 0.2% of its existing imports in 2016. Highest rise in absolute terms is expected in Malaysia's exports to Vietnam followed by Canada. While Vietnam is part of ASEAN FTA along with Malaysia, it may have reserved high tariffs in some of the product lines of interest to Malaysia. The CPTPP could therefore lead to a rise in

Malaysia's exports to Vietnam. Malaysia does not have an FTA with Canada and therefore there exists a potential for Malaysia to increase its exports to Canada post CPTPP. Appendix Table A.3 reports the product-wise and country-wise likely increase in exports of Malaysia (greater than US\$ 1million) if it ratifies the CPTPP.

Table 6: Estimated Change in Malaysia's Exports post CPTPP

|                | Exports Before<br>CPTPP (US\$1000) | Exports After<br>CPTPP<br>(US\$1000) | Change in Exports<br>post CPTPP<br>(US\$1000) | Percentage<br>Change in<br>Exports<br>(%) |
|----------------|------------------------------------|--------------------------------------|---|---|
| Australia      | 6 445 327                          | 6 406 655                            | -38 672                                       | -0.6                                      |
| Brunei         | 512 029                            | 510 493                              | -1 536  | -0.3                                      |
| Canada         | 704 494                            | 722 811                              | 18 317  | 2.6                                       |
| Chile          | 164 104                            | 175 427                              | 11 323  | 6.9                                       |
| Japan          | 15 250 309                         | 15 250 309                           | 0   | 0   |
| Mexico         | 1 890 946                          | 1 898 510                            | 7 564   | 0.4                                       |
| New<br>Zealand | 731 767                            | 731 035                              | -732  | -0.1                                      |
| Peru           | 122 405                            | 129 260                              | 6 855   | 5.6                                       |
| Singapore      | 27 581 069                         | 27 581 069                           | 0   | 0   |
| Vietnam        | 5 730 266                          | 5 856 332                            | 126 066                                       | 2.2                                       |
| Total          | 59 132 717                         | 59 261 902                           | 129 185                                       | 0.2                                       |

Source: Author's estimations based on SMART simulations, WITS

Note: It should be noted that the export figures of Malaysia to CPTPP countries do not match with the import figures of CPTPP countries from Malaysia. One reason is imports figures include c.i.f. But in come cases like Malaysia's exports to Mexico and Mexico's imports from Malaysia has huge difference. Some studies account this difference to misinvoicing. https://wits.worldbank.org/wits/wits/witshelp/content/data\_retrieval/T/Intro/B2.Imports\_Exports\_and\_Mirror.htm

The results show that there will be a fall in exports from Malaysia to Australia post the CPTPP. Although this may appear counter-intuitive, this is very likely within a regional trading bloc. Any regional free trade agreement leads to a shift in the regional pattern of trade with imports into partner countries being shifted from less competitive to more competitive countries within the region. This is 'trade diversion' which always accompanies trade creation within the free trade area. In case of Australia, post CPTPP it is estimated that there will be trade diversion for Australia and it will source more imports from other competitive countries as compared to Malaysia, adversely impacting Malaysia's exports to Australia.

Table 7 reports results of trade creation and trade diversion for Australia post CPTPP. The results indicate that Australia's imports from Malaysia declines while they increase from Japan by 7%. There will be no new exports to Australia from Brunei, Chile, Malaysia, New Zealand and Singapore. Japan on the other hand will have new exports to Australia of US\$ 711 million along with trade diversion of US\$ 228 million.

Table 7: Australia's Trade Diversion from Malaysia post CPTPP

|             | Imports of Australia from Countries in 2016 (US\$1000) | Trade Creation<br>Effect post<br>CPTPP<br>(US\$1000) | Trade Diversion Effect post CPTPP (US\$1000) | Trade Total<br>Effect post<br>CPTPP<br>(US\$1000) | Percentage<br>Change in<br>Imports post<br>CPTPP |
|-------------|--|--|--|---|--|
| Brunei      | 229 225  | 0  | -10  | -9  | 0  |
| Canada      | 1 558 291  | 31 102   | 10 753                                       | 41 855  | 3  |
| Chile       | 397 413  | 0  | -1 764                                       | -1 764  | 0  |
| Japan       | 14 391 496   | 711 581  | 228 517                                      | 940 098   | 7%   |
| Malaysia    | 6 834 028  | 0  | -38 780                                      | -38 780   | -1   |
| Mexico      | 1 866 294  | 32 429   | 24 806                                       | 57 236  | 3  |
| New Zealand | 5 593 377  | 0  | -54 395                                      | -54 395   | -1   |
| Peru        | 262 864  | 852  | 780  | 1 632   | 1  |
| Singapore   | 5 117 498  | 0  | -20 966                                      | -20 966   | 0  |
| Vietnam     | 3 313 112  | 6 435  | -21 321                                      | -14 886   | 0  |
| Total       | 39 563 598   | 782 399  | 127 621                                      | 910 020   | 2  |

### 5.3: Implications of CPTPP on Malaysia's Merchandise Trade Balance

The simulations results reported in Table 8 present the results for the likely impact of CPTPP on Malaysia's merchandise trade balance. The results show that post CPTPP Malaysia's trade balance can worsen, falling from US\$17.9 billion in 2016 to US\$15.5 billion post CPTPP, i.e., a fall of around 13% in Malaysia's merchandise Balance of Trade is expected post CPTPP, if Malaysia joins the regional trade agreement.

**Table 8: Impact of CPTPP on Malaysia's Merchandise Trade Balance** 

|             | Malaysia's | Malaysia's | Malaysia's    | Estimated    | Estimated           | Trade               | Change in  |
|-------------|------------|------------|---------------|--------------|---------------------|---------------------|------------|
|             | Imports in | Exports in | Trade Balance | Imports post | <b>Exports Post</b> | <b>Balance Post</b> | ВОТ        |
|             | 2016       | 2016       | in 2016       | CPTPP        | CPTPP               | CPTPP               | (US\$1000) |
|             | (US\$1000) | (US\$1000) | (US\$1000)    | (US\$1000)   | (US\$1000)          | (US\$1000)          |            |
| Australia   | 3 695 967  | 6 445 327  | 2 749 360     | 3 766 828    | 6 408 753           | 2 641 925           | -107 435   |
| Brunei      | 156 307    | 512 029    | 355 722       | 159 172      | 510 687             | 351 515             | -4 207     |
| Canada      | 663 154    | 704 494    | 41 340        | 679 072      | 722 970             | 43 898              | 2 558      |
| Chile       | 104 351    | 164 104    | 59 753        | 107 335      | 175 423             | 68 088              | 8 335      |
| Japan       | 13 638 712 | 15 250 309 | 1 611 597     | 15 149 847   | 15 255 611          | 105 764             | -1 505 833 |
| Mexico      | 366 806    | 1 890 946  | 1 524 140     | 380 421      | 1 899 336           | 1 518 915           | -5 225     |
| New Zealand | 684 386    | 731 767    | 47 381        | 708 549      | 731 020             | 22 471              | -24 910    |
| Peru        | 76 386     | 122 405    | 46 019        | 76 882       | 129 299             | 52 417              | 6 398      |
| Singapore   | 17 254 412 | 27 581 069 | 10 326 657    | 17 830 565   | 27 581 069          | 9 750 504           | -576 153   |
| Vietnam     | 4 509 779  | 5 730 266  | 1 220 487     | 4 834 617    | 5 856 024           | 1 021 407           | -199 080   |
| Total       | 41 150 259 | 59 132 717 | 17 982 458    | 43 693 289   | 59 270 193          | 15 576 904          | -2 405 552 |

#### 5.4: Implications of CPTPP on Malaysia's Balance of Trade if Malaysia does not join CPTPP

It is often argued that a country which stays out of a regional trade agreement loses in terms of its exports as tariffs of the partner countries within the FTA are lower with respect to each-other compared to countries outside the FTA. This would imply a trade diversion away from countries out of the agreement and towards countries within the trade agreement, adversely impacting the exports of excluded countries.

However, the extent of trade diversion depends on whether the excluded country has an existing free trade agreement with its major trading partners, which are participating in the regional FTA. In case of Malaysia, it is found that Malaysia already has existing FTAs with Singapore, Japan and Australia. These three countries account for around 82% and 84% of Malaysia's exports and imports within CPTPP. Consequently, Malaysia may not lose much in terms of trade diversion by staying out of CPTPP.

Table 9 reports the estimated results, which show that if Malaysia decides not to join CPTPP, the loss of exports from Malaysia following the CPTPP will be only 0.09% of its existing exports to the CPTPP partner countries, which amounts to US\$53.2 million.

Table 9: Impact of CPTPP on Malaysia's Exports if Malaysia does not join CPTPP

|                | Exports of Malaysia<br>before CPTPP in<br>2016 (US\$1000) | Exports of Malaysia<br>post CPTPP<br>(US\$1000) | Change in Exports<br>of Malaysia post<br>CPTPP (US\$1000) | Percentage Loss in Exports of Malaysia post CPTPP if Malaysia does not join CPTPP |
|----------------|---|---|---|---|
| Australia      | 6 445 327   | 6 436 304                                       | -9 023  | -0.14   |
| Brunei         | 512 029   | 512 029   | 0   | 0   |
| Canada         | 704 494   | 703 156   | -1 339  | -0.19   |
| Chile          | 164 104   | 162 250   | -1 854  | -1.13   |
| Japan          | 15 250 309  | 15 233 534                                      | -16 775   | -0.11   |
| Mexico         | 1 890 946   | 1 889 622                                       | -1323   | -0.07   |
| New<br>Zealand | 731 767   | 730 230   | -1 537  | -0.21   |
| Peru           | 122 405   | 122 319   | -85   | -0.07   |
| Singapore      | 27 581 069  | 27 581 069                                      | 0   | 0   |
| Vietnam        | 5 730 266   | 5 696 458                                       | -33 809   | -0.59   |
| Total          | 59 132 717  | 59 079 498                                      | -53 219   | -0.09   |

While Malaysia's exports to CPTPP partner countries will be adversely impacted marginally if it does not join CPTPP, with no changes to its tariffs, the imports will not change leading to a lower but a healthier trade balance than if it joins the CPTPP of US \$ 17.92 billion (Table 10).

**Table 10: Comparison of Change in Malaysia's Trade Balance with CPTPP and without CPTPP** 

|             | Malaysia's Trade<br>Balance in 2016<br>(US\$1000) | Trade Balance Post<br>CPTPP If Malaysia<br>Joins CPTPP<br>(US\$1000) | Trade Balance Post<br>CPTPP If Malaysia<br>does not Join CPTPP<br>(US\$1000) |
|-------------|---|--|--|
| Australia   | 2 749 360   | 2 639 827  | 2 740 337  |
| Brunei      | 355 722   | 351 321  | 355 722  |
| Canada      | 41 340  | 43 739   | 40 002   |
| Chile       | 59 753  | 68 092   | 57 899   |
| Japan       | 1 611 597   | 100 462  | 1 594 822  |
| Mexico      | 1 524 140   | 1 518 089  | 1 522 816  |
| New Zealand | 47 381  | 22 486   | 45 844   |
| Peru        | 46 019  | 52 378   | 45 933   |
| Singapore   | 10 326 657  | 9 750 504  | 10 326 657   |
| Vietnam     | 1 220 487   | 1 021 715  | 1 186 679  |
| Total       | 17 982 457  | 15 568 614   | 17 929 239   |

Source: Author's estimations based on SMART simulations, WITS

#### 6. Potential Tariff Revenue Loss to Malaysia of joining CPTPP

As discussed in section 3, on average Malaysia has higher import tariffs as compared to the other CPTPP countries. This implies that the tariff revenue loss to Malaysia will also be higher. Using the WITS simulation, the import tariff revenue loss of Malaysia is estimated. The results are reported in Appendix Table A.4. The total import tariff revenue loss to Malaysia by entering the CPTPP will be of around US\$1.6 billion per year, of which 26% of tariff revenue loss will be from removing custom duties on vehicles followed by plastics and articles thereof and machinery and mechanical appliances (Table 11).

Table 11: Potential Tariff Revenue Loss to Malaysia if it ratifies the CPTPP

| S.No | HS |  | Total Tariff Revenue<br>Loss (US\$1000) | % of Total<br>Tariff<br>Revenue<br>Loss |
|------|----|--|---|---|
|      |    | Total  | -1 643 003                              |   |
| 1    | 87 | vehicles other than railway or tramway rolling stock, and parts and accessories thereof  | -422 413                                | 26                                      |
| 2    | 39 | plastics and articles thereof  | -150 164                                | 9                                       |
| 3    | 84 | nuclear reactors, boilers, machinery and mechanical appliances; parts thereof  | -132 047                                | 8                                       |
| 4    | 72 | iron and steel   | -122 065                                | 7                                       |
| 5    | 85 | electrical machinery and equipment and parts thereof;<br>sound recorders and reproducers, television image and<br>sound recorders and reproducers, and parts and<br>accessories of such articles | -113 961                                | 7                                       |
| 6    | 40 | rubber and articles thereof  | -82 654                                 | 5                                       |
| 7    | 76 | aluminium and articles thereof   | -79 676                                 | 5                                       |
| 8    | 73 | articles of iron or steel  | -68 868                                 | 4                                       |
| 9    | 10 | Cereals  | -49 474                                 | 3                                       |
| 10   | 48 | paper and paperboard; articles of paper pulp, of paper or of paperboard  | -47 839                                 | 3                                       |

#### 7. Conclusion and the Way Forward

In the scenario of a growing number of bilateral and regional free trade agreements, mega regional trade agreements like the CPTPP pose new challenges for the developing countries. Not only do these agreements stretch trade liberalization beyond the existing limits, they take away important policy space of the governments for regulating their imports to protect their domestic industry and to promote their exports in order to generate employment. Custom duties are an important policy tool in the hands of the governments which not only generate revenue but also leverage domestic production and employment. In this context, this paper estimates the impact of the CPTPP and associated full trade liberalization on Malaysia's merchandise balance of trade.

Using SMART simulations, the results show that if Malaysia enters the CPTPP it will experience a surge in its imports amounting to around US\$2.5 billion, i.e., a 6% rise in its imports while its exports rise only marginally by around 0.2% from CPTPP countries. The reason for this being that Malaysia already has existing FTAs with its major export markets in the CPTPP namely Japan, Singapore and Australia which together account for 84% of Malaysia's exports to CPTPP. The associated trade balance of Malaysia will fall by US\$2.4 billion if Malaysia ratifies the CPTPP, which is 13% of its

existing trade balance. If Malaysia does not ratify the CPTPP, Malaysia's trade balance will fall marginally by 0.2% (US\$53 million).

More importantly, remaining out of the CPTPP not only has a lower adverse impact on Malaysia' trade balance, it also provides the much-needed policy space to Malaysia for designing its industrial and trade policies. With the advent of the digital industrial revolution developing countries are fast losing their trade competitiveness, even in their traditional export sectors. The rising digital divide is providing a competitive edge to developed countries as they are steadily increasing the digital content in all stages of their manufacturing production. For example, Big data analytics along with artificial intelligence is being used in the pre-production stage; robotics and 3D printing in the production stage and e-commerce and internet of things in the post production stage.

The rising use of digital technologies and increasing product digitalization require developing countries to re-think their existing industrial and trade policies with the objective of increasing their trade competitiveness through higher use of digital technologies and digital services<sup>5</sup>. The CPTPP chapters have some binding commitments especially in the area of zero customs duties on electronic transmissions which has the potential of eroding all the negotiated industrial tariffs in the trade agreements whether at the regional level or at the WTO<sup>6</sup>. The growing trade in electronic transmissions implies that the core resources of digital industrial revolution namely data, software and computeraided design files (CAD files) used in 3D printing are increasingly being electronically transmitted. This may provide higher market access to the foreign suppliers in the developing countries as they will be able to manufacture products within the national boundaries of the developing counties without their physical presence. They can electronically transmit the software and CAD files and 3D print the currently manufactured products. While 3D printing is still considered to be catering to the niche markets, its market has grown annually by 22% in the period 2014-2018<sup>7</sup>. It is estimated that if current growth of investments in 3D printing continues, 50% of the manufactured goods will be 'printed' in 2060 and if investments in 3D printing doubles, this target will be achieved in 2040 (ING, 2017)<sup>8</sup>. This will wipe out almost 40% of cross-border physical global trade. The fourth digital industrial revolution is fast changing the landscape of international trade. While traditional indicators of trade competitiveness like balance of trade are still important inputs into the policy making of developing countries, there is a need to go beyond raising the trade balance to preserving policy space for regulating trade in the digital world.

<sup>&</sup>lt;sup>5</sup> Banga (2018)

<sup>&</sup>lt;sup>6</sup> For detailed discussion on this see Banga (2019)

Statista (https://www.statista.com/statistics/796237/worldwide-forecast-growth-3d-printing-market/)

<sup>&</sup>lt;sup>8</sup> ING (2017), "3D printing: a threat to global trade" https://www.ing.nl/media/ING\_EBZ\_3d-printing\_tcm162-131996.pdf

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# Appendix

Table A.1 Malaysia's Exports and Imports at the Product-Level to CPTPP Countries and their Share in Malaysia's Global Exports and Imports in 2017

| Produ | ProductCode  |                        | Share of<br>CPTPP   | Exports of Malaysia in | Share of CPTPP |
|-------|--|------------------------|---------------------|------------------------|----------------|
|       |  | Malaysia<br>from CPTPP | Countries           | 2017 to                | Countries      |
|       |  | countries IN           | in                  | CPTPP                  | in             |
|       |  | 2017                   | Malaysia's          | Countries              | Malaysia's     |
|       |  | (US\$1000)             | Global              | (US\$1000)             | Global         |
| -     |  |                        | Imports in 2017 (%) |                        | Exports        |
| 1     | live animals   | 38 048                 | 61                  | 172 563                | 95             |
| 2     | meat and edible meat offal   | 323 009                | 35                  | 23 551                 | 64             |
| 3     | fish and crustaceans, molluscs and other aquatic invertebrates   | 191 410                | 24                  | 288 853                | 57             |
| 4     | dairy produce; birds' eggs; natural honey; edible<br>products of animal origin, not elsewhere specified<br>or included   | 588 000                | 67                  | 159 577                | 34             |
| 5     | products of animal origin, not elsewhere specified or included   | 13 581                 | 52                  | 1 134                  | 13             |
| 6     | live trees and other plants; bulbs, roots and the like; cut flowers and ornamental foliage                               | 219                    | 2                   | 114 702                | 83             |
| 7     | edible vegetables and certain roots and tubers   | 87 784                 | 9                   | 133 486                | 50             |
| 8     | edible fruit and nuts; peel of citrus fruit or melons  | 105 660                | 15                  | 79 515                 | 45             |
| 9     | coffee, tea, maté and spices   | 99 586                 | 19                  | 66 249                 | 53             |
| 10    | cereals  | 400 916                | 28                  | 9 609                  | 72             |
| 11    | products of the milling industry; malt; starches; inulin; wheat gluten   | 82 135                 | 20                  | 42 856                 | 45             |
| 12    | oil seeds and oleaginous fruits; miscellaneous grains, seeds and fruit; industrial or medicinal plants; straw and fodder | 108 210                | 18                  | 19 230                 | 36             |
| 13    | lac; gums, resins and other vegetable saps and extracts  | 5 612                  | 10                  | 1 452                  | 13             |
| 14    | vegetable plaiting materials; vegetable products not elsewhere specified or included                                     | 24                     | 1                   | 24 800                 | 37             |
| 15    | animal or vegetable fats and oils and their cleavage products; prepared edible fats; animal or vegetable waxes           | 102 635                | 6                   | 1 604 384              | 12             |
| 16    | preparations of meat, of fish or of crustaceans, molluscs or other aquatic invertebrates                                 | 25 072                 | 17                  | 122 689                | 44             |
| 17    | sugars and sugar confectionery   | 62 043                 | 6                   | 69 584                 | 30             |
| 18    | cocoa and cocoa preparations   | 66 243                 | 7                   | 510 882                | 40             |
| 19    | preparations of cereals, flour, starch or milk; pastrycooks' products  | 183 068                | 25                  | 391 587                | 29             |
| 20    | preparations of vegetables, fruit, nuts or other parts of plants   | 26 984                 | 8                   | 75 468                 | 46             |
| 21    | miscellaneous edible preparations  | 236 944                | 25                  | 394 106                | 29             |
| 22    | beverages, spirits and vinegar   | 168 937                | 27                  | 458 338                | 59             |

| 23 | residues and waste from the food industries; prepared animal fodder  | 123 299   | 11 | 159 634    | 37 |
|----|--|-----------|----|------------|----|
| 24 | tobacco and manufactured tobacco substitutes   | 29 994    | 12 | 78 789     | 32 |
| 25 | salt; sulphur; earths and stone; plastering materials, lime and cement   | 82 604    | 19 | 157 726    | 48 |
| 26 | ores, slag and ash   | 391 275   | 21 | 72 332     | 5  |
| 27 | mineral fuels, mineral oils and products of their distillation; bituminous substances; mineral waxes   | 9 002 963 | 36 | 17 063 108 | 52 |
| 28 | inorganic chemicals; organic or inorganic<br>compounds of precious metals, of rare-earth<br>metals, of radioactive elements or of isotopes   | 847 739   | 37 | 249 868    | 29 |
| 29 | organic chemicals  | 936 875   | 26 | 734 775    | 19 |
| 30 | pharmaceutical products  | 155 371   | 12 | 107 151    | 46 |
| 31 | fertilisers  | 250 619   | 25 | 192 812    | 34 |
| 32 | tanning or dyeing extracts; tannins and their<br>derivatives; dyes, pigments and other colouring<br>matter; paints and varnishes; putty and other<br>mastics; inks   | 277 444   | 33 | 272 222    | 40 |
| 33 | essential oils and resinoids; perfumery, cosmetic or toilet preparations   | 210 055   | 21 | 133 412    | 40 |
| 34 | soap, organic surface-active agents, washing preparations, lubricating preparations, artificial waxes, prepared waxes, polishing or scouring preparations, candles and similar articles, modelling pastes, 'dental waxes' and dental preparation | 183 855   | 30 | 171 266    | 18 |
| 35 | albuminoidal substances; modified starches; glues; enzymes   | 58 702    | 20 | 45 819     | 26 |
| 36 | explosives; pyrotechnic products; matches; pyrophoric alloys; certain combustible preparations   | 3 495     | 16 | 3 925      | 28 |
| 37 | photographic or cinematographic goods  | 45 261    | 41 | 37 162     | 19 |
| 38 | miscellaneous chemical products  | 462 524   | 15 | 843 582    | 20 |
| 39 | plastics and articles thereof  | 1 903 226 | 25 | 2 402 583  | 32 |
| 40 | rubber and articles thereof  | 556 109   | 14 | 866 224    | 12 |
| 41 | raw hides and skins (other than furskins) and leather  | 4 476     | 5  | 4 774      | 18 |
| 42 | articles of leather; saddlery and harness; travel goods, handbags and similar containers; articles of animal gut (other than silkworm gut)   | 51 367    | 10 | 30 420     | 48 |
| 43 | furskins and artificial fur; manufactures thereof  | 4 311     | 11 | 3 138      | 7  |
| 44 | wood and articles of wood; wood charcoal   | 136 572   | 20 | 1 147 275  | 33 |
| 45 | cork and articles of cork  | 1 775     | 64 | 8          | 3  |
| 46 | manufactures of straw, of esparto or of other plaiting materials; basketware and wickerwork  | 2 319     | 30 | 665        | 49 |
| 47 | pulp of wood or of other fibrous cellulosic<br>material; recovered (waste and scrap) paper or<br>paperboard  | 59 538    | 32 | 565        | 26 |
| 48 | paper and paperboard; articles of paper pulp, of paper or of paperboard  | 348 004   | 19 | 479 009    | 52 |

| products of the printing industry; manuscripts,   |    |  |           |    |           |    |
|---|----|--|-----------|----|-----------|----|
| 50   silk   | 49 |  | 34 680    | 17 | 82 203    | 25 |
| Solution   Solution | 50 |  | 25        | 0  | 401       | -  |
| and woven fabric  |    |  |           | Ť  |           |    |
| 153   other vegetable textile fibres; paper yarn and woven fabrics of paper yarn  |    |  |           |    |           |    |
| woven fabrics of paper yarm   | 52 | cotton   | 84 979    | 19 | 46 419    | 18 |
| made textile materials   29 812   19   84 453   26  | 53 |  | 153       | 3  |           | 7  |
| 22 348   12   | 54 |  |           |    |           | 16 |
| cordage, ropes and cables and articles thereof   2   348   2   13 247   74  | 55 | man-made staple fibres   | 29 812    | 19 | 84 453    | 26 |
| S8   Special woven fabrics; tufted textile fabrics; lace; tapestries; trimmings; embroidery   S9   impregnated, coated, covered or laminated textile fabrics; textile articles of a kind suitable for industrial use   S8   S9   S82   T   S8   S83   S8   S8   S8   S8   S8   S  | 56 |  | 22 348    | 12 | 111 046   | 45 |
| Lapestries; trimmings; embroidery   Embroidery   Impregnated, coated, covered or laminated textile fabrics; textile articles of a kind suitable for industrial use   21 158   12  | 57 | carpets and other textile floor coverings  | 2 348     | 2  | 13 247    | 74 |
| 17   18   18   19   19   19   19   19   19  | 58 |  | 2 943     | 6  | 4 352     | 26 |
| 61         articles of apparel and clothing accessories, knitted or crocheted         83 899         9         241 091         25           62         articles of apparel and clothing accessories, not knitted or crocheted         73 566         11         59 223         17           63         other made-up textile articles; rags and worn textile articles; rags and worn textile articles; rags and worn textile articles; rags         32         44 593         22           64         footwear, gaiters and the like; parts of such articles         136 932         22         61 365         41           65         headgear and parts thereof         3 587         12         24 830         64           66         umbrellas, sun umbrellas, walking sticks, seatsticks, whips, riding-crops and parts thereof         159         1         442         48           67         prepared feathers and down and articles made of feathers or of down; artificial flowers; articles of human hair         183         1         734         48           68         articles of stone, plaster, cement, asbestos, mica or similar materials         27 099         8         102 953         40           70         glass and glassware         291 702         33         249 194         26           71         natural or cultured pearls, precious or semiprecious stones, precious metals, metals clad with  | 59 | impregnated, coated, covered or laminated textile fabrics; textile articles of a kind suitable for   | 21 158    | 12 | 17 430    | 23 |
| 62         articles of apparel and clothing accessories, not knitted or crocheted         73 566         11         59 223         17           63         other made-up textile articles; sets; worn clothing and worn textile articles; rags         151 375         32         44 593         22           64         footwear, gaiters and the like; parts of such articles         136 932         22         61 365         41           65         headgear and parts thereof         3 587         12         24 830         64           66         umbrellas, sun umbrellas, walking sticks, seat-sticks, whips, riding-crops and parts thereof         159         1         442         48           67         prepared feathers and down and articles made of feathers or of down; artificial flowers; articles of human hair         183         1         734         48           68         articles of stone, plaster, cement, asbestos, mica or similar materials         27 099         8         102 953         40           70         glass and glassware         291 702         33         249 194         26           71         natural or cultured pearls, precious or semi-precious stones, precious metals, metals clad with precious metal, and articles thereof; imitation jewellery; coin         1 237 241         28         893 944         30           72         iron and steel   | 60 | knitted or crocheted fabrics   | 9 382     | 7  | 28 837    | 17 |
| Rnitted or crocheted   151 375   32   44 593   22   | 61 | •  | 83 899    | 9  | 241 091   | 25 |
| and worn textile articles; rags   64   footwear, gaiters and the like; parts of such articles   136 932   22   61 365   41     65   headgear and parts thereof   3 587   12   24 830   64     66   umbrellas, sun umbrellas, walking sticks, seat-sticks, whips, riding-crops and parts thereof   183   1   442   48     67   prepared feathers and down and articles made of feathers or of down; artificial flowers; articles of human hair   183   1   734   48     68   articles of stone, plaster, cement, asbestos, mica or similar materials   27 099   8   102 953   40     70   glass and glassware   291 702   33   249 194   26     71   natural or cultured pearls, precious or semi-precious stones, precious metals, metals clad with precious metal, and articles thereof; imitation jewellery; coin   1 346 723   26   460 179   20     72   iron and steel   1 346 723   26   460 179   20     73   articles of iron or steel   840 071   28   1 007 867   49     74   copper and articles thereof   1 407 777   41   477 569   22     75   nickel and articles thereof   190 313   69   35 232   6     76   aluminium and articles thereof   407 403   16   761 388   24     78   lead and articles thereof   16 248   19   24 987   11   | 62 |  | 73 566    | 11 | 59 223    | 17 |
| 65         headgear and parts thereof         3 587         12         24 830         64           66         umbrellas, sun umbrellas, walking sticks, seat-sticks, whips, riding-crops and parts thereof         159         1         442         48           67         prepared feathers and down and articles made of feathers or of down; artificial flowers; articles of human hair         183         1         734         48           68         articles of stone, plaster, cement, asbestos, mica or similar materials         27 099         8         102 953         40           70         glass and glassware         291 702         33         249 194         26           71         natural or cultured pearls, precious or semi-precious stones, precious metals, metals clad with precious metal, and articles thereof; imitation jewellery; coin         1 237 241         28         893 944         30           72         iron and steel         1 346 723         26         460 179         20           73         articles of iron or steel         840 071         28         1 007 867         49           74         copper and articles thereof         1 407 777         41         477 569         22           75         nickel and articles thereof         190 313         69         35 232         6 <td< td=""><td>63</td><td></td><td>151 375</td><td>32</td><td>44 593</td><td>22</td></td<>  | 63 |  | 151 375   | 32 | 44 593    | 22 |
| 66         umbrellas, sun umbrellas, walking sticks, seat-sticks, whips, riding-crops and parts thereof         1         442         48           67         prepared feathers and down and articles made of feathers or of down; artificial flowers; articles of human hair         183         1         734         48           68         articles of stone, plaster, cement, asbestos, mica or similar materials         27 099         8         102 953         40           69         ceramic products         27 099         8         102 953         40           70         glass and glassware         291 702         33         249 194         26           71         natural or cultured pearls, precious or semi-precious stones, precious metals, metals clad with precious metal, and articles thereof; imitation jewellery; coin         1 237 241         28         893 944         30           72         iron and steel         1 346 723         26         460 179         20           73         articles of iron or steel         840 071         28         1 007 867         49           74         copper and articles thereof         1 407 777         41         477 569         22           75         nickel and articles thereof         190 313         69         35 232         6           76         aluminium   | 64 | footwear, gaiters and the like; parts of such articles   | 136 932   | 22 | 61 365    | 41 |
| sticks, whips, riding-crops and parts thereof         183         1         734         48           67         prepared feathers and down and articles made of feathers or of down; artificial flowers; articles of human hair         183         1         734         48           68         articles of stone, plaster, cement, asbestos, mica or similar materials         27 099         8         102 953         40           69         ceramic products         27 099         8         102 953         40           70         glass and glassware         291 702         33         249 194         26           71         natural or cultured pearls, precious or semi-precious stones, precious metals, metals clad with precious metal, and articles thereof; imitation jewellery; coin         1 237 241         28         893 944         30           72         iron and steel         1 346 723         26         460 179         20           73         articles of iron or steel         840 071         28         1 007 867         49           74         copper and articles thereof         1 407 777         41         477 569         22           75         nickel and articles thereof         190 313         69         35 232         6           76         aluminium and articles thereof         407 403  | 65 | headgear and parts thereof   | 3 587     | 12 | 24 830    | 64 |
| 67       prepared feathers and down and articles made of feathers or of down; artificial flowers; articles of human hair       183       1       734       48         68       articles of stone, plaster, cement, asbestos, mica or similar materials       27 099       8       102 953       40         69       ceramic products       27 099       8       102 953       40         70       glass and glassware       291 702       33       249 194       26         71       natural or cultured pearls, precious or semi-precious stones, precious metals, metals clad with precious metal, and articles thereof; imitation jewellery; coin       1 237 241       28       893 944       30         72       iron and steel       1 346 723       26       460 179       20         73       articles of iron or steel       840 071       28       1 007 867       49         74       copper and articles thereof       1 407 777       41       477 569       22         75       nickel and articles thereof       190 313       69       35 232       6         76       aluminium and articles thereof       407 403       16       761 388       24         78       lead and articles thereof       16 248       19       24 987       11  | 66 |  | 159       | 1  | 442       | 48 |
| similar materials         27 099         8         102 953         40           70         glass and glassware         291 702         33         249 194         26           71         natural or cultured pearls, precious or semi-precious stones, precious metals, metals clad with precious metal, and articles thereof; imitation jewellery; coin         1 237 241         28         893 944         30           72         iron and steel         1 346 723         26         460 179         20           73         articles of iron or steel         840 071         28         1 007 867         49           74         copper and articles thereof         1 407 777         41         477 569         22           75         nickel and articles thereof         190 313         69         35 232         6           76         aluminium and articles thereof         407 403         16         761 388         24           78         lead and articles thereof         16 248         19         24 987         11   | 67 | prepared feathers and down and articles made of feathers or of down; artificial flowers; articles of | 183       | 1  | 734       | 48 |
| 70   glass and glassware   291 702   33   249 194   26     71   natural or cultured pearls, precious or semi- precious stones, precious metals, metals clad with precious metal, and articles thereof; imitation jewellery; coin   1 346 723   26   460 179   20     72   iron and steel   840 071   28   1 007 867   49     74   copper and articles thereof   1 407 777   41   477 569   22     75   nickel and articles thereof   190 313   69   35 232   6     76   aluminium and articles thereof   407 403   16   761 388   24     78   lead and articles thereof   16 248   19   24 987   11     70   20   20   20   20     71   20   20   20     72   21   22   23     73   24   27   28   893 944   30     74   25   26   460 179   20     75   26   460 179   20     76   31   31   31   31     77   31   31   31     78   31   31   31     78   31   31     79   24 987   31     70   31   31     71   32   33     72   31     73   31     74   477 569   22     75   31     76   31     77   31     78   31     78   31     78   31     78   31     78   31     78   31     79   32     70   31     | 68 | articles of stone, plaster, cement, asbestos, mica or  | 43 532    | 15 | 345 385   | 75 |
| 71       natural or cultured pearls, precious or semi-precious stones, precious metals, metals clad with precious metal, and articles thereof; imitation jewellery; coin       1 237 241       28       893 944       30         72       iron and steel       1 346 723       26       460 179       20         73       articles of iron or steel       840 071       28       1 007 867       49         74       copper and articles thereof       1 407 777       41       477 569       22         75       nickel and articles thereof       190 313       69       35 232       6         76       aluminium and articles thereof       407 403       16       761 388       24         78       lead and articles thereof       16 248       19       24 987       11  | 69 | ceramic products   | 27 099    | 8  | 102 953   | 40 |
| precious stones, precious metals, metals clad with precious metal, and articles thereof; imitation jewellery; coin       1 346 723       26       460 179       20         72 iron and steel       840 071       28       1 007 867       49         74 copper and articles thereof       1 407 777       41       477 569       22         75 nickel and articles thereof       190 313       69       35 232       6         76 aluminium and articles thereof       407 403       16       761 388       24         78 lead and articles thereof       16 248       19       24 987       11   | 70 | glass and glassware  | 291 702   | 33 | 249 194   | 26 |
| 73       articles of iron or steel       840 071       28       1 007 867       49         74       copper and articles thereof       1 407 777       41       477 569       22         75       nickel and articles thereof       190 313       69       35 232       6         76       aluminium and articles thereof       407 403       16       761 388       24         78       lead and articles thereof       16 248       19       24 987       11   | 71 | precious stones, precious metals, metals clad with precious metal, and articles thereof; imitation   |           | 28 | 893 944   | 30 |
| 74       copper and articles thereof       1 407 777       41       477 569       22         75       nickel and articles thereof       190 313       69       35 232       6         76       aluminium and articles thereof       407 403       16       761 388       24         78       lead and articles thereof       16 248       19       24 987       11  | 72 | iron and steel   | 1 346 723 | 26 | 460 179   | 20 |
| 75       nickel and articles thereof       190 313       69       35 232       6         76       aluminium and articles thereof       407 403       16       761 388       24         78       lead and articles thereof       16 248       19       24 987       11   | 73 | articles of iron or steel  | 840 071   | 28 | 1 007 867 | 49 |
| 76       aluminium and articles thereof       407 403       16       761 388       24         78       lead and articles thereof       16 248       19       24 987       11  | 74 | copper and articles thereof  | 1 407 777 | 41 | 477 569   | 22 |
| 78 lead and articles thereof 16 248 19 24 987 11  | 75 | nickel and articles thereof  | 190 313   | 69 | 35 232    | 6  |
| 78 lead and articles thereof 16 248 19 24 987 11  | 76 | aluminium and articles thereof   | 407 403   | 16 | 761 388   | 24 |
|   | 78 | lead and articles thereof  | 16 248    | 19 | 24 987    | 11 |
|   | 79 | zinc and articles thereof  | 94 221    | 22 | 74 685    | 20 |

| 80 | tin and articles thereof   | 41 715     | 22 | 110 816    | 19 |
|----|--|------------|----|------------|----|
| 81 | other base metals; cermets; articles thereof   | 16 113     | 23 | 11 153     | 36 |
| 82 | tools, implements, cutlery, spoons and forks, of base metal; parts thereof of base metal   | 171 527    | 35 | 74 665     | 37 |
| 83 | miscellaneous articles of base metal   | 56 889     | 13 | 132 442    | 48 |
| 84 | nuclear reactors, boilers, machinery and mechanical appliances; parts thereof  | 4 964 204  | 22 | 6 366 778  | 27 |
| 85 | electrical machinery and equipment and parts<br>thereof; sound recorders and reproducers,<br>television image and sound recorders and<br>reproducers, and parts and accessories of such<br>articles  | 13 745 453 | 25 | 20 728 599 | 30 |
| 86 | railway or tramway locomotives, rolling stock and parts thereof; railway or tramway track fixtures and fittings and parts thereof; mechanical (including electromechanical) traffic signalling equipment of all kinds                          | 19 685     | 20 | 3 260      | 5  |
| 87 | vehicles other than railway or tramway rolling stock, and parts and accessories thereof  | 1 515 998  | 28 | 299 438    | 18 |
| 88 | aircraft, spacecraft, and parts thereof  | 194 158    | 6  | 520 819    | 26 |
| 89 | ships, boats and floating structures   | 52 979     | 4  | 62 126     | 25 |
| 90 | optical, photographic, cinematographic, measuring, checking, precision, medical or surgical instruments and apparatus; parts and accessories thereof   | 1 535 436  | 28 | 2 039 255  | 26 |
| 91 | clocks and watches and parts thereof   | 258 561    | 47 | 187 344    | 75 |
| 92 | musical instruments; parts and accessories of such articles  | 8 466      | 14 | 33 493     | 27 |
| 93 | arms and ammunition; parts and accessories thereof   | 121        | 1  | 58         | 1  |
| 94 | furniture; bedding, mattresses, mattress supports, cushions and similar stuffed furnishings; lamps and lighting fittings, not elsewhere specified or included; illuminated signs, illuminated nameplates and the like; prefabricated buildings | 115 670    | 11 | 779 333    | 30 |
| 95 | toys, games and sports requisites; parts and accessories thereof   | 98 704     | 18 | 106 328    | 30 |
| 96 | miscellaneous manufactured articles  | 79 318     | 22 | 136 590    | 38 |
| 97 | works of art, collectors' pieces and antiques  | 643        | 4  | 718        | 26 |
|    | total/average  | 48 545 358 | 21 | 66 942 848 | 33 |

 Table A. 2 : Change in Malaysia's Imports post the CPTPP -Product-Wise

| Chapter |   | Imports<br>Before CPTPP<br>(US\$1000)<br>(2016) | Imports after<br>CPTPP<br>(US\$1000) | Change in Imports post<br>CPTPP<br>(US\$1000) |
|---------|---|---|--------------------------------------|---|
| 87      | vehicles other than railway or tramway rolling stock, and parts and accessories thereof   | 1 794 805                                       | 2 436 822                            | 642 017                                       |
| 39      | plastics and articles thereof   | 1 325 380                                       | 1 562 165                            | 236 785                                       |
| 84      | nuclear reactors, boilers, machinery and mechanical appliances; parts thereof   | 1 353 111                                       | 1 585 407                            | 232 296                                       |
| 85      | electrical machinery and equipment and parts<br>thereof; sound recorders and reproducers,<br>television image and sound recorders and<br>reproducers, and parts and accessories of such<br>articles | 994 438   | 1 180 381                            | 185 943                                       |
| 72      | iron and steel  | 918 529   | 1 097 007                            | 178 478                                       |
| 76      | aluminium and articles thereof  | 260 588   | 373 546                              | 112 958                                       |
| 71      | natural or cultured pearls, precious or semi-<br>precious stones, precious metals, metals clad with<br>precious metal, and articles thereof; imitation<br>jewellery; coin                           | 443 476   | 539 632                              | 96 156  |
| 40      | rubber and articles thereof   | 328 741   | 424 852                              | 96 111  |
| 73      | articles of iron or steel   | 657 981   | 749 545                              | 91 564  |
| 48      | paper and paperboard; articles of paper pulp, of paper or of paperboard   | 309 558   | 385 994                              | 76 437  |
| 70      | glass and glassware   | 247 616   | 304 324                              | 56 709  |
| 27      | mineral fuels, mineral oils and products of their distillation; bituminous substances; mineral waxes  | 5 560 478                                       | 5 613 275                            | 52 797  |
| 35      | albuminoidal substances; modified starches; glues; enzymes  | 38 742  | 81 794                               | 43 052  |
| 32      | tanning or dyeing extracts; tannins and their<br>derivatives; dyes, pigments and other colouring<br>matter; paints and varnishes; putty and other<br>mastics; inks                                  | 147 642   | 189 642                              | 42 001  |
| 21      | miscellaneous edible preparations   | 250 262   | 291 053                              | 40 791  |
| 10      | Cereals   | 92 746  | 129 397                              | 36 651  |
| 28      | inorganic chemicals; organic or inorganic   | 66 414  | 97 758                               | 31 345  |
| 44      | wood and articles of wood; wood charcoal  | 50 993  | 80 434                               | 29 441  |
| 38      | miscellaneous chemical products   | 139 007   | 162 121                              | 23 113  |
| 83      | miscellaneous articles of base metal  | 53 682  | 75 281                               | 21 599  |
| 69      | ceramic products  | 26 515  | 47 526                               | 21 011  |

| 96 | miscellaneous manufactured articles  | 56 965  | 74 110  | 17 145 |
|----|--|---------|---------|--------|
| 94 | furniture; bedding, mattresses, mattress supports, cushions and similar stuffed furnishings; lamps and lighting fittings, not elsewhere specified or included; illuminated signs, illuminated nameplates and the like; prefabricated buildings | 66 699  | 82 692  | 15 993 |
| 74 | copper and articles thereof  | 50 445  | 64 367  | 13 922 |
| 82 | tools, implements, cutlery, spoons and forks, of<br>base metal; parts thereof of base metal  | 155 662 | 169 474 | 13 811 |
| 18 | cocoa and cocoa preparations   | 52 634  | 65 106  | 12 472 |
| 34 | soap, organic surface-active agents, washing preparations, lubricating preparations, artificial  | 81 653  | 93 083  | 11 430 |
| 56 | wadding, felt and nonwovens; special yarns; twine, cordage, ropes and cables and articles thereof  | 29 611  | 40 071  | 10 460 |
| 68 | articles of stone, plaster, cement, asbestos, mica or similar materials  | 28 595  | 38 922  | 10 327 |
| 52 | Cotton   | 56 599  | 66 199  | 9 600  |
| 81 | other base metals; cermets; articles thereof   | 30 128  | 38 961  | 8 833  |
| 54 | man-made filaments; strip and the like of man-<br>made textile materials   | 35 372  | 42 783  | 7 411  |
| 19 | preparations of cereals, flour, starch or milk; pastrycooks' products  | 105 493 | 112 774 | 7 281  |
| 63 | other made-up textile articles; sets; worn clothing and worn textile articles; rags  | 23 545  | 30 163  | 6 618  |
| 80 | tin and articles thereof   | 64 355  | 70 746  | 6 391  |
| 25 | salt; sulphur; earths and stone; plastering materials, lime and cement   | 7 082   | 11 799  | 4 717  |
| 17 | sugars and sugar confectionery   | 17 822  | 22 138  | 4 316  |
| 22 | beverages, spirits and vinegar   | 9 984   | 14 263  | 4 279  |
| 95 | toys, games and sports requisites; parts and accessories thereof   | 12 915  | 17 019  | 4 104  |
| 15 | animal or vegetable fats and oils and their cleavage products; prepared edible fats; animal or vegetable   | 40 656  | 43 982  | 3 326  |
| 55 | man-made staple fibres   | 20 047  | 23 192  | 3 144  |
| 90 | optical, photographic, cinematographic, measuring, checking, precision, medical or surgical instruments and apparatus; parts and accessories thereof   | 23 566  | 26 481  | 2 915  |
| 60 | knitted or crocheted fabrics   | 8 744   | 11 428  | 2 684  |
| 37 | photographic or cinematographic goods  | 8 976   | 11 106  | 2 130  |

| 49 | printed books, newspapers, pictures and other products of the printing industry; manuscripts, typescripts and plans   | 8 993  | 11 028 | 2 035 |
|----|---|--------|--------|-------|
| 20 | preparations of vegetables, fruit, nuts or other parts of plants  | 22 090 | 24 122 | 2 031 |
| 30 | pharmaceutical products   | 8 000  | 9 740  | 1 740 |
| 58 | special woven fabrics; tufted textile fabrics; lace; tapestries; trimmings; embroidery  | 4 467  | 5 959  | 1 491 |
| 86 | railway or tramway locomotives, rolling stock and parts thereof; railway or tramway track fixtures and fittings and parts thereof; mechanical (including electromechanical) traffic signalling equipment of all kinds | 9 162  | 10 580 | 1 418 |
| 89 | ships, boats and floating structures  | 5 524  | 6 520  | 996   |
| 59 | impregnated, coated, covered or laminated textile fabrics; textile articles of a kind suitable for industrial use   | 2 044  | 2 884  | 840   |
| 29 | organic chemicals   | 7 746  | 8 562  | 816   |
| 79 | zinc and articles thereof   | 4 050  | 4 847  | 796   |
| 36 | explosives; pyrotechnic products; matches; pyrophoric alloys; certain combustible preparations  | 3 492  | 4 102  | 610   |
| 92 | musical instruments; parts and accessories of such articles   | 1 749  | 2 278  | 529   |
| 57 | carpets and other textile floor coverings   | 1 568  | 2 062  | 494   |
| 46 | manufactures of straw, of esparto or of other plaiting materials; basketware and wickerwork   | 843    | 1 284  | 442   |
| 78 | lead and articles thereof   | 1 070  | 1 365  | 295   |
| 16 | preparations of meat, of fish or of crustaceans, molluscs or other aquatic invertebrates  | 6 607  | 6 880  | 273   |
| 64 | footwear, gaiters and the like; parts of such articles  | 125    | 344    | 218   |
| 12 | oil seeds and oleaginous fruits; miscellaneous grains, seeds and fruit; industrial or medicinal plants; straw and fodder  | 2 039  | 2 231  | 192   |
| 67 | prepared feathers and down and articles made of feathers or of down; artificial flowers; articles of human hair   | 372    | 494    | 122   |
| 91 | clocks and watches and parts thereof  | 314    | 436    | 122   |
| 93 | arms and ammunition; parts and accessories thereof  | 290    | 374    | 83    |
| 66 | umbrellas, sun umbrellas, walking sticks, seat-<br>sticks, whips, riding-crops and parts thereof  | 179    | 262    | 83    |

| 62 | articles of apparel and clothing accessories, not knitted or crocheted | 483        | 559        | 76        |
|----|--|------------|------------|-----------|
| 61 | articles of apparel and clothing accessories, knitted or crocheted     | 58         | 120        | 62        |
| 88 | aircraft, spacecraft, and parts thereof                                | 106        | 153        | 47        |
| 45 | cork and articles of cork  | 137        | 172        | 35        |
| 11 | products of the milling industry; malt; starches; inulin; wheat gluten | 125        | 138        | 13        |
| 97 | works of art, collectors' pieces and antiques                          | 64         | 72         | 9         |
| 31 | Fertilisers  | 101        | 105        | 3         |
| 50 | Silk   | 14         | 17         | 3         |
|    | Total  | 16 122 309 | 18 665 339 | 2 543 030 |

Table A. 3: Change in Malaysia's Exports post the CPTPP -Product-Wise and Country Wise

|        | Product<br>Code | product description  | Exports<br>Before the<br>CPTPP<br>(US\$1000) | Exports<br>After the<br>CPTPP<br>(US\$1000) | Export<br>Change In<br>Revenue<br>post<br>CPTPP | %<br>Change |
|--------|-----------------|--|--|---|---|-------------|
| Canada | 40              | rubber and articles thereof  | 86 078                                       | 96 408                                      | 10 329  | 12          |
| Canada | 61              | articles of apparel and clothing accessories, knitted or crocheted   | 16 774                                       | 22 477                                      | 5 703   | 34          |
| Canada | 94              | furniture; bedding, mattresses,<br>mattress supports, cushions and<br>similar stuffed furnishings; lamps<br>and lighting fittings, not elsewhere<br>specified or included; illuminated<br>signs, illuminated nameplates and<br>the like; prefabricated buildings | 74 531                                       | 79 003                                      | 4 472   | 6           |
| Canada | 85              | electrical machinery and equipment<br>and parts thereof; sound recorders<br>and reproducers, television image<br>and sound recorders and<br>reproducers, and parts and<br>accessories of such articles   | 218 499                                      | 220 684                                     | 2 185   | 1           |
| Canada | 62              | articles of apparel and clothing accessories, not knitted or crocheted   | 5 059  | 6 931                                       | 1 872   | 37          |
| Canada | 15              | animal or vegetable fats and oils<br>and their cleavage products;<br>prepared edible fats; animal or<br>vegetable waxes  | 17 530                                       | 19 108                                      | 1 578   | 9           |
| Chile  | 85              | electrical machinery and equipment<br>and parts thereof; sound recorders<br>and reproducers, television image<br>and sound recorders and<br>reproducers, and parts and   | 30 230                                       | 32 346                                      | 2 116   | 7           |
| Chile  | 40              | rubber and articles thereof  | 24 197                                       | 25 649                                      | 1 452   | 6           |
| Chile  | 15              | animal or vegetable fats and oils<br>and their cleavage products;<br>prepared edible fats; animal or<br>vegetable waxes  | 18 807                                       | 19 936                                      | 1 128   | 6           |
| Chile  | 94              | furniture; bedding, mattresses,<br>mattress supports, cushions and<br>similar stuffed furnishings; lamps<br>and lighting fittings, not elsewhere<br>specified or included; illuminated<br>signs, illuminated nameplates and<br>the like; prefabricated buildings | 19 531                                       | 20 508                                      | 977   | 5           |

| Chile  | 84 | nuclear reactors, boilers, machinery<br>and mechanical appliances; parts<br>thereof  | 9 368     | 10 117    | 749     | 8   |
|--------|----|--|-----------|-----------|---------|-----|
| Japan  | 44 | wood and articles of wood; wood charcoal   | 730 589   | 752 507   | 21 918  | 3   |
| Japan  | 4  | dairy produce; birds' eggs; natural<br>honey; edible products of animal<br>origin, not elsewhere specified or<br>included  | 9 350     | 26 929    | 17 579  | 188 |
| Japan  | 18 | cocoa and cocoa preparations   | 159 314   | 162 500   | 3 186   | 2   |
| Japan  | 19 | preparations of cereals, flour,<br>starch or milk; pastrycooks'<br>products  | 52 782    | 57 004    | 4 223   | 8   |
| Mexico | 85 | electrical machinery and equipment<br>and parts thereof; sound recorders<br>and reproducers, television image<br>and sound recorders and<br>reproducers, and parts and   | 1 266 394 | 1 268 261 | 1 867.7 | 0.1 |
| Mexico | 84 | nuclear reactors, boilers, machinery<br>and mechanical appliances; parts<br>thereof  | 239 887   | 241 066   | 1 179.5 | 0.5 |
| Mexico | 69 | ceramic products   | 5 426     | 7 922     | 2 496   | 46  |
| Mexico | 44 | wood and articles of wood; wood charcoal   | 29 196    | 31 531    | 2 336   | 8   |
| Mexico | 21 | miscellaneous edible preparations  | 7 950     | 9 699     | 1 749   | 22  |
| Mexico | 40 | rubber and articles thereof  | 31 108    | 32 664    | 1 555   | 5   |
| Mexico | 39 | plastics and articles thereof  | 28 529    | 29 670    | 1 141   | 4   |
| Mexico | 34 | soap, organic surface-active agents, washing preparations, lubricating preparations, artificial waxes, prepared waxes, polishing or scouring preparations, candles and similar articles, modelling pastes, 'dental waxes' and dental | 8 599     | 9 631     | 1 032   | 12  |
| Mexico | 15 | animal or vegetable fats and oils<br>and their cleavage products;<br>prepared edible fats; animal or<br>vegetable waxes  | 8 881     | 9 947     | 1 066   | 12  |
| Peru   | 85 | electrical machinery and equipment<br>and parts thereof; sound recorders<br>and reproducers, television image<br>and sound recorders and<br>reproducers, and parts and   | 29 088    | 31 124    | 2 036   | 7   |

| Peru    | 40 | rubber and articles thereof   | 14 880  | 16 071  | 1 190  | 8   |
|---------|----|---|---------|---------|--------|-----|
| Vietnam | 24 | tobacco and manufactured tobacco substitutes  | 18 538  | 91 765  | 73 226 | 395 |
| Vietnam | 55 | man-made staple fibres  | 23 933  | 31 352  | 7 419  | 31  |
| Vietnam | 84 | nuclear reactors, boilers, machinery<br>and mechanical appliances; parts<br>thereof | 523 520 | 528 755 | 5 235  | 1   |

Note: For estimating impact on exports, the exports figures of Malaysia are considered, which may be different from the import figures of the partner countries from Malaysia. Under Tobacco and manufactured tobacco substitutes, Malaysia's exports of HS 240220 (cigarettes containing tobacco) and HS240290 (other) increase.

Table A.4: Total Tariff Revenue Loss to Malaysia Post CPTPP

|    |   | Total Tariff Revenue<br>Loss (US\$1000) |
|----|---|---|
|    | Total   | -1 643 003                              |
| 87 | vehicles other than railway or tramway rolling stock, and parts and accessories thereof   | -422 413                                |
| 39 | plastics and articles thereof   | -150 164                                |
| 84 | nuclear reactors, boilers, machinery and mechanical appliances; parts thereof   | -132 047                                |
| 72 | iron and steel  | -122 065                                |
| 85 | electrical machinery and equipment and parts thereof; sound recorders and reproducers, television image and sound recorders and reproducers, and parts and accessories of such articles | -113 961                                |
| 40 | rubber and articles thereof   | -82 654                                 |
| 76 | aluminium and articles thereof  | -79 676                                 |
| 73 | articles of iron or steel   | -68 868                                 |
| 10 | cereals   | -49 474                                 |
| 48 | paper and paperboard; articles of paper pulp, of paper or of paperboard   | -47 839                                 |
| 71 | natural or cultured pearls, precious or semi-precious stones, precious metals, metals clad with precious metal, and articles thereof; imitation jewellery; coin                         | -44 579                                 |
| 70 | glass and glassware   | -43 342                                 |
| 32 | tanning or dyeing extracts; tannins and their derivatives; dyes, pigments and other colouring matter; paints and varnishes; putty and other mastics; inks                               | -32 950                                 |
| 27 | mineral fuels, mineral oils and products of their distillation; bituminous substances; mineral waxes  | -28 383                                 |
| 21 | miscellaneous edible preparations   | -24 030                                 |
| 44 | wood and articles of wood; wood charcoal  | -17 594                                 |
| 83 | miscellaneous articles of base metal  | -13 884                                 |

| 38 | miscellaneous chemical products  | -13 403 |
|----|--|---------|
|    | inorganic chemicals; organic or inorganic compounds of precious metals, of rare-earth metals, of radioactive elements or of isotopes   | -11 940 |
|    | albuminoidal substances; modified starches; glues; enzymes   | -11 516 |
|    | copper and articles thereof  | -9 528  |
|    | miscellaneous manufactured articles  | -9 323  |
|    | furniture; bedding, mattresses, mattress supports, cushions and similar stuffed furnishings; lamps and lighting fittings, not elsewhere specified or included; illuminated signs, illuminated nameplates and the like; prefabricated buildings   | -9 262  |
|    | tools, implements, cutlery, spoons and forks, of base metal; parts thereof of base metal   | -8 567  |
|    | soap, organic surface-active agents, washing preparations, lubricating preparations, artificial waxes, prepared waxes, polishing or scouring preparations, candles and similar articles, modelling pastes, 'dental waxes' and dental preparation | -8 328  |
| 68 | articles of stone, plaster, cement, asbestos, mica or similar materials  | -7 575  |
| 18 | cocoa and cocoa preparations   | -7 532  |
| 69 | ceramic products   | -7 239  |
|    | wadding, felt and nonwovens; special yarns; twine, cordage, ropes and cables and articles thereof  | -6 006  |
| 52 | cotton   | -6 005  |
| 20 | preparations of vegetables, fruit, nuts or other parts of plants   | -5 817  |
|    | other made-up textile articles; sets; worn clothing and worn textile articles; rags  | -4 611  |
|    | other base metals; cermets; articles thereof   | -4 431  |
| 19 | preparations of cereals, flour, starch or milk; pastrycooks' products  | -4 091  |
| 54 | man-made filaments; strip and the like of man-made textile materials   | -3 826  |
| 80 | tin and articles thereof   | -3 538  |
| 17 | sugars and sugar confectionery   | -3 063  |
| 95 | toys, games and sports requisites; parts and accessories thereof   | -2 857  |
|    | salt; sulphur; earths and stone; plastering materials, lime and cement   | -2 198  |
| 22 | beverages, spirits and vinegar   | -2 152  |
| 55 | man-made staple fibres   | -2 112  |
|    | animal or vegetable fats and oils and their cleavage products; prepared edible fats; animal or vegetable waxes   | -2 087  |
|    | photographic or cinematographic goods  | -1 683  |
|    | printed books, newspapers, pictures and other products of the printing industry; manuscripts, typescripts and plans  | -1 601  |
| 90 | optical, photographic, cinematographic, measuring, checking, precision, medical or surgical instruments and apparatus; parts and accessories thereof   | -1 568  |
|    | knitted or crocheted fabrics   | -1 531  |
|    | special woven fabrics; tufted textile fabrics; lace; tapestries; trimmings; embroidery   | -843    |
|    | ships, boats and floating structures   | -764    |

| 79 | zinc and articles thereof   | -600 |
|----|---|------|
| 59 | impregnated, coated, covered or laminated textile fabrics; textile articles of a kind suitable for industrial use   | -503 |
| 86 | railway or tramway locomotives, rolling stock and parts thereof; railway or tramway track fixtures and fittings and parts thereof; mechanical (including electromechanical) traffic signalling equipment of all kinds | -489 |
| 29 | organic chemicals   | -392 |
| 30 | pharmaceutical products   | -352 |
| 92 | musical instruments; parts and accessories of such articles   | -307 |
| 36 | explosives; pyrotechnic products; matches; pyrophoric alloys; certain combustible preparations  | -301 |
| 46 | manufactures of straw, of esparto or of other plaiting materials;<br>basketware and wickerwork  | -204 |
| 57 | carpets and other textile floor coverings   | -172 |
| 78 | lead and articles thereof   | -166 |
| 16 | preparations of meat, of fish or of crustaceans, molluscs or other aquatic invertebrates  | -130 |
| 12 | oil seeds and oleaginous fruits; miscellaneous grains, seeds and fruit; industrial or medicinal plants; straw and fodder  | -94  |
| 62 | articles of apparel and clothing accessories, not knitted or crocheted  | -80  |
| 91 | clocks and watches and parts thereof  | -68  |
| 67 | prepared feathers and down and articles made of feathers or of down; artificial flowers; articles of human hair   | -68  |
| 66 | umbrellas, sun umbrellas, walking sticks, seat-sticks, whips, riding-crops and parts thereof  | -44  |
| 93 | arms and ammunition; parts and accessories thereof  | -29  |
| 64 | footwear, gaiters and the like; parts of such articles  | -27  |
| 45 | cork and articles of cork   | -21  |
| 88 | aircraft, spacecraft, and parts thereof   | -19  |
| 61 | articles of apparel and clothing accessories, knitted or crocheted  | -10  |
| 97 | works of art, collectors' pieces and antiques   | -3   |
| 11 | products of the milling industry; malt; starches; inulin; wheat gluten  | -2   |
| 50 | silk  | -2   |
| 31 | fertilisers   | -1   |
|    |   |      |