

***A Roadmap to Diversifying  
Pakistan's Exports:  
Operationalizing the Product  
Space***

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## *A Roadmap to Diversifying Pakistan's Exports: Operationalizing the Product Space*

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**Abstract:** Pakistan has not been able to significantly increase exports or diversify its export base towards higher value-added products which has both contributed to its perpetual balance of payments problems and impeded growth. To address this, it is crucial to identify potential new exports that are not only relatively closer to the current export basket but also those products that have the potential to lead to higher value-added exports. This paper explores new categories of merchandise exports by incorporating the methodology developed by Hausmann and Klinger (2007), Hausmann et al. (2007), and Hidalgo et al. (2007). It operationalizes the concept of product space and identifies new products for Pakistan which are closer to prevailing production capabilities as well as new products that are of higher sophistication. Using the same methodology, this paper also analyzes the change in export basket of Pakistan from 2017 to 2021 and evaluates whether and to what extent the new categories recommended in 2017 have become part of 2021 export basket.

**Keywords:**

**JEL Classification:**

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# **A Roadmap to Diversifying Pakistan's Exports: Operationalizing the Product Space**

## **1. Introduction**

Over the past decade, there has been much written about the reoccurring balance of payments crisis in Pakistan. This discussion has covered a wide range of topics, from the cost of oil imports to boosting exports, from IMF stabilization packages to the China-Pakistan Economic Corridor (CPEC). Though a comprehensive discussion of how to address the balance of payments problem must take into account most of these issues, the focus of this paper is to identify potential export areas to address the chronically underperforming export sector.

The starting point for this paper is the fact that the Pakistani export sector is characterized by three important features: First, the Pakistani export sector has been heavily reliant on textile exports and in particular low value-added textile exports. As a first step, this makes sense since most developing countries start by exporting low value-added goods in which they have a comparative advantage. The problem in the Pakistani case is that while other countries move beyond a narrow range of low value-added exports, Pakistan has consistently failed to do so.

Second, while there is much optimism about the impact of the recent round of devaluation on exports, the reality is that economic theory is much more nuanced in terms of its predictions about how devaluations affect the balance of payments (and exports and imports in particular). More specifically, while devaluations increase exports at the macroeconomic level, the actual impact depends on the price elasticity of exports; if Pakistan exports low value-added textile products and they become cheaper, there is a good chance that exports won't increase as much as policy makers would like. This again points to the need for Pakistan to move beyond simple short-term macroeconomic policy prescriptions like devaluations and towards a comprehensive export strategy that focuses on producing and exporting higher value-added goods.

Finally, though policy makers keep discussing growth strategies, the fact is that over the last few decades there has been almost no serious work done on actually looking at the how to promote exports and economic growth through a comprehensive industrial strategy. One reason for this is that the international consensus has conveniently moved away from discussing industrial strategies even though all of the cross-country evidence shows that almost all of the countries that have developed industrially have followed very well-defined strategies. The other reason for this is that Pakistani policy makers have previously lacked the capacity to develop a real industrial strategy at the micro level.

This paper attempts to fill this gap in a small way. Using well-developed techniques to analyze the product space, we attempt to identify products that Pakistan could potentially export. The idea behind this is simple: While mapping a country's entire productive capabilities is virtually impossible, researchers have developed tools to measure how far new products are from a country's current production basket by using the following idea: Say, there are 5 countries that are producing and exporting the same bundle of goods as Pakistan and all 5 are also producing and exporting another good that Pakistan is not exporting. In that case, we would say that there is a relatively small 'distance' between this new good and the goods Pakistan exports since other countries with approximately the same capabilities as Pakistan are exporting this good. But suppose that a group of countries is exporting only a few of the goods that Pakistan exports while exporting other goods that Pakistan does not export. In this case, the distance of these new goods is relatively high since the countries producing these goods have different capabilities than Pakistan. This methodology allows us to determine goods that Pakistan could potentially produce and export based on the exports of other countries.

While the methodology above allows us to identify potential products that Pakistan could potentially export, there is a chance that we come up with a list of goods that other (similar) countries produce that are relatively low value-added. While at a macroeconomic level this may not be a problem (since exports of a different set of low value-added goods still leads to higher and more diversified exports), it doesn't address the problem discussed above of how to move Pakistan towards higher value-added exports. In order to address this issue, we also look at well-known measures of product sophistication.

The idea is that one can determine product sophistication by looking at the countries that produce a product. Countries with high incomes tend to produce more technologically sophisticated products while lower income countries tend to produce less technologically sophisticated products. So if one looks at the aggregate incomes of the countries that produce a good, one can rank that good in terms of product sophistication. We use this methodology to rank the products we find in our distance analysis in terms of product sophistication.

Finally, we put this all together and calculate the distance and product sophistication of potential exports. The policy implications of this are obvious: If Pakistan is interested in developing an export strategy that focuses on goods that it can potentially produce and goods which are higher value-added, then it should focus on those goods that have lower 'distance' and are also more sophisticated than the average sophistication level of the goods in the current Pakistani export basket.

One question that arises is that while the methodologies discussed above identify potential export products based on cross-country data (exports, incomes, etc.), could Pakistan actually produce the goods that we are proposing? If not, is the entire exercise purely academic? While we believe that the recommendations from our analysis above do provide important lessons, we extend our analysis by also calculating the distance and product sophistication of goods that Pakistan already exports, though in relatively small amounts (less than USD 1 million or less than USD 10 million). This gives us a recommended list of products that we know that Pakistan can produce (since it is already exporting them) and which are characterized by higher product sophistication.

We start by discussing some relevant literature followed by a discussion of our methodology. We then move towards presenting our results and simulations based on these results. Finally, we present some preliminary conclusions.

## **2. Literature Review**

To attain economic development, it is imperative to undergo structural transformation and accumulate productive capabilities that enable production and export of high value added and complex products. Therefore, in developing economies, the idea of export diversification has remained topical and a central point of discussion among the policy

makers. In this regard, the development path of a country as explained by Hausmann and Klinger (2007), Hidalgo et al. (2007) and Hidalgo and Hausmann (2009) is extremely relevant and important. They explain that firms within an economy need to continuously upgrade their skills and knowledge so that they can employ more sophisticated product-specific factors needed to produce and export a high value added good.

Hidalgo et al. (2007) further explained this by using the concept of product space which represents all the products exported in the world. Within the product space, a country is likely to develop a capability of producing a particular product that is related to its current set of productive capabilities. For example, if a country is an effective exporter of silk cloth, the human, physical and institutional capabilities required to produce a related high value added product such as silk shirts would be closer than those needed for producing printed circuits. Hence, the country would specialize in producing the former good initially and then over time, accumulate capabilities to move towards more complex products.

There are several studies in the existing economic literature that employ the concept of product space and structural transformation in order to explain the export diversification that has led or that can lead to economic development in various economies. Vitola and Davidsons (2008) identified potential exports that can replace existing export basket by making use of product space model for the economy of Latvia. Their empirical analysis concluded that the economy can potentially specialize in pharmaceutical products, medical, precision and optical instruments as well as chemicals and chemical products. Jankowska, Nagengast and Perea (2012) too employed the product space methodology proposed by Hidalgo et al. (2007) and stated that the newly industrialized countries (NICs) in Asia faced a gradual process of structural transformation by moving towards high value added industries such as iron, steel and electronics. Bojetic, Pejovic and Osorio-Roddarte (2013) also used product space methodology and identified the potential exports that can be introduced in the export basket of Montenegro. These included the goods in the sectors of tourism, wine, food, and energy.

Likewise, Fortunato et al. (2015) showed the potential export basket and the resultant sophistication gain in the exports of a less developing economy of Ethiopia. They claimed that exporting more in the iron and steel industries would lead to more sophisticated export structure in the economy. Bayudan-Dacuycuay and Lim (2017) employed the product

space methodology to analyze the difference in export sophistication and export-led growth of selected ASEAN and the developed Asian economies. They concluded that the former countries have limited product scope and need a more rigorous structural transformation for moving towards high value added exports in their current export baskets. Singh, Gupta, Sudan and Singh (2018) revealed in their analysis of product space model that in order to increase and diversify Indian export structure, the industrial policy must focus on the priority sectors which comprise of textiles and clothing, selected agriculture products including food processing, electronics, and chemicals. UNCTAD (2018) analyzed the structural transformation dynamics of five economies in Southern Africa namely Mauritius, Mozambique, South Africa, the United Republic of Tanzania and Zambia. The report explained that except for Mauritius and South Africa, the remaining economies have a dominant primary sector and a limited production sector. This needs to be altered by implementation of efficient export diversification strategies for which the report incorporated the product space literature proposed by Hausmann and Klinger (2007). Bezerra and Pinheiro (2019) identified strategies for efficient economic diversification using the concept of product space for Paraguay. They measured RCA and extent of similarity of 738 SITC categories in Paraguay's production structure and recommended that the policy makers can specialize in agricultural and chemicals sectors for a higher and more inclusive economic growth rate. Shah et al. (2021), thoroughly investigated the potential in export diversification and opportunities for LNG exporting Asian countries by using product space model to explore the connection between LNG and petrochemicals. The results reveal that production of unexploited petrochemical is imminent in Malaysia and Indonesia, whereas exploration potentials are low in UAE, Oman, and Myanmar.

Moreover, Gloria et al. (2020) adapted Hausmann-Hidalgo et al. product space approach to the case of Italian provinces, examining how closely a province's export performance is correlated with the network connectedness and centrality of those exports. They created a new Product Space Position (PSP) index that has many similar characteristics as Hausmann-Hidalgo et al. but is significantly more effective at managing provincial and regional data. It was discovered that the PSP index outperforms other indices. Their comparison highlights key ideas in the network-cognitive-distance-trade paradigm. Having a stronger presence in

the export-network product area is related to more favorable local economic outcomes.

### **3. Methodology**

#### **A. Calculating Product Distance**

Any developing country that plans to upgrade its exports at a certain point in time need to choose specific set of products that are not only feasible to produce but also lead to a more sophisticated and high value added export structure. To explore such production and export possibilities for a particular country, this paper adopts a measure of productive capabilities proposed by Hausman and Klinger (2007) that operationalizes the concept of product space.

Product space represents those products that have a certain extent of proximity amongst them. Any two products are highly related to each other if they need similar conventional factors of production such as land, labor, and capital or if they require similar technological level or institutions. According to Fortunato et al. (2015), within the product space, such products are more likely to be produced together. Likewise, dissimilar products that require better technology or different range of other factors of production are less likely to be produced together. For example, if low value added textiles such as trousers are produced and exported in a country, a more sophisticated and feasible export possibility would include formal suits or sportswear. These new products have higher proximity with the existing export basket and certainly require similar factors of production, human capital, technology and institutions. However, in the product space, products such as machinery, printed circuits or electrical components, that require a completely different set of productive capabilities, are highly dissimilar products with respect to the current export basket and hence, are less likely to be produced and exported.

Following Hausman and Klinger (2007), to generate this proximity-based measure, the methodology begins with identification of those products in an export basket for which revealed comparative advantage (RCA) is greater than one or those products for which a particular country is an effective exporter. RCA (Balassa, 1986) states that a country  $j$  is an effective exporter of a product  $k$  if the export share of that product in that country is higher than export share in the global market. RCA is calculated as:

$$RCA = \frac{X_{jk} / \sum_k X_{jk}}{\sum_j X_{jk} / \sum_j \sum_k X_{jk}}$$

whereby  $X_{jk}$  is the export value in country  $j$  of product  $k$ . If  $RCA > 1$ , it is said that country  $j$  is an effective exporter of product  $k$  and if  $RCA < 1$ , then country  $j$  is not an effective exporter of product  $k$ . Proximity between product  $k$  and another product of interest,  $h$ , can be defined as:

$$\varphi_{kh} = \min\{P(RCA_k > 1 | RCA_h > 1), P(RCA_h > 1 | RCA_k > 1)\},$$

where  $P(RCA_k > 1 | RCA_h > 1)$  is a conditional probability stating that a country exports product  $k$  with  $RCA > 1$  given that it also exports product  $h$  with  $RCA > 1$ . For example, if 20 countries export product  $k$  with  $RCA > 1$  and only 5 of them export product  $h$  with  $RCA > 1$ , then proximity or probability of exporting  $k$  in relation to  $h$  is minimum of  $\{20/5, 5/20\}$  or 0.25.

It is important to take minimum of the two conditional probabilities because the measure of  $\varphi_{kh}$  is not symmetric. Fortunato et al. (2015) explain that as the number of countries that export product  $k$  falls and gets as low as one, the probability that another country exports  $h$  given that it also exports  $k$  becomes a dummy variable, equal to 1 for every other good exported by that particular country and 0 otherwise. This shows individuality of the country and not the outcome of a proximity based measure. Therefore, minimum of the conditional probabilities has to be taken into account as that eliminates this problem since the value of proximity would be high only if higher number of countries exporting product  $k$  also export product  $h$ .

The basic aim of using this methodology is to estimate the probability of moving towards a new export product,  $h$ , from current export basket. For that, aggregate measure proposed by Hausman and Klinger (2007) known as *distance* is adopted in this paper. Fortunato et al. (2015) define distance as the conditional probability of exporting a particular product of interest,  $h$ , given the current export basket,  $b$ . A country is more likely to produce and export product  $h$  if the required capabilities are closer to the current export basket,  $b$  or the distance of  $h$  from  $b$  is low.

The capabilities a country possesses are reflected by the proximity between products that it exports,  $b$ , and a product of interest,  $h$  whereas the capabilities lacking are inferred from the proximity between products that a country does not export and product  $h$ . Hence, distance is the sum of proximities between all products that a country  $j$  is not exporting, normalized by the sum of proximities between all products and product  $h$ . Distance would be a low number if a country exports majority of the exports that are closely related to product  $h$  and would be high if a country exports only a small proportion of exports closely related to product  $h$ .

Distance is formally given by:

$$distance_{bh} = \frac{\sum_{k=1}^N (1 - M_{kh}) \varphi_{kh}}{\sum_{k=1}^N \varphi_{kh}}$$

whereby  $\{1, N\}$  is the product space,  $M_{kh} = 1$  if the country exports  $k$  with  $RCA > 1$  and 0 otherwise. Distance would be equal to zero if country  $j$  exports all the products in the product space. Similarly, if country  $j$  instead produces none of the products in the product space, distance of moving towards  $h$  from current export basket,  $b$ , would be maximum and equal to one.

In this paper,  $b$  is defined as the current export basket of Pakistan for the year of 2017. Product space represents all the product categories at the four digit level in the SITC revision 4 for the same year. Once the distance of the all the products of interest,  $h$ , has been estimated, the potential products are categorized into 10 distance groups whereby group 10 represents the one that is farthest from the current export basket,  $b$  and has high value of distance (closer to one).

## **B. Calculating Product Sophistication**

In choosing the products of interest,  $h$ , it is useful to have a measure that reflects the export sophistication of the goods in the product space so that such products may be targeted in the new export basket. For this, the export sophistication index proposed by Hausmann et al. (2007) has been followed. It infers that a country with higher Gross Domestic Product (GDP) would have a more sophisticated export basket as compared to the country with lower GDP. That may be due to higher technological content in the exports or availability of natural resources or higher use of human capital in the exports of the richer countries which make them more

sophisticated assuming, of course, the absence of trade interventions. This product-level measure of sophistication of exported goods is known as PRODY and is calculated as the RCA-weighted GNI per capita of country  $j$  exporting product  $k$ .

$$PRODY_k = \sum_j \frac{X_{kj}/X_j}{\sum_j (X_{kj}/X_j)} Y_j$$

whereby  $X_{kj}$  is the value of exports of country  $j$  for product  $k$ ,  $X_j$  is the aggregate value of exports of country  $j$  and  $Y_j$  is the GNI per capita of country  $j$ . If  $X$  constitutes for a higher proportion of poor countries' exports as compared to rich countries' exports, then PRODY would have a low value. Similarly, if  $X$  constitutes for a higher proportion of rich countries' exports as compared to poor countries' exports, then PRODY would have a high value. In other words, a rich country export would lead to higher PRODY value whereas a poor country export would lead to low value of PRODY.

Following Fortunato et al. (2015), this paper also estimates the average sophistication of the current export basket,  $b$  of country  $j$  at time  $t$ . This helps in distinguishing among those potential products, or that proportion of  $h$  in country  $j$ , for which PRODY is higher than the average sophistication. Formally, it is stated as:

$$Average\ Sophistication_{jt}^b = \frac{\sum_k (PRODY_{kt} * ExpValue_{kjt})}{\sum_k (ExpValue_{kjt})}$$

whereby  $ExpValue_{kjt}$  is the export value at time  $t$  of product  $k$  in export basket  $b$  for country  $j$ . The products that are not yet exported from the product space would be eliminated and the measure would reflect average sophistication of the current export basket for a particular country.

Following Fortunato et al. (2015) we also take the product-level measure of  $PRODY_{kt}$  and measure the country level export sophistication,  $EXPY$  of country  $j$  during year  $t$ . It is the export weighted sum of product-level sophistication of each exported good  $k$  and defined as follows:

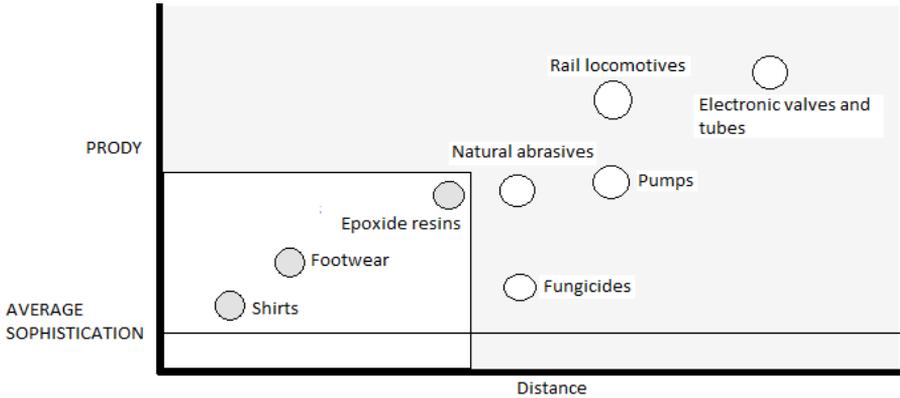
$$EXPY_{jt} = \sum_k \frac{X_{kjt}}{X_{jt}} PRODY_k$$

We expect a higher EXPY for “high-income” countries and a low EXPY for “low-income” countries. This is because PRODY is measured using GNI per capita of a particular country and if a country is richer with higher production capabilities, then their export shares are multiplied by corresponding higher PRODY values which gives a higher EXPY as a result. However, having said that and as pointed out by Fortunato et al. (2015), there is a lot of variation in this relationship. There could be low-income countries who manage to export a relatively more sophisticated export baskets or a high-income country with low export shares per category of all exports being multiplied by higher PRODY that diminishes the value of EXPY. Hence, a positive correlation, though anticipated theoretically, may not occur in reality. Lall et al. (2006) further suggested that there could be high technology products with low sophistication and low technology products with high sophistication. So a country with low production capability or lower technological intensity may have high EXPY and vice-versa.

### ***C. Identifying Products as Potential Exports***

This paper takes into account 140 countries and product space represents 4-digit HS codes with 1223 product categories. Since the main country of concern is Pakistan, the distance groups are calculated for this country only. Three categories have been taken into account. Firstly, all not yet exported items in the product space are categorized into 10 distance groups where 10<sup>th</sup> group reflects the products that are farthest from the current export basket. Secondly, all the products with less than USD 1 Million export value are categorized into 10 distance groups where 10<sup>th</sup> group reflects the products that are farthest from the current export basket. Thirdly, all the products in the product space with less than USD 10 Million export value are categorized into 10 distance groups where 10<sup>th</sup> group reflects the products that are farthest from the current export basket. Then, of these products, the potential products that can be added in the export basket or the potential products whose exports can be further increased in the current export basket are identified. These products are those that have PRODY higher than average sophistication of the existing export basket, i.e. they are relatively high value added, and that are also feasible, i.e. they are in closer distance groups.

A graphical representation of the product selection process is shown in figure 1.

**Figure 1: An Example of the Product Space**

The grey and white spaces represent product space whereas the white space shows current export basket of a hypothetical country. The potential products,  $h$ , for this country that can increase export value would be the ones that are already being exported and have PRODY higher than average sophistication such as epoxide resins. The additional product in the current export basket in the short term could be natural abrasives as that has higher PRODY and similar distance as that of fungicides. Hence, it is both feasible and more sophisticated to choose natural abrasive rather than fungicides. Within products with higher distance groups, according to this country's productive capacity, pumps would be preferred over rail locomotives as the latter may not be feasible due to requirements of higher productive capabilities. However, rail locomotives could be a product that can be added in the export basket in the future once the average sophistication and PRODY levels improve over time.

Before we discuss out results, it is important to realize that while there has been much discussion of why countries should move up the ladder in terms of export sophistication, much of this has focused on the balance of payments implications of exporting more sophisticated goods which tend to also be higher value-added goods. But while this is true, there is also a fundamental relationship between making (and exporting) more sophisticated goods and the level of development in an economy: As a country develops in terms of its human and physical capital (as well as myriad of other factors that affect growth like institutions, technology, etc.), there is a natural tendency for that country to start producing more sophisticated goods, which in turn feeds back into greater development. So, the relationship between develop and product sophistication is far

more nuanced than a one-sided argument that if a country starts producing and exporting more sophisticated goods then it tends to experience higher growth.

In the next section, we present our results.

## **4. Results**

As discussed above, the analysis was performed for three particular categories: (i) First, we analyzed the categories of potential exports based on the list of all goods that are not currently exported by Pakistan. (ii) Second, we analyzed the categories of potential exports based on the list of goods not exported by Pakistan as well as those goods whose exports are less than USD 1 million. (iii) Finally, we analyzed the categories of potential exports based on the list of goods not exported by Pakistan as well as those goods whose exports are less than USD 10 million.

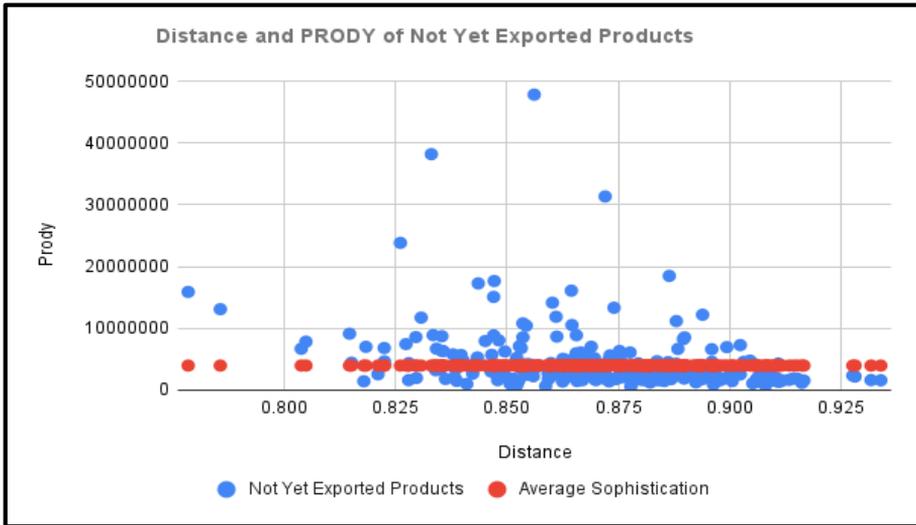
The reason for looking at these difference categories was to find new product categories for potential Pakistani exports as well as to identify existing product categories in which Pakistan can potentially increase exports, both concentrating on products with higher than average sophistication level.

### ***A. Results for New Pakistani Export Categories***

In our first analysis, we calculated the distance and sophistication of goods that could be potentially exported by Pakistan based on the exports of countries with similar export profiles.

In this case, we calculated the distance and sophistication of goods which are not being exported by Pakistan but are being exported by countries who have export baskets similar to Pakistan. Figure 2 below illustrates the results:

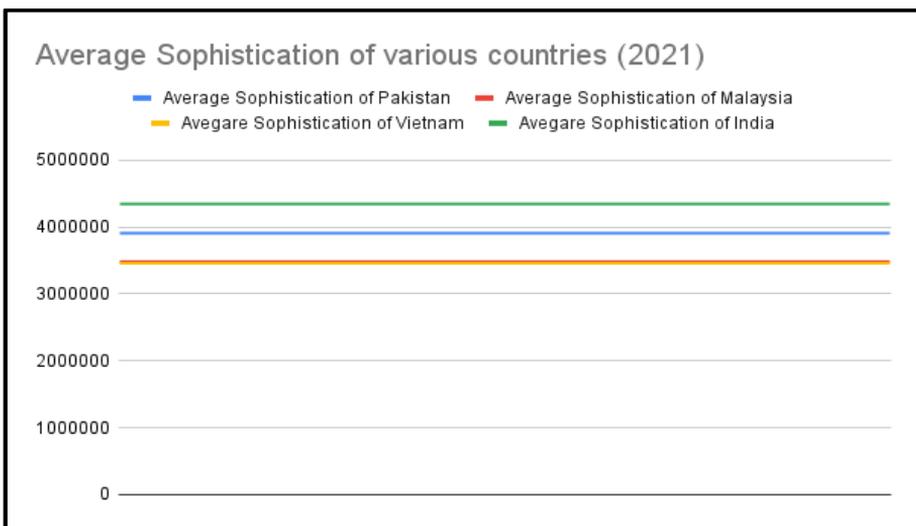
**Figure 2: Potential New Export Categories**



Source: Authors' Calculations

In the figure the red line represents the average sophistication level of Pakistan's exports in 2021. For comparison purposes, we have also plotted in Figure 3 the average sophistication of other Asian countries including Malaysia, India and Viet Nam.

**Figure 3: Average Sophistication Level of Exports**



In figure 2, products above red line represent those goods whose sophistication level lies above the average sophistication of Pakistan's 2021 export basket. In terms of policy recommendations, if one was to recommend new products for Pakistan to potentially export based on this analyses, one should choose products above the red line (though not so far above that the new product could not be realistically produced and exported by the country).

Figure 2 also illustrates the distance of each product category from Pakistan's 2021 export basket of goods. Products that are closer to the origin are goods that are potentially 'easier' for Pakistan to produce and export (in terms of production capabilities) while goods that are further away from the origin are goods that are 'more difficult' for Pakistan to produce and export (in terms of production capabilities). Turning again to potential policy recommendations, one should potentially focus on new products which lie closer to the origin since these goods have a greater chance of falling within Pakistan's current production and export capabilities.

Table 1 in the Appendix details the list of goods sorted first in terms of their distance and then by their level of sophistication. The argument here is that one should be able to identify potential export goods by first matching them with Pakistan's current capabilities (lower versus higher distance) and then sorting them in terms of sophistication (to potentially lead to higher value added exports).<sup>1</sup>

## ***B. Results including Goods with Pakistani exports of USD 1 million or less***

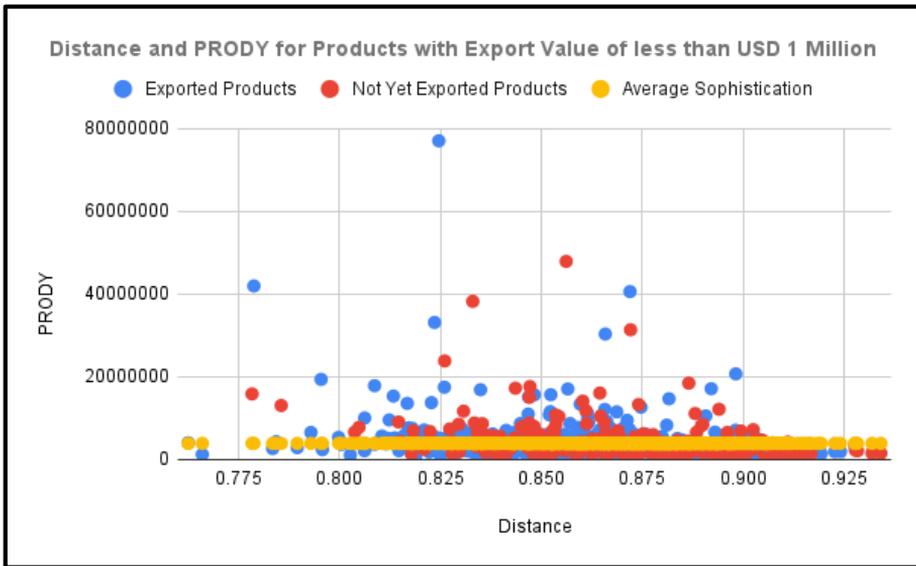
We extend the first analysis by including not only products that lie outside Pakistan's 2021 export basket but also including products that generate low export revenues or that are characterized by low levels in the 2021 export basket. The rationale for this extension is that there may exist products which are high in sophistication and relatively low in distance (so they are similar to what Pakistan can and is exporting) which are not exported in significant quantities. Since the country already produces and exports these goods, there could be significant gains achieved by expanding the exports of these more sophisticated products.

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<sup>1</sup> We have also included the Leamer names and Lall product sophistication classifications for all of the products.

In this case, we calculated the distance and sophistication of goods which are not being exported by Pakistan but are being exported by countries who have export baskets similar to Pakistan as well as those goods that are exported but have exports less than USD 1 million in Pakistan's 2021 export basket. Figure 4 below illustrates the results:

**Figure 4: Product Space for New Products and Low Export Value Goods**



Source: Authors' Calculations

The orange line shows the average sophistication level of Pakistan's 2021 export basket; the products illustrated in blue are those products which Pakistan exported in quantities less than USD 1 million in 2021, while the products illustrated by red are those products which Pakistan did not export in that year.

The first thing to note is that there are a significant number of 'blue' products (or products that Pakistan exported in 2021) which are of lower distance. This makes sense as these goods are already produced and exported by Pakistan and lie closer to the current production capabilities of the country. But we argue that not all of these products are equal: There are goods that lie closer to the current capabilities of the county which lie above the average sophistication level of Pakistan's 2021 export basket and then there are goods that lie closer to the current production

capabilities which lie below the average sophistication level of Pakistan's 2021 export basket. In terms of potential, it would make sense to focus on the expansion of those exports that lie closer to the origin in terms of distance and also lie above the average sophistication level of Pakistan's overall export basket (above the orange line).

Next, in terms of new exports, the same argument holds as in the previous section: it would make sense to focus on those new potential exports that lie above the orange line and which lie closer to the origin in terms of distance.

Table 2 in the Appendix sorts products which are exported by Pakistan in 2021 (in quantities less than USD 1 million) first in terms of distance and then in terms of product sophistication.<sup>2</sup>

### ***C. Results including Goods with Pakistani exports of USD 10 million or less***

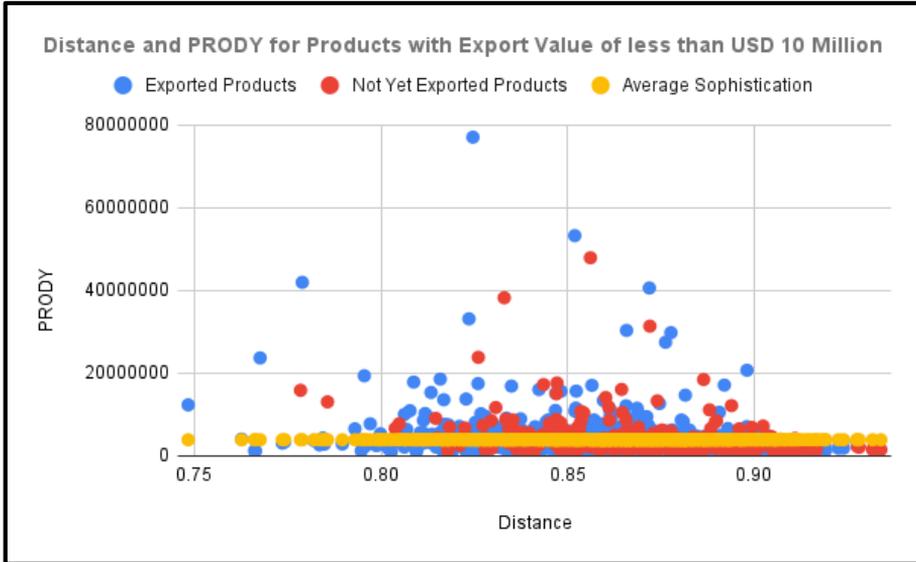
Finally, we extend our analysis to include not only potential exports but also products that are exported by Pakistan in 2021 but whose exports are less than USD 10 million. The argument is the same as above: Any policy that focuses on expanding Pakistan's exports should not only focus on new exports but also more sophisticated goods that are exported by Pakistan in relatively small quantities.

In this case, we calculated the distance and sophistication of goods which are not being exported by Pakistan but are being exported by countries who have export baskets similar to Pakistan as well as those goods that are exported but have exports less than USD 10 million in 2021. Figure 5 below illustrates the results:

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<sup>2</sup> Again, we have also included the Leamer product names and Lall product classifications for all of the goods.

**Figure 5: Expanded Product Space for New Products and Low Export Value Goods**



Source: Authors' Calculations

Here again, the orange line shows the average sophistication of Pakistan's 2021 export basket while the products in blue are those products that are being exported by Pakistan but have exports of less than USD 10 million. The products in red are products that Pakistan did not export in 2021.

Again, the priority for policy makers would be to focus on those 'blue' products which are above the orange line and lie closer to the origin in terms of distance. The second priority would be the 'red' products that lie above the orange line and relatively closer to the origin in terms of distance.

#### ***D. Comparison of Categories by Product Sophistication (PRODY) of Pakistani Goods Exported in 2017 and 2021***

In 2019, we implemented a similar operationalization of product space analysis for Pakistan using the export data of 2017 and recommended (i) Category 1: new product categories that could potentially be exported by Pakistan, (ii) Category 2: products from the then export basket with total export values of less than USD 1 million that were higher than the average product sophistication (PRODY) and had relatively lower distance and (iii)

Category 3: products from the then export basket with export values of less than USD 10 million that were higher than the average product sophistication (PRODY) and had relatively lower distance.

Below, we compare the export baskets of 2017 and 2021 to analyze whether the Pakistan exporters started exporting goods in the categories (1-3) that we previously identified and if they did, what was the increase in total export values under all three categories. The table below illustrates the results for each of the three categories. It can be seen that export basket of 2021 incorporated many recommended products.

Category 1 shows that Pakistan's export revenue from adding new products that were above average PRODY increased from USD 0 in 2017 to USD 103 million in 2021.

In category 2, the export revenues of goods with smaller export values (of less than USD 1 million) increased from USD 96 million in 2017 to USD 427 million in 2021; of these approximately USD 25 million of the USD 96 million in 2017 were more sophisticated products while USD 194 million of the USD 427 million in 2021 were more sophisticated products. So looking at those export categories where Pakistan was exporting smaller quantities (less than USD 1 million), Pakistan increased its exports of more sophisticated goods to more than USD 194 million. If one adds to this the export of new higher sophistication products (adding the exports of higher sophistication products from categories 1 and 2) then we see that Pakistan's exported about USD 298 million worth of more sophisticated products in 2021 in those smaller categories (where it was exporting less than USD 1 million) where it was only exporting USD 25 million in 2017.

Similarly, in category 3, the export revenues of goods with small to medium export values (of less than USD 10 million) increased from USD 818 million in 2017 to USD 1,932 million in 2021; of these approximately USD 233 million of the USD 818 million in 2017 were more sophisticated products while USD 803 million of the USD 1,932 million in 2021 were more sophisticated products. So looking at those export categories where Pakistan was exporting small to medium sized quantities (less than USD 10 million), Pakistan increased its exports of more sophisticated goods to more than USD 803 million. If one adds to this the export of new higher sophistication products (adding the exports of higher sophistication products from categories 1 and 3) then we see

that Pakistan's exported more than USD 906 million worth of more sophisticated products in 2021 in those small medium categories (where it was exporting less than USD 10 million) where it was only exporting USD 233 million in 2017.

These results imply that Pakistan has the capacity to produce and export higher sophistication goods, but policy makers (especially those making trade agreements) must keep this in mind as they determine export, industrial and trade policies.

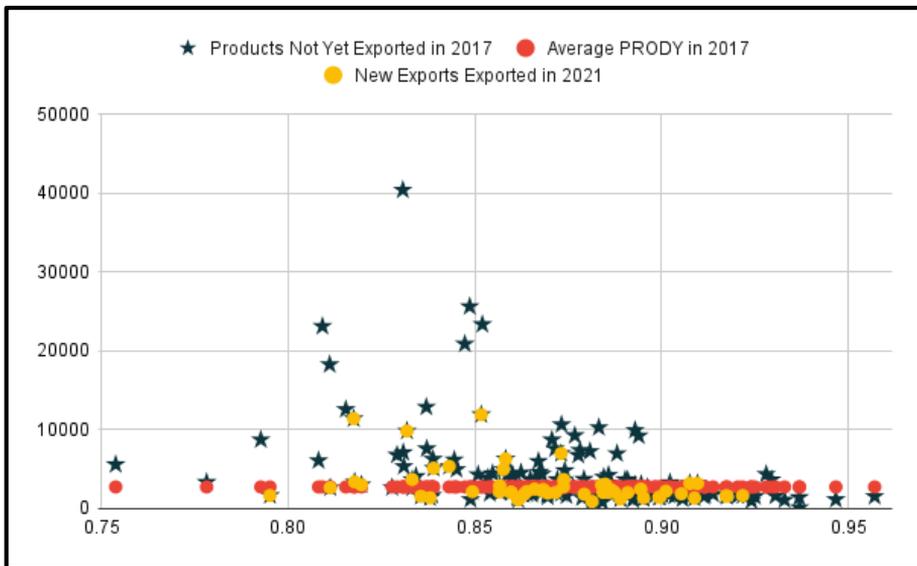
**Table 1: Export Revenue Comparison by Product Sophistication (PRODY) between 2017 and 2021**

	Export Value (US\$1000)					
	Category 1 (actuals): New Products		Category 2 (actuals): All Products exported at value < USD 1M		Category 3 (actuals): All Products exported at value < USD 10 M	
	All Products	Products above Average PRODY	All Products	Products above Average PRODY	All Products	Products above Average PRODY
Export Revenue in 2017	\$0.00	\$0.00	\$96,508.15	\$25,444.28	\$818,709.53	\$233,733.12
Export Revenue in 2021	\$109,931.70	\$103,291.40	\$427,130.12	\$194,967.92	\$1,932,795.14	\$803,055.46
Adding Category 1 products in 2021 Export Basket	\$109,931.70	\$103,291.40	\$537,061.82	\$298,259.32	\$2,042,726.84	\$906,346.86

The graphs below further show the change in exports of Pakistan under each category in more detail. Figure 6 shows the number of the new products recommended in 2017 that were exported in 2021. These mainly included exports of the following product categories: **live animals** whereby the exports increased from USD 0 to more than USD 2.8 Million; **food and cereals** such as cocoa whereby increase in exports were recorded at USD 30.1 thousands, palm oil and its fractions, maize oil and its fractions which recorded increase of USD 0.42 Million; **precious metal**

**ores** such as particularly lead and lead alloys, unwrought, which reported increase in exports of USD 22.7 Million; **chemicals** such as epoxide resins, fungicides, disinfectants, particularly styrene polymers that recorded increase of USD 1.075 Million; **manufactured and machinery items** such as bars and rods, tubes and pipe fittings, electronic valves, vehicles specially designed for traveling in snow, and baby carriages; **other items** such as gold whose exports increased by USD 0.38 Million.

**Figure 6: Expanded Product Space for New Products**

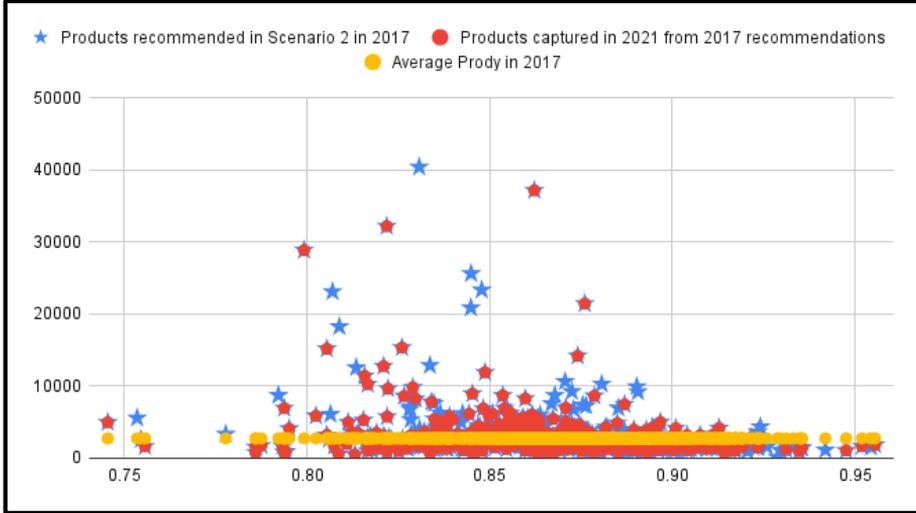


Likewise, figures 7 and 8 show the expanded product space for new products and low value exports (of USD less than 1 Million and 10 Million respectively) in 2017 that Pakistan's 2021 export basket could successfully capture.

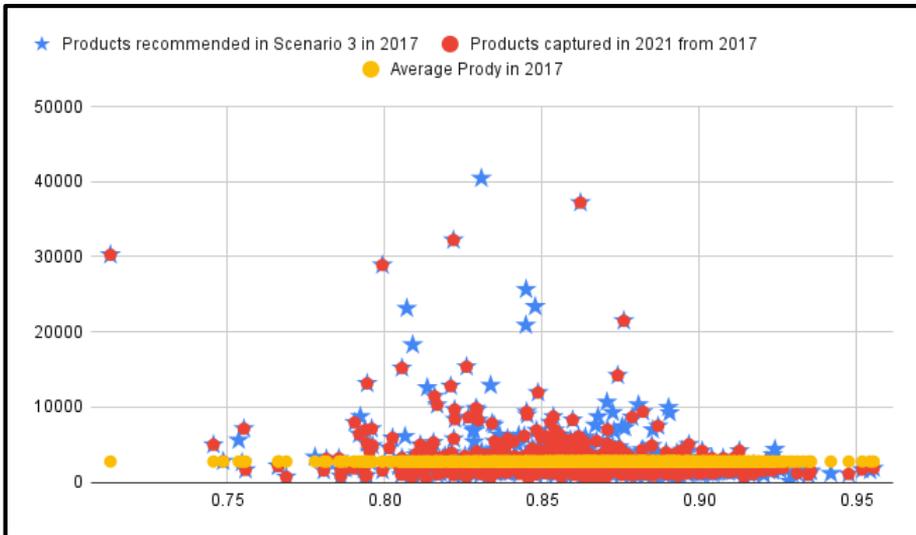
Apart from the new products in category 1, the products whose export revenues increased in categories 2 and 3 were mostly in the following sectors/sub-sectors: **food** such as meat and edible meat (exports increased from USD 50 thousand to USD 2.6 Million), sausages, fish, Molluscs and aquatic invertebrates (exports increased from USD 0.15 Million to USD 85.12 Million), birds' eggs, in shell, fresh, preserved/cooked which recorded increase in exports from USD 8 Million to USD 14 Million, macaroni, spaghetti & similar products (pasta) where exports increased from USD 9.9 Million to USD 20.2 Million, cereals, fruits (fresh and

processed) such as tomatoes which reported increase from USD 0.7 Million to USD 9.03 Million, soya beans, seeds, maize oil, fat and oil and its fractions; **tobacco** (exports increased from USD 0.4 Million to USD 11.5 Million); **textiles** such as synthetic fibers (reporting increase from USD 0.78 Million to USD 9.4 Million), leather where exports increased from USD 0.027 Million to USD 17 Million, wool, carpets, knitted garments, yarn which reported increase in exports from USD 0.98 Million to USD 18.1 Million, woven fabrics where exports increased from USD 0.6 Million to USD 10 Million; **metals & ores** such as copper ore whose exports increased from USD 0.3 Million to USD 11.5 Million, copper bars whose exports increased from USD 1.2 Million to USD 28.8 Million, iron ore agglomerates where exports increased from USD 0.021 Million to USD 15.5 Million, flat-rolled products of iron or non-alloy steel where exports increased from USD 0.6 Million to USD 13.3 Million), aluminum, copper ores; **chemicals** such as other acyclic alcohols which reported increase in exports from USD 0.00017 Million to USD 6.6 Million, polyvinyl chloride whereby exports increased from USD 0.78 Million to USD 27 Million, catalysts and catalytic preparations, n.e.s. where exports increased from USD 0.6 Million to USD 11.7 Million, hydrocarbons, polycarboxylic acids, carbonates, paints, soaps, polycarbonates; **manufactured and machinery items** such as manufactures of woods (particularly densified wood and particle board which reported increase from USD 0.074 Million to USD 2.2 Million), paper, tyres, manufactures of mineral materials, glass such as float glass and surface ground or polished glass where exports increased from USD 5.8 Million to USD 15.2 Million, household articles, sewing machines, machine tools, other electric power machinery where exports increased from USD 0.38 Million to USD 1.4 Million, gas generators, wheeled tractors such as road tractors for semi-trailers where exports increased from USD 1.7 Million to USD 6 Million, aeroplanes & other aircraft mechanically-propelled (other than helicopters) of an unladen weight exceeding 15,000 kg where exports increased from USD 1.1 Million to USD 39.7 Million), surgical goods, basketware, wickerwork and other articles of plaiting materials, n.e.s where exports increased from USD 0.9 Million to USD 3.9 Million, compasses, measuring, controlling and scientific instruments, n.e.s. which recorded increase in exports from USD 0.4 Million to USD 1.105 Million) sports goods, and other items such as **gold**.

**Figure 7: Expanded Product Space for New Products and Existing Products with Export Values less than USD 1 Million**



**Figure 8: Expanded Product Space for New Products and Existing Products with Export Values less than USD 10 Million**



## 5. Simulations

In the previous sections, we have discussed how to identify goods which both match the productive capabilities of the country as well as having higher than average sophistication levels. The aim was to present a template which can be used by policy makers to identify new export categories and also show policy makers which of the currently exported goods have the greatest potential for growth.

An important question that arises is about the real world impact of the analysis above. In particular, what is the potential impact of the expansion in exports discussed above? What would happen to overall exports if Pakistan starting to export a subset of the new goods identified based on the 'distance' measure discussed above (or in other words, it started exporting those goods which are closest to its current productive capabilities)? Also, what would happen to exports if Pakistan focused on expanding those exports which currently make up only a small part of the current export basket and are also close in terms of 'distance'?

The table below shows some of these projects. Simulation 1 projects what would happen to merchandise exports if Pakistan started exporting those new products that lie closest to its current export basket (or started exporting those goods that lie in distance categories 1-6). Here, we have taken the potential value of exports for each new product equal to the average value of exports for each product Pakistan currently exports. Here we see that expanding into these new categories could increase Pakistan's merchandise exports by more than 13.8% (from USD 28.7 billion to USD 32.8 billion).

Simulation 2 projects what would happen to merchandise exports if Pakistan started exporting those new products that lie closest to its current export basket (or started exporting those goods that lie in distance categories 1-6) as well as doubling the export of those products that lie closest to its current export basket and whose export values are less than USD 1 million (or in other words, it doubled the exports of those goods that lie in distance groups 1-6 and are less than USD 1 million in value). Again, we have taken the potential value of exports for each new product equal to the average value of exports for each product Pakistan currently exports. Here we see that expanding into these new categories as well as increasing the export of goods which the country has the capability of

making could increase Pakistan's merchandise exports by more almost 14.2% (from USD 28.7 billion to USD 32.9 billion).

Finally, Simulation 3 does the same as Simulation 2 but doubles the exports of all those goods with export values of less than USD 10 million. In this case, the Pakistan's merchandise exports would increase by approximately 17.3% (from USD 28.7 billion to USD 33.8 billion).

Though these simulations are simple approximations, they show the impact of expanding the country's export base towards more sophisticated products.

**Table 2: Potential Growth in Pakistan's Merchandise Exports based on Simulations**

Pakistan's Merchandise Exports in 2021 (USD Billion)	28.795
<b>Simulation 1:</b> Potential Merchandise Exports after Adding Not Yet Exported Products in Distance groups 1 – 6 (\$ Billion)	32.770
<b>Simulation 2:</b> Potential Merchandise Exports after Adding Not Yet Exported Products and Doubling all Products with Export Value of Less than USD 1 M in Distance groups 1 to 6 (\$ Billion)	32.885
<b>Simulation 3:</b> Potential Merchandise Exports after Adding Not Yet Exported Products in Distance groups 1 to 6 and Doubling all Products with Export Value of Less than USD 10 M in Distance groups 1 to 6 (\$ Billion)	33.7886

Source: Authors' Calculations

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## Appendix 1: List of Potential Exports with Distance and Sophistication Measures

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Copra	1203	Primary Products	Cereals,etc.	ABOVE	13067540.05	0.7856944251	1
Silk- worm cocoons suitable for reeling.	5001	Primary Products	Cereals,etc.	ABOVE	15871570.62	0.7784797822	1
Titanium ores and concentrates	2614	Resource-based manufactures: other	Raw Materials	ABOVE	6640346.296	0.8038534708	2
Coconut, abaca (Manila hemp or <i>Musa textilis</i> Nee), ramie and other vegetable textile fibres, not elsewhere specified or included, raw or processed but not spun; tow, noils and waste of these fibres (including yarn waste and garnetted stock).	5305	Resource-based manufactures: agro-based	Cereals,etc.	ABOVE	7788589.985	0.8049127781	2
Grain sorghum.	1007	Primary products	Cereals,etc.	BELOW	2495271.345	0.821080942	3
Niobium, tantalum, vanadium or zirconium ores and concentrates.	2615	Resource-based manufactures: other	Raw Materials	ABOVE	6955325.295	0.8183775238	3
Artificial corundum, whether or not chemically defined; aluminium oxide; aluminium hydroxide.	2818	Resource-based manufactures: other	Chemical	ABOVE	6763284.654	0.822482333	3
Mineral or chemical fertilisers, phosphatic.	3103	Medium technology manufactures: process	Chemical	ABOVE	9086160.455	0.8146953684	3
Wood charcoal (including shell or nut charcoal), whether or not agglomerated.	4402	Primary products	Forest Products	ABOVE	4370959.279	0.8151405524	3
Silk waste (including cocoons unsuitable for reeling, yarn waste and garnetted stock).	5003	Primary products	Cereals,etc.	ABOVE	4583325.423	0.8225191382	3
Woven fabrics of other vegetable textile fibres; woven fabrics of paper yarn.	5311	Resource-based manufactures: agro-based	Cereals, etc.	BELOW	1361483.362	0.8179041225	3
Vanilla.	905	Primary products	Cereals, etc	ABOVE	23838042.41	0.8261074342	4
Sunflower- seed, safflower or cottonseed oil and fractions thereof, whether or not refined, but not chemically modified.	1512	Primary Products	Cereals, etc.	ABOVE	5733709.174	0.8379171302	4
Cocoa beans, whole or broken, raw or roasted.	1801	Primary Products	Tropical Agriculture	ABOVE	38235683.42	0.8330511088	4
Wine of fresh grapes, including fortified wines; grape most other than that of heading 20.09.	2204	Resource-based manufactures: agro-based	Tropical Agriculture	ABOVE	6253623.263	0.8357103749	4
Oil- cake and other solid residues, whether or not ground or in the form of pellets, resulting from the extraction of ground- nut oil.	2305	Resource-based manufactures: agro-based	Tropical Agriculture	ABOVE	4300068.339	0.8280056416	4
Natural borates and concentrates thereof (whether or not calcined), but not including borates separated from natural brine; natural boric acid containing not more than 85 % of H <sub>3</sub> BO <sub>3</sub> calculated on the dry weight.	2528	Primary products	Raw Materials	ABOVE	6311835.28	0.8354038129	4

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Coal; briquettes, ovoids and similar solid fuels manufactured from coal.	2701	Resource-based manufactures: other	Raw Materials	BELOW	3240127.665	0.8349859673	4
Diphosphorus pentoxide; phosphoric acid; polyphosphoric acids, whether or not chemically defined.	2809	Resource-based manufactures: other	Chemical	ABOVE	8535567.153	0.829571044	4
Chlorates and perchlorates; bromates and perbromates; iodates and periodates.	2829	Resource-based manufactures: other	Chemical	ABOVE	5635076.257	0.8397261933	4
Mineral or chemical fertilisers containing two or three of the fertilising elements nitrogen, phosphorus and potassium; other fertilisers; goods of this Chapter in tablets or similar forms or in packages of a gross weight not exceeding 10 kg.	3105	Medium technology manufactures: process	Chemical	ABOVE	4095830.498	0.8390718456	4
Tanning extracts of vegetable origin; tannins and their salts, ethers, esters and other derivatives.	3201	Medium technology manufactures: process	Chemical	BELOW	3471523.663	0.8341485596	4
Prepared explosives, other than propellant powders	3602	Medium technology manufactures: process	Chemical	ABOVE	4737633.142	0.8401937928	4
Vulcanised rubber thread and cord.	4007	Resource-based manufactures: agro-based	Capital Intensive	BELOW	1538072.423	0.8279671175	4
Raw skins of sheep or lambs (fresh, or salted, dried, limed, pickled or otherwise preserved, but not tanned, parchment- dressed or further prepared), whether or not with wool on or split, other than those excluded by Note 1 (c) to this Chapter.	4102	Primary Products	Animal Products	ABOVE	6649977.604	0.8342135836	4
Articles of natural cork.	4503	Resource-based manufactures: agro-based	Forest Products	ABOVE	8684290.434	0.8354125301	4
Raw silk (not thrown).	5002	Primary Products	Cereals, etc.	BELOW	1733018.484	0.8362414797	4
Silk yarn (other than yarn spun from silk waste) not put up for retail sale.	5004	Primary Products	Cereals, etc.	BELOW	3323109.613	0.8384796202	4
Yarn of other vegetable textile fibres; paper yarn.	5308	Resource-based manufactures: agro-based	Cereals, etc.	BELOW	1897377.296	0.8296968281	4
Hat- forms, hat bodies and hoods of felt, neither blocked to shape nor with made brims; plateaux and manchons (including slit manchons), of felt	6501	Low technology manufactures: textile, garment and footwear	Capital Intensive	ABOVE	7402724.547	0.827362683	4
Setts, curbstones and flagstones, of natural stone (except slate)	6801	Resource-based manufactures: other	Labor Intensive	BELOW	3153077.05	0.8340245775	4
Worked slate and articles of slate or of agglomerated slate	6803	Resource-based manufactures: other	Labor Intensive	BELOW	1974507.676	0.8382805516	4
Statuettes and other ornamental ceramic articles	6913	Low technology manufactures: other products	Labor Intensive	BELOW	1427853.395	0.8387294684	4
Copper mattes; cement copper (precipitated copper).	7401	Resource-based manufactures: other	Raw Materials	ABOVE	8852248.743	0.8334647196	4
Fishing vessels; factory ships and other vessels for	8902	Medium technology manufactures: engineering	Machinery	ABOVE	11695925.27	0.8307750668	4

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
processing or preserving fishery products							
Live bovine animals.	102	Primary products	Animal Products	ABOVE	8506208.84	0.8536097449	5
Meat of horses, asses, mules or hinnies, fresh, chilled or frozen.	205	Primary products	Animal Products	ABOVE	10766859.17	0.853607861	5
Birds' eggs, not in shell, and egg yolks, fresh, dried, cooked by steaming or by boiling in water, moulded, frozen or otherwise preserved, whether or not containing added sugar or other sweetening matter	408	Primary Products	Animal Products	ABOVE	4126392.399	0.8542162554	5
Fats of bovine animals, sheep or goats, other than those of heading 15.03.	1502	Resource-based manufactures: agro-based	Animal Products	ABOVE	7054125.942	0.8528356551	5
Glycerol, crude; glycerol waters and glycerol lyes.	1520	Resource-based manufactures: other	Cereals, etc.	BELOW	2433327.112	0.8493416019	5
Beer made from malt.	2203	Resource-based manufactures: agro-based	Tropical Agriculture	ABOVE	6734472.23	0.8532227073	5
Vermouth and other wine of fresh grapes flavoured with plants or aromatic substances	2205	Resource-based manufactures: agro-based	Tropical Agriculture	ABOVE	10394205.38	0.8543500087	5
Undenatured ethyl alcohol of an alcoholic strength by volume of less than 80 % vol; spirits, liqueurs and other spirituous beverages.	2208	Resource-based manufactures: agro-based	Tropical Agriculture	ABOVE	15058043.04	0.8470340486	5
Wine lees; argol.	2307	Resource-based manufactures: agro-based	Tropical Agriculture	BELOW	2394189.498	0.854212884	5
Sulphur of all kinds, other than sublimed sulphur, precipitated sulphur and colloidal sulphur.	2503	Primary products	Raw Materials	ABOVE	7896475.833	0.8451596257	5
Tin ores and concentrates.	2609	Resource-based manufactures: other	Raw Materials	ABOVE	8811415.631	0.8470455171	5
Tungsten ores and concentrates.	2611	Resource-based manufactures: other	Raw Materials	ABOVE	17642687.79	0.8471727124	5
Uranium or thorium ores and concentrates.	2612	Resource-based manufactures: other	Raw Materials	ABOVE	47903544.98	0.8561424523	5
Granulated slag (slag sand) from the manufacture of iron or steel.	2618	Resource-based manufactures: other	Raw Materials	ABOVE	4134450.072	0.8550070971	5
Fluorine, chlorine, bromine and iodine.	2801	Resource-based manufactures: other	Chemical	ABOVE	6200604.181	0.849558488	5
Sulphur, sublimed or precipitated; colloidal sulphur.	2802	Resource-based manufactures: other	Chemical	BELOW	2395768.221	0.8489552817	5
Lead oxides; red lead and orange lead.	2824	Resource-based manufactures: other	Chemical	BELOW	2171651.837	0.8559377537	5
Dithionites and sulphoxylates	2831	Resource-based manufactures: other	Chemical	BELOW	920797.851	0.8410098135	5
Glycosides, natural or reproduced by synthesis, and their salts, ethers, esters and other derivatives.	2938	Resource-based manufactures: other	Chemical	BELOW	1419811.38	0.852634629	5
Other organic compounds.	2942	Resource-based manufactures: other	Chemical	BELOW	1535473.219	0.847944185	5
Mineral or chemical fertilisers, nitrogenous.	3102	Medium technology manufactures: process	Chemical	ABOVE	8007243.52	0.8481858745	5

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Mineral or chemical fertilisers, potassic.	3104	Medium technology manufactures: process	Chemical	BELOW	3460165.299	0.8541230537	5
Safety fuses; detonating fuses; percussion or detonating caps; igniters; electric detonators	3603	Medium technology manufactures: process	Chemical	BELOW	3400024.522	0.853484529	5
Other raw hides and skins (fresh, or salted, dried, limed, pickled or otherwise preserved, but not tanned, parchment- dressed or further prepared), whether or not dehaired or split, other than those excluded by Note 1 (b) or 1 (c) to this Chapter.	4103	Primary Products	Animal Products	ABOVE	5238490.012	0.843390714	5
Natural cork, debacked or roughly squared, or in rectangular (including square) blocks, plates, sheets or strip (including sharpened blanks for corks or stoppers)	4502	Resource-based manufactures: agro-based	Forest Products	BELOW	2604385.763	0.842342003	5
Yarn of fine animal hair (carded or combed), not put up for retail sale.	5108	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	950529.1799	0.8507440376	5
Flax yarn.	5306	Resource-based manufactures: agro-based	Cereals, etc.	BELOW	2944254.662	0.8464601996	5
Parts, trimmings and accessories of articles of heading 66.01 or 66.02.	6603	Low technology manufactures: other products	Labor Intensive	BELOW	1871826.127	0.850283521	5
Articles of asbestos- cement, of cellulose fibre- cement or the like	6811	Resource-based manufactures: other	Labor Intensive	ABOVE	5153290.716	0.8522052603	5
Bars and rods, hot- rolled, in irregularly wound coils, of iron or non- alloy steel.	7213	Low technology manufactures: other products	Capital Intensive	BELOW	3559590.033	0.8529553407	5
Stranded wire, cables, plaited bands and the like, of copper, not electrically insulated.	7413	Resource-based manufactures: other	Raw Materials	BELOW	2642631.814	0.8474604921	5
Nickel mattes, nickel oxide sinters and other intermediate products of nickel metallurgy.	7501	Resource-based manufactures: other	Raw Materials	ABOVE	4071115.21	0.8426513306	5
Antimony and articles thereof, including waste and scrap.	8110	Resource-based manufactures: other	Raw Materials	ABOVE	17253836.01	0.8435857791	5
Manganese and articles thereof, including waste and scrap.	8111	Resource-based manufactures: other	Raw Materials	BELOW	683205.1897	0.8522015538	5
Other vessels, including warships and lifeboats other than rowing boats.	8906	Medium technology manufactures: engineering	Machinery	ABOVE	5654776.918	0.8466157152	5
Cigarette lighters and other lighters, whether or not mechanical or electrical, and parts thereof other than flints and wicks.	9613	High technology manufactures: electronic and electrical	Machinery	BELOW	1758870.761	0.8515749772	5
Live swine	103	Primary products	Animal Products	ABOVE	5909087.265	0.8655537936	6
Wheat and meslin	1001	Primary Products	Cereals, etc	ABOVE	4772188.509	0.8637657242	6
Linseed, whether or not broken	1204	Primary Products	Cereals, etc	BELOW	2543174.62	0.8610297171	6

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Rape or colza seeds, whether or not broken.	1205	Primary Products	Cereals, etc	ABOVE	5387270.906	0.8682247676	6
Animal or vegetable fats and oils and their fractions, boiled, oxidised, dehydrated, sulphurised, blown, polymerised by heat in vacuum or in inert gas or otherwise chemically modified, excluding those of heading 15.16; inedible mixtures or preparations of animal or vegetable fats or oils or of fractions of different fats or oils of this Chapter, not elsewhere specified or included.	1518	Resource-based manufactures: agro-based	Cereals, etc.	BELOW	2680353.615	0.859250212	6
Cocoa paste, whether or not defatted.	1803	Primary products	Tropical Agriculture	BELOW	3088670.897	0.8709787369	6
Other fermented beverages (for example, cider, perry, mead, saké); mixtures of fermented beverages and mixtures of fermented beverages and non- alcoholic beverages, not elsewhere specified or included	2206	Resource-based manufactures: agro-based	Tropical Agriculture	ABOVE	8836454.304	0.8656151112	6
Nickel ores and concentrates.	2604	Resource-based manufactures: other	Raw Materials	ABOVE	5005667.456	0.8625875364	6
Molybdenum ores and concentrates.	2613	Resource-based manufactures: other	Raw Materials	ABOVE	6970611.334	0.8689524463	6
Coke and semi- coke of coal, of lignite or of peat, whether or not agglomerated; retort carbon.	2704	Resource-based manufactures: other	Raw Materials	BELOW	3261751.588	0.87050787	6
Tar distilled from coal, from lignite or from peat, and other mineral tars, whether or not dehydrated or partially distilled, including reconstituted tars.	2706	Resource-based manufactures: other	Petroleum	ABOVE	3916338.639	0.8632830346	6
Bituminous mixtures based on natural asphalt, on natural bitumen, on petroleum bitumen, on mineral tar or on mineral tar pitch (for example, bituminous mastics, cutbacks).	2715	Resource-based manufactures: other	Raw Materials	BELOW	2939241.982	0.8665661599	6
Electrical energy. (optional heading)	2716	Resource-based manufactures: other	Raw Materials	ABOVE	8619546.47	0.8612156358	6
Alkali or alkaline- earth metals; rare- earth metals, scandium and yttrium, whether or not intermixed or inter- alloyed; mercury.	2805	Resource-based manufactures: other	Chemical	BELOW	1559467.923	0.8700465243	6
Sulphides; polysulphides, whether or not chemically defined.	2830	Resource-based manufactures: other	Chemical	ABOVE	4682477.138	0.8626278202	6
Nitrites; nitrates.	2834	Resource-based manufactures: other	Chemical	BELOW	3790946.242	0.8569882526	6
Borates; peroxoborates (perborates).	2840	Resource-based manufactures: other	Chemical	BELOW	1939840.185	0.8654613347	6
Diazo- , azo- or azoxy- compounds.	2927	Resource-based manufactures: other	Chemical	BELOW	1403319.185	0.8657449479	6

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Glands and other organs for organotherapeutic uses, dried, whether or not powdered; extracts of glands or other organs or of their secretions for organotherapeutic uses; heparin and its salts; other human or animal substances prepared for therapeutic or prophylactic uses, not elsewhere specified or included.	3001	High technology manufactures: other	Chemical	BELOW	2294338.809	0.870911126	6
Ferro- cerium and other pyrophoric alloys in all forms; articles of combustible materials as specified in Note 2 to this Chapter	3606	Medium technology manufactures: process	Chemical	ABOVE	4316482.228	0.8598720328	6
Photographic plates, film, paper, paperboard and textiles, exposed but not developed.	3704	Medium technology manufactures: process	Machinery	ABOVE	4143157.177	0.8683670774	6
Mixed alkylbenzenes and mixed alkylnaphthalenes, other than those of heading 27. 07 or 29. 02.	3817	Medium technology manufactures: process	Chemical	BELOW	3849633.561	0.8664478291	6
Raw furskins (including heads,tails, paws and other pieces or cuttings, suitable for furriers' use), other than raw hides and skins of heading 41.01, 41.02 or 41.03.	4301	Primary products	Animal Products	ABOVE	10494118.86	0.8646183201	6
Artificial fur and articles thereof.	4304	Primary Products	Animal Products	BELOW	1991850.928	0.8596258731	6
Hoopwood; split poles; piles, pickets and stakes of wood, pointed but not sawn lengthwise; wooden sticks, roughly trimmed but not turned, bent or otherwise worked, suitable for the manufacture of walking-sticks, umbrellas, tool handles or the like;chipwood and the like.	4404	Resource-based manufactures: agro-based	Forest Products	ABOVE	14120534.29	0.8602389378	6
Casks, barrels, vats, tubs and other coopers' products and parts thereof, of wood, including staves.	4416	Resource-based manufactures: agro-based	Forest Products	BELOW	3621832.128	0.8595294131	6
Chemical wood pulp, soda or sulphate, other than dissolving grades.	4703	Resource-based manufactures: agro-based	Forest Products	ABOVE	3940047.601	0.8669177042	6
Pulps of fibres derived from recovered (waste and scrap) paper or paperboard or of other fibrous cellulosic material.	4706	Resource-based manufactures: agro-based	Forest Products	BELOW	2195920.97	0.8598139011	6
Composite paper and paperboard (made by sticking flat layers of paper or paperboard together with an adhesive), not surfacecoated or impregnated, whether or not internally reinforced, in rolls or sheets.	4807	Resource-based manufactures: agro-based	Forest Products	BELOW	3143477.439	0.8684592415	6

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Yarn spun from silk waste, not put up for retail sale.	5005	Primary Products	Cereals, etc.	BELOW	562937.3564	0.8587113805	6
Silk yarn and yarn spun from silk waste, put up for retail sale; silk- worm gut.	5006	Primary Products	Cereals, etc.	BELOW	2699037.682	0.8599942537	6
Garnetted stock of wool or of fine or coarse animal hair.	5104	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	1689253.075	0.8592965017	6
Yarn of combed wool, not put up for retail sale.	5107	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2908819.525	0.8641679775	6
Woven fabrics of coarse animal hair or of horsehair.	5113	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2162043.713	0.8647722375	6
True hemp (Cannabis sativa L.), raw or processed but not spun; tow and waste of true hemp (including yarn waste and garnetted stock).	5302	Resource-based manufactures: agro-based	Cereals, etc.	ABOVE	11831314.5	0.8610452535	6
Synthetic staple fibres, carded, combed or otherwise processed for spinning.	5507	Medium technology manufactures: process	Cereals, etc.	BELOW	2303224.691	0.8694750276	6
Umbrellas and sun umbrellas (including walking- stick umbrellas, garden umbrellas and similar umbrellas).	6601	Low technology manufactures: other products	Labor Intensive	BELOW	1315473.656	0.8625316657	6
Roofing tiles, chimney- pots, cowls, chimney liners, architectural ornaments and other ceramic constructional goods.	6905	Low technology manufactures: other products	Labor Intensive	ABOVE	5008944.128	0.866460562	6
Safety glass, consisting of toughened (tempered) or laminated glass.	7007	Resource-based manufactures: other	Labor Intensive	ABOVE	5159620.72	0.8669625583	6
Multiple- walled insulating units of glass	7008	Resource-based manufactures: other	Labor Intensive	ABOVE	5103894.891	0.869658554	6
Silver (including silver plated with gold or platinum), unwrought or in semimanufactured forms, or in powder form.	7106	Primary Products	Raw Materials	BELOW	2057836.301	0.8627468857	6
Ferrous products obtained by direct reduction of iron ore and other spongy ferrous products, in lumps, pellets or similar forms; iron having a minimum purity by weight of 99.94 %, In lumps, pellets or similar forms.	7203	Low technology manufactures: other products	Capital Intensive	ABOVE	16077076.19	0.8644826868	6
Flat- rolled products of iron or non- alloy steel, of a width of less than 600 mm, clad, plated or coated.	7212	Low technology manufactures: other products	Capital Intensive	BELOW	2600583.909	0.8665145127	6
Nickel waste and scrap.	7503	Resource-based manufactures: other	Raw Materials	ABOVE	4873482.306	0.8660789188	6
Lead plates, sheets, strip and foil; lead powders and flakes.	7804	Primary Products	Raw Materials	ABOVE	4015260.526	0.8711993894	6
Other articles of lead.	7806	Primary products	Raw Materials	BELOW	2441452.324	0.8645451183	6
Magnesium and articles thereof, including waste and scrap.	8104	Resource-based manufactures: other	Raw Materials	BELOW	1623743.592	0.8698179897	6

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Armoured or reinforced safes, strong- boxes and doors and safe deposit lockers for strong- rooms, cash or deed boxes and the like, of base metal.	8303	High technology manufactures: electronic and electrical	Machinery	BELOW	2366562.379	0.8711282771	6
Hydraulic turbines, water wheels, and regulators therefor.	8410	High technology manufactures: electronic and electrical	Machinery	BELOW	3359054.653	0.8617565835	6
Railway or tramway goods vans and wagons, not self-propelled.	8606	Medium technology manufactures: process	Machinery	BELOW	3242296.624	0.8656524589	6
Chassis fitted with engines, for the motor vehicles of headings 87.01 to 87.05.	8706	Medium technology manufactures: automotive	Machinery	BELOW	2627155.629	0.8688259183	6
Balloons and dirigibles; gliders, hang gliders and other non- powered aircraft.	8801	Medium technology manufactures: automotive	Machinery	ABOVE	4189358.909	0.8688275702	6
Light- vessels, fire- floats, dredgers, floating cranes, and other vessels the navigability of which is subsidiary to their main function; floating docks; floating or submersible drilling or production platforms.	8905	Medium technology manufactures: engineering	Machinery	BELOW	3093723.103	0.8638393791	6
Clocks with watch movements, excluding clocks of heading 91.04.	9103	Medium technology manufactures: engineering	Machinery	ABOVE	4011211.258	0.857084621	6
Time switches with clock or watch movement or with synchronous motor.	9107	Medium technology manufactures: engineering	Machinery	BELOW	1536079.81	0.8669869568	6
Watch cases and parts thereof	9111	Medium technology manufactures: engineering	Machinery	ABOVE	6035304.114	0.8666392955	6
Military weapons, other than revolvers, pistols and the arms of heading 93. 07.	9301	Unclassified Products	-	BELOW	2781560.087	0.8621459759	6
Other arms (for example, spring, air or gas guns and pistols, truncheons), excluding those of heading 93.07.	9304	Unclassified Products	-	BELOW	2529982.977	0.8710415802	6
Parts and accessories of articles of headings 93.01 to 93.04.	9305	Unclassified Products	-	BELOW	2776683.39	0.8678984745	6
Slates and boards, with writing or drawing surfaces, whether or not framed.	9610	High technology manufactures: electronic and electrical	Machinery	BELOW	1694548.844	0.86280884	6
Meat of swine, fresh, chilled or frozen.	203	Primary products	Animal Products	BELOW	3123099.585	0.88578552	7
Pig fat, free of lean meat, and poultry fat, not rendered or otherwise extracted, fresh, chilled, frozen, salted, in brine, dried or smoked.	209	Primary products	Animal Products	ABOVE	4272601.293	0.8795222846	7
Rye	1002	Primary Products	Cereals, etc	ABOVE	18469177.33	0.8864615705	7
Wheat gluten, whether or not dried.	1109	Primary products	Cereals,etc.	BELOW	3072356.473	0.8870058182	7
Wool grease and fatty substances derived therefrom (including lanolin)	1505	Resource-based manufactures: other	Cereals, etc.	ABOVE	4028938.871	0.8751900073	7
Other animal fats and oils and their fractions, whether	1506	Resource-based manufactures: other	Cereals, etc.	BELOW	3289481.47	0.8753456577	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
or not refined, but not chemically modified.							
Extracts and juices of meat, fish or crustaceans, molluscs or other aquatic invertebrates.	1603	Resource-based manufactures: agro-based	Animal Products	ABOVE	6284285.142	0.87528482	7
Unroasted iron pyrites.	2502	Primary Products	Raw Materials	BELOW	2240695.356	0.8721361497	7
Cobalt ores and concentrates	2605	Resource-based manufactures: other	Raw Materials	BELOW	1963846.664	0.8861340295	7
Carbon (carbon blacks and other forms of carbon not elsewhere specified or included).	2803	Resource-based manufactures: other	Chemical	BELOW	2157326.579	0.87599213	7
Chromium oxides and hydroxides.	2819	Resource-based manufactures: other	Chemical	ABOVE	5567249.926	0.8731667622	7
Manganese oxides.	2820	Resource-based manufactures: other	Chemical	ABOVE	4682262.934	0.8728013621	7
Cobalt oxides and hydroxides; commercial cobalt oxides.	2822	Resource-based manufactures: other	Chemical	BELOW	1529295.582	0.883992725	7
Carbides, whether or not chemically defined.	2849	Resource-based manufactures: other	Chemical	BELOW	1687099.326	0.8817899242	7
Inorganic or organic compounds of mercury, whether or not chemically defined, excluding amalgams	2852	Resource-based manufactures: other	Chemical	BELOW	3387822.91	0.8790736404	7
Acyclic hydrocarbons.	2901	Resource-based manufactures: other	Chemical	BELOW	2388884.39	0.8821791731	7
Phenols; phenol-alcohols.	2907	Resource-based manufactures: other	Chemical	BELOW	2050083.959	0.8862956658	7
Acetals and hemiacetals, whether or not with other oxygen function, and their halogenated, sulphonated, nitrated or nitrosated derivatives.	2911	Resource-based manufactures: other	Chemical	BELOW	1698802.542	0.8868621025	7
Aldehydes, whether or not with other oxygen function; cyclic polymers of aldehydes; paraformaldehyde.	2912	Resource-based manufactures: other	Chemical	BELOW	1395916.974	0.8853360754	7
Halogenated, sulphonated, nitrated or nitrosated derivatives of products of heading 29.12.	2913	Resource-based manufactures: other	Chemical	BELOW	505360.7698	0.8778428265	7
Sulphonamides.	2935	Resource-based manufactures: other	Chemical	ABOVE	6033460.758	0.8776615126	7
Alkaloids, natural or reproduced by synthesis, and their salts, ethers, esters and other derivatives.	2939	Resource-based manufactures: other	Chemical	BELOW	2001800.718	0.8727622364	7
Sugars, chemically pure, other than sucrose, lactose, maltose, glucose and fructose; sugar ethers, sugar acetals and sugar esters, and their salts, other than products of heading 29. 37, 29. 38 or 29.39.	2940	Resource-based manufactures: other	Chemical	BELOW	2867636.347	0.8840973197	7
Cinematographic film, exposed and developed, whether or not incorporating	3706	Medium technology manufactures: process	Machinery	BELOW	1616394.067	0.8791961339	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
sound track or consisting only of sound track.							
Preparations and charges for fireextinguishers; charged fire- extinguishing grenades.	3813	Medium technology manufactures: process	Chemical	BELOW	2401525.762	0.8819092623	7
Anti- freezing preparations and prepared deicing fluids.	3820	Medium technology manufactures: process	Chemical	BELOW	3470560.619	0.8860829589	7
Natural polymers (for example, alginic acid) and modified natural polymers (for example, hardened proteins, chemical derivatives of natural rubber), not elsewhere specified or included, in primary forms.	3913	Medium technology manufactures: process	Chemical	BELOW	3147376.773	0.8839050633	7
Wood in the rough, whether or not stripped of bark or sapwood, or roughly squared	4403	Resource-based manufactures: agro-based	Forest Products	ABOVE	13299645.53	0.8740553529	7
Chemical wood pulp, dissolving grades	4702	Resource-based manufactures: agro-based	Forest Products	ABOVE	4763728.897	0.8754839572	7
Filter blocks, slabs and plates, of paper pulp.	4812	Resource-based manufactures: agro-based	Forest Products	BELOW	3516961.784	0.8781459419	7
Artificial monofilament of 67 decitex or more and of which no cross- sectional dimension exceeds 1mm; strip and the like (for example, artificial straw) of artificial textile materials of an apparent width not exceeding 5 mm.	5405	Medium technology manufactures: process	Chemical	ABOVE	4615604.367	0.8836972216	7
Gauze, other than narrow fabrics of heading 58.06.	5803	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	1714124.922	0.8745045736	7
Linoleum, whether or not cut to shape; floor coverings consisting of a coating or covering applied on a textile backing, whether or not cut to shape.	5904	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	1775801.62	0.8831198771	7
Fabricated asbestos fibres; mixtures with a basis of asbestos or with a basis of asbestos and magnesium carbonate; articles of such mixtures or of asbestos (for example, thread, woven fabric, clothing, headgear, footwear, gaskets), whether or not reinforced, other than goods of heading 68.11 or 68.13.	6812	Resource-based manufactures: other	Labor Intensive	BELOW	1719230.461	0.8721472288	7
Dust and powder of natural or synthetic precious or semi-precious stones.	7105	Primary Products	Raw Materials	ABOVE	4471580.62	0.8862029664	7
Bars and rods, hot- rolled, in irregularly wound coils, of stainless steel.	7221	Low technology manufactures: other products	Capital Intensive	BELOW	1525123.651	0.8815766112	7
Wire of stainless steel.	7223	Low technology manufactures: other products	Capital Intensive	BELOW	2186961.106	0.8811152523	7
Other alloy steel in ingots or other primary forms; semi-finished products of other alloy steel.	7224	Low technology manufactures: other products	Capital Intensive	BELOW	2534153.233	0.8767110075	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Other tubes and pipes (for example, welded, riveted or similarly closed), having circular cross-sections, the external diameter of which exceeds 406.4 mm, of iron or steel.	7305	Medium technology manufactures: process	Machinery	BELOW	1958671.077	0.8770012699	7
Master alloys of copper.	7405	Resource-based manufactures: other	Raw Materials	BELOW	3204324.569	0.8820682525	7
Aluminium powders and flakes.	7603	Resource-based manufactures: other	Raw Materials	BELOW	3326982.883	0.8849736287	7
Aluminium reservoirs tanks, vats and similar containers, for any material (other than compressed or liquefied gas), of a capacity exceeding 300 l, whether or not lined or heatinsulated, but not fitted with mechanical or thermal equipment.	7611	Resource-based manufactures: other	Raw Materials	ABOVE	4108516.722	0.8861589212	7
Aluminium containers for compressed or liquefied gas.	7613	Resource-based manufactures: other	Raw Materials	BELOW	3013141.868	0.8871387337	7
Lead waste and scrap.	7802	Primary Products	Raw Materials	ABOVE	31373196.58	0.8720702977	7
Zinc bars, rods, profiles and wire.	7904	Primary products	Raw Materials	BELOW	3738521.136	0.8753887675	7
Zinc plates, sheets, strip and foil.	7905	Primary products	Raw Materials	BELOW	2509843.131	0.8819073911	7
Tin waste and scrap.	8002	Primary products	Raw Materials	BELOW	3588860.329	0.8802843805	7
Tin bars, rods, profiles and wire	8003	Primary products	Raw Materials	BELOW	1819078.334	0.8745530443	7
Other articles of tin.	8007	Primary products	Raw Materials	BELOW	2028658.223	0.8809212438	7
Cobalt mattes and other intermediate products of cobalt metallurgy; cobalt and articles thereof, including waste and scrap	8105	Resource-based manufactures: other	Raw Materials	BELOW	3295547.881	0.8797685106	7
Cadmium and articles thereof, including waste and scrap.	8107	Resource-based manufactures: other	Raw Materials	BELOW	2699587.795	0.8818542311	7
Machinery for the manufacture or finishing of felt or nonwovens in the piece or in shapes, including machinery for making felt hats; blocks for making hats.	8449	High technology manufactures: electronic and electrical	Machinery	BELOW	1153691.495	0.8821687864	7
Automatic goods- vending machines (for example, postage stamp, cigarette, food or beverage machines), including moneychanging machines.	8476	High technology manufactures: electronic and electrical	Machinery	BELOW	3493292.49	0.8810886765	7
Shavers, hair clippers and hair- removing appliances, with self- contained electric motor	8510	Medium technology manufactures: engineering	Machinery	BELOW	1997198.738	0.8756127167	7
Reception apparatus for radio- broadcasting, whether or not combined, in the same housing, with sound recording or reproducing apparatus or a clock.	8527	Medium technology manufactures: engineering	Machinery	BELOW	1942859.579	0.880646747	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Railway or tramway passenger coaches, not self-propelled; luggage vans, post office coaches and other special purpose railway or tramway coaches, not self-propelled (excluding those of heading 86.04)	8605	Medium technology manufactures: process	Machinery	BELOW	3133729.622	0.8758926804	7
Railway or tramway track fixtures and fittings; mechanical (including electromechanical) signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields; parts of the foregoing	8608	Medium technology manufactures: process	Machinery	BELOW	3880056.498	0.8824405192	7
Tanks and other armoured fighting vehicles, motorised, whether or not fitted with weapons, and parts of such vehicles	8710	Medium technology manufactures: automotive	Machinery	BELOW	2610251.41	0.8754709863	7
Carriages for disabled persons, whether or not motorised or otherwise mechanically propelled.	8713	Medium technology manufactures: automotive	Machinery	BELOW	1547732.74	0.8804716082	7
Aircraft launching gear; deck-arrestor or similar gear; ground flying trainers; parts of the foregoing articles	8805	Medium technology manufactures: automotive	Machinery	BELOW	2428155.362	0.8781418913	7
Image projectors, other than cinematographic; photographic (other than cinematographic) enlargers and reducers.	9008	High technology manufactures: other	Machinery	BELOW	1691391.42	0.8815851788	7
Clock cases and cases of a similar type for other goods of this Chapter, and parts thereof.	9112	Medium technology manufactures: engineering	Machinery	BELOW	1336243.087	0.8729521341	7
Hand sieves and hand riddles.	9604	High technology manufactures: electronic and electrical	Machinery	BELOW	1964024.678	0.879672356	7
Typewriter or similar ribbons, inked or otherwise prepared for giving impressions, whether or not on spools or in cartridges; ink-pads, whether or not inked, with or without boxes.	9612	High technology manufactures: electronic and electrical	Machinery	BELOW	2079169.111	0.8848305692	7
Flour, meal, powder, flakes, granules and pellets of potatoes	1105	Primary products	Cereals,etc.	BELOW	2838040.3	0.8899557729	8
Malt, whether or not roasted.	1107	Primary products	Cereals,etc.	ABOVE	6613764.698	0.8883977841	8
Hop cones, fresh or dried, whether or not ground, powdered or in the form of pellets; lupulin.	1210	Primary Products	Cereals, etc	BELOW	2651377.688	0.8891185051	8
Asbestos.	2524	Primary products	Raw Materials	BELOW	1386843.492	0.9005832994	8
Peat (including peat litter), whether or not agglomerated.	2703	Resource-based manufactures: other	Raw Materials	ABOVE	12164641.26	0.8939338582	8
Coal gas, water gas, producer gas and similar gases, other	2705	Resource-based manufactures: other	Raw Materials	BELOW	2770045.623	0.8880865804	8

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
than petroleum gases and other gaseous hydrocarbons.							
Pitch and pitch coke, obtained from coal tar or from other mineral tars.	2708	Resource-based manufactures: other	Raw Materials	BELOW	1522198.683	0.896685794	8
Hydroxide and peroxide of magnesium; oxides, hydroxides and peroxides, of strontium or barium.	2816	Resource-based manufactures: other	Chemical	BELOW	3199354.518	0.8967764242	8
Cyanides, cyanide oxides and complex cyanides.	2837	Resource-based manufactures: other	Chemical	BELOW	3379596.719	0.8959331155	8
Salts of oxometallic or peroxometallic acids	2841	Resource-based manufactures: other	Chemical	BELOW	1531514.077	0.897925949	8
Radioactive chemical elements and radioactive isotopes (including the fissile or fertile chemical elements and isotopes) and their compounds; mixtures and residues containing these products.	2844	Resource-based manufactures: other	Chemical	BELOW	1942568.61	0.8955908018	8
Isotopes other than those of heading 28.44; compounds, inorganic or organic, of such isotopes, whether or not chemically defined	2845	Resource-based manufactures: other	Chemical	BELOW	2224588.347	0.8923321429	8
Compounds, inorganic or organic, of rareearth metals, of yttrium or of scandium or of mixtures of these metals.	2846	Resource-based manufactures: other	Chemical	BELOW	2454498.015	0.8905501973	8
Halogenated, sulphonated, nitrated or nitrosated derivatives of phenols or phenolalcohols.	2908	Resource-based manufactures: other	Chemical	ABOVE	6559616.45	0.895991938	8
Ketones and quinones, whether or not with other oxygen function, and their halogenated, sulphonated, nitrated or nitrosated derivatives.	2914	Resource-based manufactures: other	Chemical	BELOW	1678709.938	0.8938158897	8
Esters of other inorganic acids of non- metals (excluding esters of hydrogen halides) and their salts; their halogenated, sulphonated, nitrated or nitrosated derivatives.	2920	Resource-based manufactures: other	Chemical	BELOW	1825647.672	0.8987813118	8
Other organo- inorganic compounds.	2931	Resource-based manufactures: other	Chemical	BELOW	835672.1665	0.8963737736	8
Propellant powders	3601	Medium technology manufactures: process	Chemical	BELOW	3855172.652	0.8965281489	8
Tall oil, whether or not refined.	3803	Medium technology manufactures: process	Chemical	ABOVE	4215881.027	0.888065081	8
Pickling preparations for metal surfaces; fluxes and other auxiliary preparations for soldering, brazing or welding; soldering, brazing or welding powders and pastes consisting of metal and other materials; preparations of a kind used as cores or coatings for welding electrodes or rods.	3810	Medium technology manufactures: process	Chemical	BELOW	2021553.327	0.8973751851	8

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Hydraulic brake fluids and other prepared liquids for hydraulic transmission, not containing or containing less than 70 % by weight of petroleum oils or oils obtained from bituminous minerals.	3819	Medium technology manufactures: process	Chemical	BELOW	2218065.056	0.8917159139	8
Residual products of the chemical or allied industries, not elsewhere specified or included; municipal waste; sewage sludge; other wastes specified in Note 6 to this Chapter	3825	Medium technology manufactures: process	Chemical	ABOVE	8217185.279	0.8896233052	8
Ion- exchangers based on polymers of headings 39.01 to 39.13, in primary forms.	3914	Medium technology manufactures: process	Chemical	BELOW	3313665.108	0.8936575881	8
Railway or tramway sleepers (cross- ties) of wood.	4406	Resource-based manufactures: agro-based	Forest Products	BELOW	3832919.12	0.8901155808	8
Mechanical wood pulp.	4701	Resource-based manufactures: agro-based	Forest Products	ABOVE	11133314.52	0.8880403706	8
Wood pulp obtained by a combination of mechanical and chemical pulping processes	4705	Resource-based manufactures: agro-based	Forest Products	ABOVE	7231278.11	0.9023910277	8
Yarn of coarse animal hair or of horsehair (including gimped horsehair yarn), whether or not put up for retail sale.	5110	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	3619421.851	0.8887853289	8
Textile hosepiping and similar textile tubing with or without lining, armour or accessories of other materials.	5909	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2302349.557	0.8882610734	8
Laboratory, hygienic or pharmaceutical glassware, whether or not graduated or calibrated.	7017	Resource-based manufactures: other	Labor Intensive	BELOW	2309057.04	0.8968081138	8
Base metals or silver, clad with gold, not further worked than semi- manufactured.	7109	Primary Products	Raw Materials	BELOW	2336488.241	0.9012104872	8
Platinum, unwrought or in semimanufactured forms, or in powder form.	7110	Primary Products	Raw Materials	BELOW	2153304.275	0.8950285073	8
Base metals, silver or gold, clad with platinum, not further worked than semimanufactured.	7111	Primary Products	Raw Materials	BELOW	2854168.654	0.893025399	8
Coin	7118	Primary Products	Raw Materials	ABOVE	6906074.798	0.8993697456	8
Railway or tramway track construction material of iron or steel, the following: rails, check- rails and rack rails, switch blades, crossing frogs, point rods and other crossing pieces, sleepers (cross- ties), fish- plates, chairs, chair wedges, sole plates (base plates), rail clips, bedplates, ties and other material specialized for jointing or fixing rails.	7302	Medium technology manufactures: process	Machinery	ABOVE	8493295.101	0.8898960776	8

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Unwrought nickel.	7502	Resource-based manufactures: other	Raw Materials	ABOVE	4506966.613	0.8960276839	8
Nickel bars, rods, profiles and wire.	7505	Resource-based manufactures: other	Raw Materials	BELOW	2481384.64	0.9023927093	8
Nickel tubes, pipes and tube or pipe fittings (for example, couplings, elbows, sleeves).	7507	Resource-based manufactures: other	Raw Materials	BELOW	2370519.717	0.8899162849	8
Molybdenum and articles thereof, including waste and scrap.	8102	Resource-based manufactures: other	Raw Materials	BELOW	2396068.965	0.8958440645	8
Tantalum and articles thereof, including waste and scrap.	8103	Resource-based manufactures: other	Raw Materials	BELOW	1812089.819	0.8897709218	8
Bismuth and articles thereof, including waste and scrap.	8106	Resource-based manufactures: other	Raw Materials	BELOW	1180588.415	0.8924339145	8
Beryllium, chromium, germanium, vanadium, gallium, hafnium, indium, niobium (columbium), rhenium and thallium, and articles of these metals, including waste and scrap.	8112	Resource-based manufactures: other	Raw Materials	BELOW	2141526.018	0.8933922161	8
Rail locomotives powered from an external source of electricity or by electric accumulators.	8601	Medium technology manufactures: process	Machinery	BELOW	1880236.123	0.8899006707	8
Other rail locomotives; locomotive tenders	8602	Medium technology manufactures: process	Machinery	BELOW	2079216.505	0.8935653388	8
Railway or tramway maintenance or service vehicles, whether or not self-propelled (for example, workshops, cranes, ballast tampers, trackliners, testing coaches and track inspection vehicles).	8604	Medium technology manufactures: process	Machinery	BELOW	3735783.651	0.889992674	8
Balances of a sensitivity of 5 cg or better, with or without weights.	9016	High technology manufactures: other	Machinery	BELOW	2283046.173	0.8939516893	8
Paintings, drawings and pastels, executed entirely by hand, other than drawings of heading 49.06 and other than hand-painted or hand-decorated manufactured articles; collages and similar decorative plaques.	9701	Unclassified products	Labor Intensive	BELOW	2616579.133	0.8930060693	8
Original sculptures and statuary, in any material.	9703	Unclassified products	Labor Intensive	BELOW	2411539.1	0.8891611075	8
Postage or revenue stamps, stampostmarks, first-day covers, postal stationery (stamped paper), and the like, used or unused, other than those of heading 49.07.	9704	Unclassified products	Labor Intensive	ABOVE	3995752.643	0.8934367501	8
Collections and collectors' pieces of zoological, botanical, mineralogical, anatomical, historical, archaeological, palaeontological, ethnographic or numismatic interest.	9705	Unclassified products	Labor Intensive	BELOW	2812903.951	0.9003081412	8
Lard stearin, lard oil, oleostearin, oleoil and	1503	Resource-based manufactures: other	Cereals, etc.	ABOVE	4530527.457	0.9031955326	9

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
tallow oil, not emulsified or mixed or otherwise prepared.							
Halides and halide oxides of non- metals.	2812	Resource-based manufactures: other	Chemical	BELOW	1096563.075	0.9162202051	9
Sulphides of non- metals; commercial phosphorus trisulphide.	2813	Resource-based manufactures: other	Chemical	BELOW	1829292.903	0.9143672446	9
Hydrides, nitrides, azides, silicides and borides, whether or not chemically defined, other than compounds which are also carbides of heading 28.49.	2850	Resource-based manufactures: other	Chemical	BELOW	1273535.167	0.9057411603	9
Phosphides, whether or not chemically defined, excluding ferrophosphorus; other inorganic compounds (including distilled or conductivity water and water of similar purity); liquid air (whether or not rare gases have been removed); compressed air; amalgams, other than amalgams of precious metals.	2853	Resource-based manufactures: other	Chemical	BELOW	1378103.279	0.9073979189	9
Epoxides, epoxyalcohols, epoxyphenols and epoxyethers, with a three-membered ring, and their halogenated, sulphonated, nitrated or nitrosated derivatives.	2910	Resource-based manufactures: other	Chemical	BELOW	1819968.961	0.910691177	9
Phosphoric esters and their salts, including lactophosphates; their halogenated, sulphonated, nitrated or nitrosated derivatives.	2919	Resource-based manufactures: other	Chemical	BELOW	650892.3799	0.9080609464	9
Nitrile- function compounds.	2926	Resource-based manufactures: other	Chemical	BELOW	1016075.295	0.9051958789	9
Compounds with other nitrogen function.	2929	Resource-based manufactures: other	Chemical	BELOW	1799221.515	0.9061186951	9
Photographic film in rolls, sensitised, unexposed, of any material other than paper, paperboard or textiles; instant print film in rolls, sensitised, unexposed.	3702	Medium technology manufactures: process	Machinery	BELOW	1483777.137	0.9118259	9
Wood tar; wood tar oils; wood creosote; wood naphtha; vegetable pitch; brewers' pitch and similar preparations based on rosin, resin acids or on vegetable pitch.	3807	Medium technology manufactures: process	Chemical	ABOVE	4717448.548	0.9045716847	9
Chemical elements doped for use in electronics, in the form of discs, wafers or similar forms; chemical compounds doped for use in electronics.	3818	Medium technology manufactures: process	Chemical	BELOW	1264326.895	0.9109161257	9
Chemical wood pulp, sulphite, other than dissolving grades.	4704	Resource-based manufactures: agro-based	Forest Products	BELOW	1778159.077	0.9152097184	9

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Music, printed or in manuscript, whether or not bound or illustrated.	4904	Unclassified products	Labor Intensive	BELOW	1582177.317	0.9133425193	9
Glass of heading 70.03, 70.04 or 70.05, bent, edgeworked, engraved, drilled, enamelled or otherwise worked, but not framed or fitted with other materials.	7006	Resource-based manufactures: other	Labor Intensive	BELOW	1522883.316	0.9092575998	9
Signalling glassware and optical elements of glass (other than those of heading 70.15), not optically worked.	7014	Resource-based manufactures: other	Labor Intensive	BELOW	1328858.911	0.9112659336	9
Base metals clad with silver, not further worked than semi-manufactured.	7107	Primary Products	Raw Materials	BELOW	1266390.072	0.906121091	9
Copper foil (whether or not printed or backed with paper, paperboard, plastics or similar backing materials), of a thickness (excluding any backing) not exceeding 0.15 mm.	7410	Resource-based manufactures: other	Raw Materials	ABOVE	4127704.416	0.9056368811	9
Nickel plates, sheets, strip and foil.	7506	Resource-based manufactures: other	Raw Materials	BELOW	1479358.323	0.9166672606	9
Other articles of nickel	7508	Resource-based manufactures: other	Raw Materials	BELOW	1993572.887	0.9099096559	9
Zirconium and articles thereof, including waste and scrap.	8109	Resource-based manufactures: other	Raw Materials	BELOW	1491747.401	0.9101492498	9
Cermets and articles thereof, including waste and scrap	8113	Resource-based manufactures: other	Raw Materials	ABOVE	4244374.26	0.9109312155	9
Machining centres, unit construction machines (single station) and multi- station transfer machines, for working metal.	8457	High technology manufactures: electronic and electrical	Machinery	BELOW	2232622.726	0.9083070027	9
Complete watch or clock movements, unassembled or partly assembled (movement sets); incomplete watch or clock movements, assembled; rough watch or clock movements.	9110	Medium technology manufactures: engineering	Machinery	BELOW	2404742.725	0.9083773943	9
Original engravings, prints and lithographs	9702	Unclassified products	Labor Intensive	BELOW	2299322.659	0.9066969064	9
Antiques of an age exceeding one hundred years.	9706	Unclassified products	Labor Intensive	BELOW	2201481.065	0.9086879709	9
Colloidal precious metals; inorganic or organic compounds of precious metals, whether or not chemically defined; amalgams of precious metals.	2843	Resource-based manufactures: other	Chemical	BELOW	1552481.615	0.9317543503	10
Photographic plates and film, exposed and developed, other than cinematographic film.	3705	Medium technology manufactures: process	Machinery	BELOW	1516424.831	0.9339289795	10
Microscopes other than optical microscopes; diffraction apparatus.	9012	High technology manufactures: other	Machinery	BELOW	2279646.317	0.9276672393	10
Watch movements, complete and assembled.	9108	Medium technology manufactures: engineering	Machinery	BELOW	2129438.797	0.9281633703	10

## Appendix 2: List of Exports of Value less than USD 1 million with Distance and Sophistication Measures

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Nutmeg, mace and cardamoms	908	Primary products	Tropical Agriculture	ABOVE	41957043.76	0.7789346773	1
Tapioca and substitutes therefor prepared from starch, in the form of flakes, grains, pearls, siftings or in similar forms.	1903	Primary products	Tropical Agriculture	BELOW	1248267.343	0.7661773778	1
Tanned or crust skins of sheep or lambs, without wool on, whether or not split, but not further prepared.	4105	Low technology manufactures: textile, garment and footwear	Capital Intensive	ABOVE	4079750.536	0.7626893603	1
Silk- worm cocoons suitable for reeling.	5001	Primary Products	Cereals,etc.	ABOVE	15871570.62	0.7784797822	1
Manioc, arrowroot, salep, Jerusalem artichokes, sweet potatoes and similar roots and tubers with high starch or inulin content, fresh, chilled, frozen or dried, whether or not sliced or in the form of pellets; sago pith.	714	Primary products	Tropical Agriculture	ABOVE	19386369.95	0.7955564103	2
Copra	1203	Primary Products	Cereals, etc.	ABOVE	13067540.05	0.7856944251	2
Lac; natural gums, resins, gum- resins and oleoresins (for example, balsams).	1301	Primary products	Tropical Agriculture	BELOW	2881668.744	0.7896604151	2
Slate, whether or not roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape.	2514	Primary products	Raw Materials	BELOW	2407195.499	0.7958765747	2
Manganese ores and concentrates, Including ferruginous manganese ores and concentrates with a manganese content of 20 % or more, calculated on the dry weight.	2602	Resource-based manufactures: other	Raw Materials	BELOW	2661115.454	0.7835808203	2
Wool, not carded or combed	5101	Low technology manufactures: textile, garment and footwear	Capital Intensive	ABOVE	6559392.934	0.7930440695	2
Jute and other textile bast fibres (excluding flax, true hemp and ramie), raw or processed but not spun; tow and wastes of these fibres (including yarn waste and garnetted stock).	5303	Resource-based manufactures: agro-based	Cereals, etc.	ABOVE	4331388.546	0.7844523286	2
Vegetables provisionally preserved (for example, by sulphur dioxide gas, in brine, in sulphur water or in other preservative solutions), but unsuitable in that state for immediate consumption.	711	Primary products	Tropical Agriculture	ABOVE	3920054.328	0.8131110177	3
Dried leguminous vegetables, shelled, whether or not skinned or split.	713	Primary products	Tropical Agriculture	ABOVE	5361129.502	0.7998766195	3
Coconuts, Brazil nuts and cashew nuts, fresh or dried, whether or not shelled or peeled.	801	Primary products	Tropical Agriculture	ABOVE	4564279.407	0.8109710809	3
Mate.	903	Primary products	Tropical Agriculture	ABOVE	5679669.38	0.8105803785	3
Olive oil and its fractions, whether or not refined, but not chemically modified.	1509	Resource-based manufactures: other	Cereals, etc.	ABOVE	5165224.811	0.8119907823	3

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Palm oil and its fractions, whether or not refined, but not chemically modified.	1511	Resource-based manufactures: other	Cereals, etc.	BELOW	3692784.637	0.8087641209	3
Cane or beet sugar and chemically pure sucrose, in solid form.	1701	Resource-based manufactures: agro-based	Animal Products	ABOVE	10050647.74	0.8063228912	3
Molasses resulting from the extraction or refining of sugar.	1703	Resource-based manufactures: agro-based	Animal Products	ABOVE	15340325.9	0.8134267535	3
Tomatoes prepared or preserved otherwise than by vinegar or acetic acid.	2002	Primary products	Tropical Agriculture	BELOW	3101903.409	0.8063521122	3
Aluminium ores and concentrates.	2606	Resource-based manufactures: other	Raw Materials	ABOVE	17859302.25	0.8087803243	3
Titanium ores and concentrates	2614	Resource-based manufactures: other	Raw Materials	ABOVE	6640346.296	0.8038534708	3
Other ores and concentrates	2617	Resource-based manufactures: other	Raw Materials	ABOVE	9579936.034	0.8123981354	3
Coconut, abaca (Manila hemp or <i>Musa textilis</i> Nee), ramie and other vegetable textile fibres, not elsewhere specified or included, raw or processed but not spun; tow, noils and waste of these fibres (including yarn waste and garnetted stock).	5305	Resource-based manufactures: agro-based	Cereals, etc.	ABOVE	7788589.985	0.8049127781	3
Yarn of jute or of other textile bast fibres of heading 53.03.	5307	Resource-based manufactures: agro-based	Cereals, etc.	ABOVE	5252509.558	0.8137716401	3
Artificial staple fibres, carded, combed or otherwise processed for spinning.	5508	Medium technology manufactures: process	Cereals, etc.	BELOW	2476421.5	0.8062932573	3
Other carpets and other textile floor coverings, whether or not made up	5705	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2136092.98	0.8062858176	3
Hat- shapes, plaited or made by assembling strips of any material, neither blocked to shape, nor with made brims, nor lined, nor trimmed.	6502	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	3658522.189	0.8005758789	3
Wigs, false beards, eyebrows and eyelashes, switches and the like, of human or animal hair or of textile materials; articles of human hair not elsewhere specified or included.	6704	Low technology manufactures: other products	Labor Intensive	BELOW	1090979.975	0.8027673555	3
Bricks, blocks, tiles and other ceramic goods of siliceous fossil meals (for example, kieselguhr, tripolite or diatomite) or of similar siliceous earths.	6901	Low technology manufactures: other products	Labor Intensive	BELOW	3813142.398	0.8115708943	3
Live sheep and goats.	104	Primary products	Animal Products	ABOVE	13759298.75	0.8228295691	4
Coral and similar materials, unworked or simply prepared but not otherwise worked; shells of molluscs, crustaceans or echinoderms and cuttle- bone, unworked or simply prepared but not cut to shape, powder and waste thereof.	508	Primary Products	Animal Products	BELOW	3657519.895	0.8278228061	4
Cucumbers and gherkins fresh or chilled.	707	Primary products	Tropical Agriculture	BELOW	3473346.892	0.824026775	4
Leguminous vegetables, shelled or unshelled, fresh or chilled.	708	Primary products	Tropical Agriculture	ABOVE	5607470.679	0.8217645449	4

<b>Names</b>	<b>Codes</b>	<b>Lall Classification</b>	<b>Leamer's name</b>	<b>Prody above or below Pak Ave</b>	<b>Prody</b>	<b>Distance</b>	<b>Groups</b>
Grapes, fresh or dried.	806	Primary products	Tropical Agriculture	ABOVE	5352483.069	0.8241123343	4
Apricots, cherries, peaches (including nectarines), plums and sloes, fresh.	809	Primary products	Tropical Agriculture	ABOVE	5962961.455	0.8291489923	4
Fruit and nuts, uncooked or cooked by steaming or boiling in water, frozen, whether or not containing added sugar or other sweetening matter.	811	Primary products	Tropical Agriculture	ABOVE	7508191.746	0.8302871075	4
Fruit and nuts, provisionally preserved (for example, by sulphur dioxide gas, in brine, in sulphur water or in other preservative solutions), but unsuitable in that state for immediate consumption.	812	Primary products	Tropical Agriculture	ABOVE	7533607.734	0.8180961717	4
Peel of citrus fruit or melons (including watermelons) fresh, frozen, dried or provisionally preserved in brine, in sulphur water or in other preservative solutions.	814	Primary products	Tropical Agriculture	ABOVE	4251915.227	0.8220615858	4
Vanilla.	905	Primary products	Tropical Agriculture	ABOVE	23838042.41	0.8261074342	4
Cinnamon and cinnamon- tree flowers	906	Primary products	Tropical Agriculture	ABOVE	13590607.91	0.8168503098	4
Cloves (whole fruit, cloves and stems)	907	Primary products	Tropical Agriculture	ABOVE	77042162.51	0.8246570279	4
Grain sorghum.	1007	Primary Products	Cereals, etc.	BELOW	2495271.345	0.821080942	4
Wheat or meslin flour	1101	Resource-based manufactures: agro-based	Cereals, etc.	ABOVE	33139361.34	0.8235983327	4
Flour, meal and powder of the dried leguminous vegetables of heading 07.13, of sago or of roots or tubers of heading 07.14 or of the products of Chapter 8.	1106	Resource-based manufactures: agro-based	Cereals, etc.	ABOVE	5061041.504	0.8253952912	4
Ground- nuts, not roasted or otherwise cooked, whether or not shelled or broken.	1202	Primary Products	Cereals, etc.	ABOVE	5861819.982	0.8161302979	4
Locust beans, seaweeds and other algae, sugar beet and sugar cane, fresh, chilled, frozen or dried, whether or not ground; fruit stones and kernels and other vegetable products (including unroasted chicory roots of the variety <i>Cichorium intybus sativum</i> ) of a kind used primarily for human consumption, not elsewhere specified or included.	1212	Primary Products	Cereals, etc.	ABOVE	5673544.265	0.8275801967	4
Ground- nut oil and its fractions, whether or not refined, but not chemically modified.	1508	Resource-based manufactures: other	Cereals, etc.	BELOW	3158478.455	0.8262084995	4
Other oils and their fractions, obtained solely from olives, whether or not refined, but not chemically modified, including blends of these oils or fractions with oils or fractions of heading 15.09.	1510	Resource-based manufactures: other	Cereals, etc.	ABOVE	4440180.188	0.8174743165	4
Prepared or preserved fish; caviar and caviar substitutes prepared from fish eggs.	1604	Resource-based manufactures: agro-based	Animal Products	ABOVE	17486170.79	0.8260327263	4

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Oil- cake and other solid residues, whether or not ground or in the form of pellets, resulting from the extraction of ground- nut oil.	2305	Resource-based manufactures: agro-based	Tropical Agriculture	ABOVE	4300068.339	0.8280056416	4
Quartz (other than natural sands); quartzite, whether or not roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape.	2506	Primary products	Raw Materials	BELOW	2676436.182	0.8198372005	4
Granite, porphyry, basalt, sandstone and other monumental or building stone, whether or not roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape.	2516	Primary products	Raw Materials	BELOW	2510507.742	0.8258698877	4
Gypsum; anhydrite; plasters (consisting of calcined gypsum or calcium sulphate) whether or not coloured, with or without small quantities of accelerators or retarders.	2520	Primary products	Raw Materials	ABOVE	7162805.29	0.8210213675	4
Niobium, tantalum, vanadium or zirconium ores and concentrates.	2615	Resource-based manufactures: other	Raw Materials	ABOVE	6955325.295	0.8183775238	4
Precious metal ores and concentrates.	2616	Resource-based manufactures: other	Raw Materials	ABOVE	7695054.86	0.8171680075	4
Slag, dross (other than granulated slag), scalings and other waste from the manufacture of iron or steel.	2619	Resource-based manufactures: other	Raw Materials	ABOVE	5464598.281	0.8270503314	4
Lignite, whether or not agglomerated, excluding jet.	2702	Resource-based manufactures: other	Raw Materials	BELOW	2890925.132	0.8179540244	4
Diphosphorus pentaoxide; phosphoric acid; polyphosphoric acids, whether or not chemically defined.	2809	Resource-based manufactures: other	Chemical	ABOVE	8535567.153	0.829571044	4
Artificial corundum, whether or not chemically defined; aluminium oxide; aluminium hydroxide.	2818	Resource-based manufactures: other	Chemical	ABOVE	6763284.654	0.822482333	4
Mineral or chemical fertilisers, phosphatic.	3103	Medium technology manufactures: process	Chemical	ABOVE	9086160.455	0.8146953684	4
Natural rubber, balata, gutta-percha, guayule, chicle and similar natural gums, in primary forms or in plates, sheets or strip.	4001	Resource-based manufactures: agro-based	Capital Intensive	BELOW	3104876.18	0.8223806851	4
Vulcanised rubber thread and cord.	4007	Resource-based manufactures: agro-based	Capital Intensive	BELOW	1538072.423	0.8279671175	4
Chamois (including combination chamois) leather; patent leather and p	4114	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2323584.293	0.8290867564	4
Composition leather with a basis of leather or leather fibre, in slabs, sheets or strip, whether or not in rolls; parings and other waste of leather or of composition leather, not suitable for the manufacture of leather articles; leather dust, powder and flour.	4115	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	1777519.806	0.8293889061	4
Wood charcoal (including shell or nut charcoal), whether or not agglomerated.	4402	Resource-based manufactures: agro-based	Forest Products	ABOVE	4370959.279	0.8151405524	4
Wood marquetry and inlaid wood; caskets and cases for jewellery or cutlery, and similar articles, of wood; statuettes and other ornaments, of	4420	Resource-based manufactures: agro-based	Forest Products	BELOW	1808151.655	0.8222444545	4

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
wood; wooden articles of furniture not falling in Chapter 94.							
Natural cork, raw or simply prepared; waste cork; crushed, granulated or ground cork.	4501	Resource-based manufactures: agro-based	Forest Products	ABOVE	5711466.16	0.8187670912	4
Plaits and similar products of plaiting materials, whether or not assembled into strips; plaiting materials, plaits and similar products of plaiting materials, bound together in parallel strands or woven, in sheet form, whether or not being finished articles (for example, mats, matting, screens).	4601	Resource-based manufactures: agro-based	Forest Products	BELOW	2214708.697	0.8180882785	4
Toilet or facial tissue stock, towel or napkin stock and similar paper of a kind used for household or sanitary purposes, cellulose wadding and webs of cellulose fibres, whether or not creped, crinkled, embossed, perforated, surface- coloured, surfacedecorated or printed, in rolls or sheets.	4803	Resource-based manufactures: agro-based	Forest Products	ABOVE	4111188.2	0.82871593	4
Registers, account books, note books, order books, receipt books, letter pads, memorandum pads, diaries and similar articles, exercise books, blotting- pads, binders (loose- leaf or other), folders, file covers, manifold business forms, interleaved carbon sets and other articles of stationery, of paper or paperboard; albums for samples or for collections and book covers, of paper or paperboard.	4820	Resource-based manufactures: agro-based	Forest Products	BELOW	2722745.743	0.8258975594	4
Silk waste (including cocoons unsuitable for reeling, yarn waste and garnetted stock).	5003	Primary Products	Cereals, etc.	ABOVE	4583325.423	0.8225191382	4
Waste of wool or of fine or coarse animal hair, including yarn waste but excluding garnetted stock.	5103	Low technology manufactures: textile, garment and footwear	Capital Intensive	ABOVE	5918342.127	0.8195858232	4
Yarn of wool or of fine animal hair, put up for retail sale.	5109	Low technology manufactures: textile, garment and footwear	Capital Intensive	ABOVE	6228674.513	0.8311086434	4
Yarn of other vegetable textile fibres; paper yarn.	5308	Resource-based manufactures: agro-based	Cereals, etc.	BELOW	1897377.296	0.8296968281	4
Woven fabrics of other vegetable textile fibres; woven fabrics of paper yarn.	5311	Resource-based manufactures: agro-based	Cereals, etc.	BELOW	1361483.362	0.8179041225	4
Articles of yarn, strip or the like of heading 54.04 or 54.05, twine, cordage, rope or cables, not elsewhere specified or included.	5609	Resource-based manufactures: agro-based	Capital Intensive	BELOW	2113884.978	0.828134894	4
Woven fabrics of metal thread and woven fabrics of metallised yarn of heading 56.05, of a kind used in apparel, as furnishing fabrics or for similar purposes, not elsewhere specified or included.	5809	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2186822.333	0.8308026241	4
Knitted or crocheted fabrics of a width exceeding 30 cm, containing by weight 5 % or more of elastomeric yarn or rubber thread, other than those of heading 60.01.	6004	Low technology manufactures: textile, garment and footwear		BELOW	1277537.512	0.8253703084	4

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Handkerchiefs.	6213	Low technology manufactures: textile, garment and footwear		BELOW	2014270.208	0.8276678335	4
Ties, bow ties and cravats.	6215	Low technology manufactures: textile, garment and footwear		BELOW	2179842.516	0.823497606	4
Waterproof footwear with outer soles and uppers of rubber or of plastics, the uppers of which are neither fixed to the sole nor assembled by stitching, riveting, nailing, screwing, plugging or similar processes.	6401	Low technology manufactures: textile, garment and footwear	Capital Intensive	ABOVE	4037444.375	0.829418791	4
Parts of footwear (including uppers whether or not attached to soles other than outer soles); removable in-soles, heel cushions and similar articles; gaiters, leggings and similar articles, and parts thereof.	6406	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	3524894.538	0.8267624894	4
Hat- forms, hat bodies and hoods of felt, neither blocked to shape nor with made brims; plateaux and manchons (including slit manchons), of felt	6501	Low technology manufactures: textile, garment and footwear	Capital Intensive	ABOVE	7402724.547	0.827362683	4
Hats and other headgear, plaited or made by assembling strips of any material, whether or not lined or trimmed.	6504	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2693191.2	0.8302395605	4
Human hair, dressed, thinned, bleached or otherwise worked; wool or other animal hair or other textile materials, prepared for use in making wigs or the like.	6703	Low technology manufactures: other products	Labor Intensive	BELOW	2215674.163	0.8262074261	4
Ceramic flags and paving, hearth or wall tiles; ceramic mosaic cubes and the like, whether or not on a backing; finishing ceramics.	6907	Low technology manufactures: other products	Labor Intensive	BELOW	2147837.701	0.8147821857	4
Other bars and rods of iron or non-alloy steel, not further worked than forged, hotrolled, hot- drawn or hot-extruded, but including those twisted after rolling.	7214	Low technology manufactures: other products	Capital Intensive	ABOVE	5142749.57	0.8244793513	4
Barbed wire of iron or steel; twisted hoop or single flat wire, barbed or not, and loosely twisted double wire, of a kind used for fencing, of iron or steel.	7313	Medium technology manufactures: process	Machinery	ABOVE	4848417.151	0.8211020748	4
Fishing vessels; factory ships and other vessels for processing or preserving fishery products	8902	Medium technology manufactures: engineering	Machinery	ABOVE	11695925.27	0.8307750668	4
Musical boxes, fairground organs, mechanical street organs, mechanical singing birds, musical saws and other musical instruments not falling within any other heading of this Chapter; decoy calls of all kinds; whistles, call horns and other mouth- blown sound signalling instruments.	9208	Low technology manufactures: other products	Labor Intensive	BELOW	1318002.818	0.8280137332	4
Pianos, including automatic pianos; harpsichords and other keyboard stringed instruments.	9307	Unclassified Products	-	BELOW	1496653.108	0.8246440849	4
Festive, carnival or other entertainment articles, including conjuring tricks and novelty jokes.	9505	Low technology manufactures: other products	Labor Intensive	BELOW	538235.6281	0.8189246842	4

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Travel sets for personal toilet, sewing or shoe or clothes cleaning.	9605	High technology manufactures: electronic and electrical	Machinery	BELOW	1616198.352	0.8178875677	4
Live fish.	301	Primary products	Animal Products	ABOVE	7687568.885	0.8456339298	5
Edible products of animal origin, not elsewhere specified or included.	410	Primary Products	Animal Products	BELOW	2732672.282	0.835152307	5
Ambergris, castoreum, civet and musk; cantharides; bile, whether or not dried; glands and other animal products used in the preparation of pharmaceutical products, fresh, chilled, frozen or otherwise provisionally preserved.	510	Primary Products	Animal Products	ABOVE	6500654.101	0.8431646874	5
Other live plants (including their roots), cuttings and slips; mushroom spawn.	602	Primary Products	Animal Products	BELOW	3379251.408	0.8339306592	5
Foliage, branches and other parts of plants, without flowers or flower buds, and grasses, mosses and lichens, being goods of a kind suitable for bouquets or for ornamental purposes, fresh, dried, dyed, bleached, impregnated or otherwise prepared.	604	Primary Products	Animal Products	ABOVE	4806652.957	0.8331036623	5
Carrots, turnips, salad beetroot, salsify, celeriac, radishes and similar edible roots, fresh or chilled.	706	Primary products	Tropical Agriculture	BELOW	3546511.259	0.8374858678	5
Apples, pears and quinces, fresh.	808	Primary products	Tropical Agriculture	ABOVE	5269243.476	0.8474197467	5
Coffee, whether or not roasted or decaffeinated; coffee husks and skins; coffee substitutes containing coffee in any proportion.	901	Primary products	Tropical Agriculture	ABOVE	6453444.741	0.8323383075	5
Flours and meals of oil seeds or oleaginous fruits, other than those of mustard.	1208	Primary Products	Cereals, etc.	BELOW	2679161.569	0.8477896629	5
Fats and oils and their fractions, of fish or marine mammals, whether or not refined, but not chemically modified.	1504	Resource-based manufactures: other	Cereals, etc.	ABOVE	16880964.6	0.8349757284	5
Sunflower- seed, safflower or cottonseed oil and fractions thereof, whether or not refined, but not chemically modified.	1512	Resource-based manufactures: other	Cereals, etc.	ABOVE	5733709.174	0.8379171302	5
Coconut (copra), palm kernel or babassu oil and fractions thereof, whether or not refined, but not chemically modified.	1513	Resource-based manufactures: other	Cereals, etc.	ABOVE	6067704.838	0.8321397848	5
Other fixed vegetable fats and oils (including jojoba oil) and their fractions, whether or not refined, but not chemically modified.	1515	Resource-based manufactures: other	Cereals, etc.	BELOW	3758478.087	0.8419418995	5
Margarine; edible mixtures or preparations of animal or vegetable fats or oils or of fractions of different fats or oils of this Chapter, other than edible fats or oils or their fractions of heading 15.16.	1517	Resource-based manufactures: other	Cereals, etc.	ABOVE	5685515.184	0.8340364119	5
Degras; residues resulting from the treatment of fatty substances or animal or vegetable waxes	1522	Resource-based manufactures: other	Cereals, etc.	ABOVE	11002118.71	0.8467570438	5

Names	Codes Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Cocoa beans, whole or broken, raw or roasted.	1801 Primary products	Tropical Agriculture	ABOVE	38235683.42	0.8330511088	5
Prepared foods obtained by the swelling or roasting of cereals or cereal products (for example, corn flakes). cereals (other than maize (corn)) in grain form or in the form of flakes or other worked grains (except flour, groats and meal), pre-cooked or otherwise prepared, not elsewhere specified or included.	1904 Primary products	Tropical Agriculture	ABOVE	4423901.662	0.8461497657	5
Vegetables, fruit, nuts, fruit- peel and other parts of plants, preserved by sugar (drained, glacé or crystallised).	2006 Primary products	Tropical Agriculture	BELOW	3827797.83	0.8366009167	5
Wine of fresh grapes, including fortified wines; grape must other than that of heading 20.09.	2204 Resource-based manufactures: agro-based	Tropical Agriculture	ABOVE	6253623.263	0.8357103749	5
Undenatured ethyl alcohol of an alcoholic strength by volume of less than 80 % vol; spirits, liqueurs and other spirituous beverages.	2208 Resource-based manufactures: agro-based	Tropical Agriculture	ABOVE	15058043.04	0.8470340486	5
Sulphur of all kinds, other than sublimed sulphur, precipitated sulphur and colloidal sulphur.	2503 Primary products	Raw Materials	ABOVE	7896475.833	0.8451596257	5
Natural graphite.	2504 Primary products	Raw Materials	BELOW	1817086.296	0.8434305172	5
Pumice stone; emery; natural corundum, natural garnet and other natural abrasives, whether or not heat-treated.	2513 Primary products	Raw Materials	ABOVE	4801771.163	0.83704242	5
Natural borates and concentrates thereof (whether or not calcined), but not including borates separated from natural brine; natural boric acid containing not more than 85 % of H3BO3 calculated on the dry weight.	2528 Primary products	Raw Materials	ABOVE	6311835.28	0.8354038129	5
Lead ores and concentrates	2607 Resource-based manufactures: other	Raw Materials	ABOVE	6098136.008	0.8334919616	5
Tin ores and concentrates.	2609 Resource-based manufactures: other	Raw Materials	ABOVE	8811415.631	0.8470455171	5
Tungsten ores and concentrates.	2611 Resource-based manufactures: other	Raw Materials	ABOVE	17642687.79	0.8471727124	5
Coal; briquettes, ovoids and similar solid fuels manufactured from coal.	2701 Resource-based manufactures: other	Raw Materials	BELOW	3240127.665	0.8349859673	5
Petroleum gases and other gaseous hydrocarbons.	2711 Resource-based manufactures: other	Raw Materials	ABOVE	8713041.807	0.8448350859	5
Sulphuric acid; oleum	2807 Resource-based manufactures: other	Chemical	BELOW	2941534.009	0.845952598	5
Ammonia, anhydrous or in aqueous solution	2814 Resource-based manufactures: other	Chemical	ABOVE	15143049.98	0.8468574314	5
Hypochlorites; commercial calcium hypochlorite; chlorites; hypobromites.	2828 Resource-based manufactures: other	Chemical	ABOVE	6431361.792	0.8434225087	5
Chlorates and perchlorates; bromates and perbromates; iodates and periodates.	2829 Resource-based manufactures: other	Chemical	ABOVE	5635076.257	0.8397261933	5
Dithionites and sulphonylates	2831 Resource-based manufactures: other	Chemical	BELOW	920797.851	0.8410098135	5
Sulphites; thiosulphates.	2832 Resource-based manufactures: other	Chemical	BELOW	1478475.837	0.8473063205	5

<b>Names</b>	<b>Codes</b>	<b>Lall Classification</b>	<b>Leamer's name</b>	<b>Prody above or below Pak Ave</b>	<b>Prody</b>	<b>Distance</b>	<b>Groups</b>
Sulphates; alums; peroxosulphates (persulphates).	2833	Resource-based manufactures: other	Chemical	BELOW	2013957.74	0.8321054202	5
Other organic compounds.	2942	Resource-based manufactures: other	Chemical	BELOW	1535473.219	0.847944185	5
Mineral or chemical fertilisers, nitrogenous.	3102	Medium technology manufactures: process	Chemical	ABOVE	8007243.52	0.8481858745	5
Mineral or chemical fertilisers containing two or three of the fertilising elements nitrogen, phosphorus and potassium; other fertilisers; goods of this Chapter in tablets or similar forms or in packages of a gross weight not exceeding 10 kg.	3105	Medium technology manufactures: process	Chemical	ABOVE	4095830.498	0.8390718456	5
Tanning extracts of vegetable origin; tannins and their salts, ethers, esters and other derivatives.	3201	Medium technology manufactures: process	Chemical	BELOW	3471523.663	0.8341485596	5
Synthetic organic tanning substances; inorganic tanning substances; tanning preparations, whether or not containing natural tanning substances; enzymatic preparations for pre-tanning.	3202	Medium technology manufactures: process	Chemical	BELOW	1852943.769	0.8476415524	5
Prepared driers.	3211	Medium technology manufactures: process	Chemical	BELOW	2736937.057	0.8444412338	5
Artists', students' or signboard painters' colours, modifying tints, amusement colours and the like, in tablets, tubes, jars, bottles, pans or in similar forms or packings.	3213	Medium technology manufactures: process	Chemical	BELOW	2372279.71	0.8432269843	5
Prepared explosives, other than propellant powders	3602	Medium technology manufactures: process	Chemical	ABOVE	4737633.142	0.8401937928	5
Gum, wood or sulphate turpentine and other terpenic oils produced by the distillation or other treatment of coniferous woods; crude dipentene; sulphite turpentine and other crude para-cymene; pine oil containing alpha-terpineol as the main constituent	3805	Medium technology manufactures: process	Chemical	BELOW	3440797.312	0.8331968751	5
Industrial monocarboxylic fatty acids; acid oils from refining; industrial fatty alcohols.	3823	Medium technology manufactures: process	Chemical	BELOW	1967280.209	0.8450181226	5
Raw skins of sheep or lambs (fresh, or salted, dried, limed, pickled or otherwise preserved, but not tanned, parchment-dressed or further prepared), whether or not with wool on or split, other than those excluded by Note 1 (c) to this Chapter.	4102	Low technology manufactures: textile, garment and footwear	Capital Intensive	ABOVE	6649977.604	0.8342135836	5
Other raw hides and skins (fresh, or salted, dried, limed, pickled or otherwise preserved, but not tanned, parchment-dressed or further prepared), whether or not dehaired or split, other than those excluded by Note 1 (b) or 1 (c) to this Chapter.	4103	Low technology manufactures: textile, garment and footwear	Capital Intensive	ABOVE	5238490.012	0.843390714	5
Tanned or dressed furskins (including heads, tails, paws and other pieces or cuttings), unassembled, or assembled (without the addition of other materials) other than those of heading 43.03.	4302	Primary products	Animal Products	ABOVE	4039703.086	0.8348927158	5

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Articles of apparel, clothing accessories and other articles of furskin.	4303	Primary products	Animal Products	BELOW	1322596.162	0.8366640134	5
Wood wool; wood flour.	4405	Resource-based manufactures: agro-based	Forest Products	BELOW	1761515.893	0.8389723792	5
Tools, tool bodies, tool handles, broom or brush bodies and handles, of wood; boot or shoe lasts and trees, of wood.	4417	Resource-based manufactures: agro-based	Forest Products	BELOW	2429590.124	0.8478481427	5
Tableware and kitchenware, of wood	4419	Resource-based manufactures: agro-based	Forest Products	BELOW	1430134.848	0.834065556	5
Other articles of wood.	4421	Resource-based manufactures: agro-based	Forest Products	BELOW	3021984.312	0.8419928592	5
Natural cork, debacked or roughly squared, or in rectangular (including square) blocks, plates, sheets or strip (including sharpened blanks for corks or stoppers)	4502	Resource-based manufactures: agro-based	Forest Products	BELOW	2604385.763	0.842342003	5
Articles of natural cork.	4503	Resource-based manufactures: agro-based	Forest Products	ABOVE	8684290.434	0.8354125301	5
Agglomerated cork (with or without a binding substance) and articles of agglomerated cork	4504	Resource-based manufactures: agro-based	Forest Products	ABOVE	7069325.918	0.8413063246	5
Raw silk (not thrown).	5002	Primary Products	Cereals,etc.	BELOW	1733018.484	0.8362414797	5
Silk yarn (other than yarn spun from silk waste) not put up for retail sale.	5004	Primary Products	Cereals,etc.	BELOW	3323109.613	0.8384796202	5
Yarn of carded wool, not put up for retail sale	5106	Low technology manufactures: textile, garment and footwear	Capital Intensive	ABOVE	15652452.04	0.8482544867	5
Cotton yarn (other than sewing thread) put up for retail sale.	5207	Low technology manufactures: textile, garment and footwear		ABOVE	5363145.612	0.8359914714	5
Flax yarn.	5306	Resource-based manufactures: agro-based	Cereals, etc.	BELOW	2944254.662	0.8464601996	5
Sewing thread of man- made filaments, whether or not put up for retail sale.	5401	Medium technology manufactures: process	Chemical	BELOW	3508100.648	0.8448837383	5
Man- made filament yarn (other than sewing thread), put up for retail sale.	5406	Medium technology manufactures: process	Chemical	BELOW	1142544.209	0.846574187	5
Artificial staple fibres, not carded, combed or otherwise processed for spinning.	5504	Medium technology manufactures: process	Cereals, etc.	BELOW	1524776.784	0.8335069263	5
Waste (including noils, yarn waste and garnetted stock) of man- made fibres.	5505	Medium technology manufactures: process	Cereals, etc.	BELOW	3723556.823	0.8448124412	5
Metallised yarn, whether or not gimped, being textile yarn, or strip or the like of heading 54.04 or 54.05, combined with metal in the form of thread, strip or powder or covered with metal.	5605	Resource-based manufactures: agro-based	Capital Intensive	BELOW	2664420.084	0.8320468667	5
Carpets and other textile floor coverings, tufted, whether or not made up.	5703	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2288742.443	0.8466345799	5
Hand- woven tapestries of the types Gobelins, Flanders, Aubusson, Beauvais and the like, and needle-	5805	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2365420.01	0.846615814	5

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
worked tapestries (for example, petit point, cross stitch) whether or not made up.							
Braids in the piece; ornamental trimmings in the piece, without embroidery, other than knitted or crocheted; tassels, pompons and similar articles.	5808	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2052228.512	0.8384806674	5
Skins and other parts of birds with their feathers or down, feathers, parts of feathers, down and articles thereof (other than goods of heading 05.05 and worked quills and scapes).	6701	Low technology manufactures: other products	Labor Intensive	BELOW	1513714.044	0.8384655453	5
Artificial flowers, foliage and fruit and parts thereof; articles made of artificial flowers, foliage or fruit.	6702	Low technology manufactures: other products	Labor Intensive	BELOW	338977.2362	0.8466453517	5
Setts, curbstones and flagstones, of natural stone (except slate)	6801	Resource-based manufactures: other	Labor Intensive	BELOW	3153077.05	0.8340245775	5
Worked slate and articles of slate or of agglomerated slate	6803	Resource-based manufactures: other	Labor Intensive	BELOW	1974507.676	0.8382805516	5
Statuettes and other ornamental ceramic articles	6913	Low technology manufactures: other products	Labor Intensive	BELOW	1427853.395	0.8387294684	5
Synthetic or reconstructed precious or semi-precious stones, whether or not worked or graded but not strung, mounted or set; ungraded synthetic or reconstructed precious or semi-precious stones, temporarily strung for convenience of transport.	7104	Primary Products	Raw Materials	BELOW	2394815.745	0.8472134038	5
Gold (including gold plated with platinum) unwrought or in semi-manufactured forms, or in powder form.	7108	Primary Products	Raw Materials	ABOVE	5006058.72	0.8331107441	5
Imitation jewellery.	7117	Primary Products	Raw Materials	BELOW	2807235.856	0.8473021519	5
Pig iron and, spiegeleisen in pigs, blocks or other primary form.	7201	Low technology manufactures: other products	Capital Intensive	BELOW	2390496.446	0.8422369495	5
Ferro- alloys.	7202	Low technology manufactures: other products	Capital Intensive	ABOVE	6211830.4	0.8379630283	5
Semi- finished products of iron or non- alloy steel.	7207	Low technology manufactures: other products	Capital Intensive	BELOW	2665403.545	0.8428823242	5
Wire of iron or non- alloy steel.	7217	Low technology manufactures: other products	Capital Intensive	ABOVE	4072807.444	0.8454148195	5
Tubes, pipes and hollow profiles, of cast iron.	7303	Medium technology manufactures: process	Machinery	BELOW	2771767.149	0.8482200697	5
Stranded wire, ropes, cables, plaited bands, slings and the like, of iron or steel, not electrically insulated.	7312	Medium technology manufactures: process	Machinery	BELOW	3217728.633	0.8464442437	5
Nails, tacks, drawing pins, corrugated nails, staples (other than those of heading 83.05) and similar articles, of iron or steel, whether or not with heads of other material, but excluding such articles with heads of copper.	7317	Medium technology manufactures: process	Machinery	BELOW	3646461.775	0.8332185774	5
Copper mattes; cement copper (precipitated copper).	7401	Resource-based manufactures: other	Raw Materials	ABOVE	8852248.743	0.8334647196	5

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Stranded wire, cables, plaited bands and the like, of copper, not electrically insulated.	7413	Resource-based manufactures: other	Raw Materials	BELOW	2642631.814	0.8474604921	5
Nickel mattes, nickel oxide sinters and other intermediate products of nickel metallurgy.	7501	Resource-based manufactures: other	Raw Materials	ABOVE	4071115.21	0.8426513306	5
Aluminium bars, rods and profiles.	7604	Low technology manufactures: other products	Capital Intensive	ABOVE	4855874.573	0.8457841594	5
Stranded wire, cables, plaited bands and the like, of aluminium, not electrically insulated.	7614	Low technology manufactures: other products	Capital Intensive	BELOW	1883167.448	0.8357131859	5
Antimony and articles thereof, including waste and scrap.	8110	Resource-based manufactures: other	Raw Materials	ABOVE	17253836.01	0.8435857791	5
Fittings for loose- leaf binders or files, letter clips, letter corners, paper clips, indexing tags and similar office articles, of base metal; staples in strips (for example, for offices, upholstery, packaging), of base metal.	8305	High technology manufactures: electronic and electrical	Machinery	BELOW	2342557.235	0.846858324	5
Calculating machines and pocket-size data recording, reproducing and displaying machines with calculating functions; accounting machines, postage- franking machines, ticket-issuing machines and similar machines, incorporating a calculating device; cash registers.	8470	High technology manufactures: electronic and electrical	Machinery	BELOW	1883395.705	0.8430820638	5
Portable electric lamps designed to function by their own source of energy (for example, dry batteries, accumulators, magnetos), other than lighting equipment of heading 85.12.	8513	Medium technology manufactures: engineering	Machinery	BELOW	931377.6096	0.8423072507	5
Bicycles and other cycles (including delivery tricycles), not motorised.	8712	Medium technology manufactures: automotive	Machinery	BELOW	2410623.94	0.8327646337	5
Other vessels, including warships and lifeboats other than rowing boats.	8906	Medium technology manufactures: engineering	Machinery	ABOVE	5654776.918	0.8466157152	5
Seats (other than those of heading 94.02), whether or not convertible into beds, and parts thereof.	9401	Low technology manufactures: other products	Labor Intensive	BELOW	2658676.845	0.8432975524	5
Fishing rods, fish- hooks and other line fishing tackle; fish landing nets, butterfly nets and similar nets; decoy "birds" (other than those of heading 92.08 or 97.05) and similar hunting or shooting requisites.	9507	Low technology manufactures: other products	Labor Intensive	BELOW	2680512.71	0.8426236286	5
Worked ivory, bone, tortoise- shell, horn, antlers, coral, mother- of- pearl and other animal carving material, and articles of these materials (including articles obtained by moulding).	9601	High technology manufactures: electronic and electrical	Machinery	BELOW	1777229.139	0.8437923517	5
Buttons, press- fasteners, snap- fasteners and press- studs, button moulds and other parts of these articles; button blanks.	9606	High technology manufactures: electronic and electrical	Machinery	BELOW	1644444.208	0.8356517752	5
Slide fasteners and parts thereof.	9607	High technology manufactures: electronic and electrical	Machinery	BELOW	1830317.464	0.8465729595	5

<b>Names</b>	<b>Codes</b>	<b>Lall Classification</b>	<b>Leamer's name</b>	<b>Prody above or below Pak Ave</b>	<b>Prody</b>	<b>Distance</b>	<b>Groups</b>
Tailors' dummies and other lay figures; automata and other animated displays used for shop window dressing.	9618	High technology manufactures: electronic and electrical	Machinery	BELOW	1792931.029	0.8395335943	5
Live bovine animals.	102	Primary products	Animal Products	ABOVE	8506208.84	0.8536097449	6
Meat of horses, asses, mules or hinnies, fresh, chilled or frozen.	205	Primary products	Animal Products	ABOVE	10766859.17	0.853607861	6
Milk and cream, concentrated or containing added sugar or other sweetening matter	402	Primary Products	Animal Products	ABOVE	11323178.35	0.8613233338	6
Cheese and curd	406	Primary Products	Animal Products	ABOVE	8701795.801	0.8571219171	6
Birds' eggs, not in shell, and egg yolks, fresh, dried, cooked by steaming or by boiling in water, moulded, frozen or otherwise preserved, whether or not containing added sugar or other sweetening matter	408	Primary Products	Animal Products	ABOVE	4126392.399	0.8542162554	6
Pigs', hogs' or boars' bristles and hair; badger hair and other brush making hair; waste of such bristles or hair.	502	Primary Products	Animal Products	BELOW	307237.7868	0.8524457016	6
Animal products not elsewhere specified or included; dead animals of Chapter 1 or 3, unfit for human consumption	511	Primary Products	Animal Products	ABOVE	6280056.943	0.8637658333	6
Bulbs, tubers, tuberous roots, corms, crowns and rhizomes, dormant, in growth or in flower; chicory plants and roots other than roots of heading 12.12.	601	Primary Products	Animal Products	BELOW	2903227.43	0.8582975373	6
Lettuce ( <i>Lactuca sativa</i> ) and chicory ( <i>Cichorium spp.</i> ), fresh or chilled.	705	Primary products	Tropical Agriculture	BELOW	2222399.065	0.8534055685	6
Wheat and meslin	1001	Primary Products	Cereals, etc.	ABOVE	4772188.509	0.8637657242	6
Buckwheat, millet and canary seeds; other cereals.	1008	Primary Products	Cereals, etc.	ABOVE	5223170.341	0.8531177386	6
Soya beans, whether or not broken.	1201	Primary Products	Cereals, etc.	BELOW	3251216.716	0.851569155	6
Linseed, whether or not broken	1204	Primary Products	Cereals, etc.	BELOW	2543174.62	0.8610297171	6
Sunflower seeds, whether or not broken	1206	Primary Products	Cereals, etc.	ABOVE	10836364.94	0.8519865616	6
Swedes, mangolds, fodder roots, hay, lucerne (alfalfa), clover, sainfoin, forage kale, lupines, vetches and similar forage products, whether or not in the form of pellets.	1214	Primary Products	Cereals, etc.	BELOW	2211891.92	0.849780512	6
Fats of bovine animals, sheep or goats, other than those of heading 15.03.	1502	Resource-based manufactures: other	Cereals, etc.	ABOVE	7054125.942	0.8528356551	6
Animal or vegetable fats and oils and their fractions, boiled, oxidised, dehydrated, sulphurised, blown, polymerised by heat in vacuum or in inert gas or otherwise chemically modified, excluding those of heading 15.16; inedible mixtures or preparations of animal or vegetable fats or oils or of fractions of different fats or oils of this Chapter, not elsewhere specified or included.	1518	Resource-based manufactures: other	Cereals, etc.	BELOW	2680353.615	0.859250212	6

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Glycerol, crude; glycerol waters and glycerol lyes.	1520	Resource-based manufactures: other	Cereals, etc.	BELOW	2433327.112	0.8493416019	6
Vegetable waxes (other than triglycerides), beeswax, other insect waxes and spermaceti, whether or not refined or coloured.	1521	Resource-based manufactures: other	Cereals, etc.	BELOW	2021921.907	0.8502651806	6
Sausages and similar products, of meat, meat offal or blood; food preparations based on these products.	1601	Resource-based manufactures: agro-based	Animal Products	ABOVE	5208907.605	0.8652429038	6
Cocoa shells, husks, skins and other cocoa waste.	1802	Primary products	Tropical Agriculture	BELOW	3382545.832	0.8653079843	6
Cocoa powder, not containing added sugar or other sweetening matter.	1805	Primary products	Tropical Agriculture	BELOW	2888367.484	0.8547027401	6
Mushrooms and truffles, prepared or preserved otherwise than by vinegar or acetic acid.	2003	Primary products	Tropical Agriculture	BELOW	1225857.918	0.8588334186	6
Extracts, essences and concentrates, of coffee, tea or mate and preparations with a basis of these products or with a basis of coffee, tea or mate; roasted chicory and other roasted coffee substitutes, and extracts, essences and concentrates thereof.	2101	Primary Products	Tropical Agriculture	BELOW	3361792.031	0.8524741974	6
Yeasts (active or inactive); other single-cell micro-organisms, dead (but not including vaccines of heading 30.02); prepared baking powders.	2102	Primary Products	Tropical Agriculture	ABOVE	5521974.069	0.8491241844	6
Soups and broths and preparations therefor; homogenised composite food preparations.	2104	Primary Products	Tropical Agriculture	ABOVE	4985609.937	0.8566695598	6
Ice cream and other edible ice, whether or not containing cocoa	2105	Primary Products	Tropical Agriculture	ABOVE	4853945.343	0.8527249402	6
Waters, including natural or artificial mineral waters and aerated waters, not containing added sugar or other sweetening matter nor flavoured; ice and snow.	2201	Resource-based manufactures: agro-based	Tropical Agriculture	ABOVE	17064595.06	0.8565453386	6
Beer made from malt.	2203	Resource-based manufactures: agro-based	Tropical Agriculture	ABOVE	6734472.23	0.8532227073	6
Vermouth and other wine of fresh grapes flavoured with plants or aromatic substances	2205	Resource-based manufactures: agro-based	Tropical Agriculture	ABOVE	10394205.38	0.8543500087	6
Wine lees; argol.	2307	Resource-based manufactures: agro-based	Tropical Agriculture	BELOW	2394189.498	0.854212884	6
Kaolin and other kaolinic clays, whether or not calcined.	2507	Primary products	Raw Materials	BELOW	2185703.983	0.8589549446	6
Chalk	2509	Primary products	Raw Materials	BELOW	3126097.448	0.8565383322	6
Pebbles, gravel, broken or crushed stone, of a kind commonly used for concrete aggregates, for road metalling or for railway or other ballast, shingle and flint, whether or not heat-treated; macadam slag, dross or similar industrial waste, whether or not incorporating the materials cited in the first part of the heading; tarred macadam; granules,	2517	Primary products	Raw Materials	ABOVE	7781037.189	0.8590428506	6

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
chippings and powder, of stones of heading 25.15 or 25.16, whether or not heat-treated							
Limestone flux; limestone and other calcareous stone, of a kind used for the manufacture of lime or cement.	2521	Primary products	Raw Materials	ABOVE	4792132.117	0.849737903	6
Quicklime, slaked lime and hydraulic lime, other than calcium oxide and hydroxide of heading 28.25.	2522	Primary products	Raw Materials	ABOVE	6053926.478	0.8512786737	6
Mica, including splittings; mica waste.	2525	Primary products	Raw Materials	BELOW	1844928.352	0.8530091118	6
Mineral substances not elsewhere specified or included.	2530	Primary products	Raw Materials	BELOW	3217490.916	0.85766369	6
Nickel ores and concentrates.	2604	Resource-based manufactures: other	Raw Materials	ABOVE	5005667.456	0.8625875364	6
Uranium or thorium ores and concentrates.	2612	Resource-based manufactures: other	Raw Materials	ABOVE	47903544.98	0.8561424523	6
Granulated slag (slag sand) from the manufacture of iron or steel.	2618	Resource-based manufactures: other	Raw Materials	ABOVE	4134450.072	0.8550070971	6
Other slag and ash, including seaweed ash (kelp); ash and residues from the incineration of municipal waste.	2621	Resource-based manufactures: other	Raw Materials	BELOW	1754344.271	0.8645543374	6
Tar distilled from coal, from lignite or from peat, and other mineral tars, whether or not dehydrated or partially distilled, including reconstituted tars.	2706	Resource-based manufactures: other	Raw Materials	ABOVE	3916338.639	0.8632830346	6
Petroleum jelly; paraffin wax, microcrystalline petroleum wax, slack wax, ozokerite, lignite wax, peat wax, other mineral waxes, and similar products obtained by synthesis or by other processes, whether or not coloured.	2712	Resource-based manufactures: other	Raw Materials	BELOW	2064588.462	0.8632004698	6
Electrical energy. (optional heading)	2716	Resource-based manufactures: other	Raw Materials	ABOVE	8619546.47	0.8612156358	6
Fluorine, chlorine, bromine and iodine.	2801	Resource-based manufactures: other	Chemical	ABOVE	6200604.181	0.849558488	6
Sulphur, sublimed or precipitated; colloidal sulphur.	2802	Resource-based manufactures: other	Chemical	BELOW	2395768.221	0.8489552817	6
Nitric acid; sulphonitic acids.	2808	Resource-based manufactures: other	Chemical	BELOW	2931818.949	0.8642703724	6
Oxides of boron; boric acids.	2810	Resource-based manufactures: other	Chemical	BELOW	3213107.17	0.8601433893	6
Lead oxides; red lead and orange lead.	2824	Resource-based manufactures: other	Chemical	BELOW	2171651.837	0.8559377537	6
Sulphides; polysulphides, whether or not chemically defined.	2830	Resource-based manufactures: other	Chemical	ABOVE	4682477.138	0.8626278202	6
Nitrites; nitrates.	2834	Resource-based manufactures: other	Chemical	BELOW	3790946.242	0.8569882526	6
Phosphinates (hypophosphites), phosphonates (phosphites) and phosphates; polyphosphates, whether or not chemically defined.	2835	Resource-based manufactures: other	Chemical	BELOW	3219073.369	0.8620597434	6
Sulphonated, nitrated or nitrosated derivatives of hydrocarbons, whether or not halogenated.	2904	Resource-based manufactures: other	Chemical	BELOW	1041043.885	0.85458945	6
Carboxylic acids with additional oxygen function and their anhydrides, halides, peroxides and	2918	Resource-based manufactures: other	Chemical	BELOW	1785193.063	0.8635410209	6

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives.							
Organic derivatives of hydrazine or of hydroxylamine.	2928	Resource-based manufactures: other	Chemical	BELOW	2330037.81	0.8647498674	6
Glycosides, natural or reproduced by synthesis, and their salts, ethers, esters and other derivatives.	2938	Resource-based manufactures: other	Chemical	BELOW	1419811.38	0.852634629	6
Antibiotics	2941	Resource-based manufactures: other	Chemical	BELOW	2214183.204	0.859213118	6
Animal or vegetable fertilisers, whether or not mixed together or chemically treated; fertilisers produced by the mixing or chemical treatment of animal or vegetable products.	3101	Medium technology manufactures: process	Chemical	BELOW	3394813.451	0.8565944182	6
Mineral or chemical fertilisers, potassic.	3104	Medium technology manufactures: process	Chemical	BELOW	3460165.299	0.8541230537	6
Colour lakes; preparations as specified in Note 3 to this Chapter based on colour lakes.	3205	Medium technology manufactures: process	Chemical	BELOW	2662122.421	0.8570980716	6
Prepared pigments, prepared opacifiers and prepared colours, vitrifiable enamels and glazes, engobes (slips), liquid lustres and similar preparations, of a kind used in the ceramic, enamelling or glass industry; glass frit and other glass, in the form of powder, granules or flakes.	3207	Medium technology manufactures: process	Chemical	BELOW	1744333.415	0.8557902531	6
Preparations for oral or dental hygiene, including denture fixative pastes and powders; yarn used to clean between the teeth (dental floss), in individual retail packages	3306	Medium technology manufactures: process	Chemical	ABOVE	4369322.996	0.8605418042	6
Safety fuses; detonating fuses; percussion or detonating caps; igniters; electric detonators	3603	Medium technology manufactures: process	Chemical	BELOW	3400024.522	0.853484529	6
Fireworks, signalling flares, rain rockets, fog signals and other pyrotechnic articles.	3604	Medium technology manufactures: process	Chemical	BELOW	2448508.688	0.8599668798	6
Ferro- cerium and other pyrophoric alloys in all forms; articles of combustible materials as specified in Note 2 to this Chapter	3606	Medium technology manufactures: process	Chemical	ABOVE	4316482.228	0.8598720328	6
Rosin and resin acids, and derivatives thereof; rosin spirit and rosin oils; run gums	3806	Medium technology manufactures: process	Chemical	ABOVE	3938676.51	0.8566292889	6
Monofilament of which any cross-sectional dimension exceeds 1 mm, rods, sticks and profile shapes, whether or not surfaceworked but not otherwise worked, of plastics.	3916	Medium technology manufactures: process	Chemical	BELOW	2840342.891	0.8587404658	6
Tubes, pipes and hoses, and fittings therefor (for example, joints, elbows, flanges), of plastics.	3917	Medium technology manufactures: process	Chemical	BELOW	3747601.378	0.8560492987	6
Baths, shower-baths, sinks, wash-basins, bidets, lavatory pans, seats and covers, flushing cisterns and similar sanitary ware, of plastics.	3922	Medium technology manufactures: process	Chemical	BELOW	3210547.523	0.855821565	6
Builders' ware of plastics, not elsewhere specified or included.	3925	Medium technology manufactures: process	Chemical	ABOVE	4112991.195	0.8611302622	6

<b>Names</b>	<b>Codes</b>	<b>Lall Classification</b>	<b>Leamer's name</b>	<b>Prody above or below Pak Ave</b>	<b>Prody</b>	<b>Distance</b>	<b>Groups</b>
Reclaimed rubber in primary forms or in plates, sheets or strip.	4003	Resource-based manufactures: agro-based	Capital Intensive	BELOW	2322853.524	0.8542719359	6
Retreaded or used pneumatic tyres of rubber; solid or cushion tyres, tyre treads and tyre flaps, of rubber	4012	Resource-based manufactures: agro-based	Capital Intensive	ABOVE	5989367.46	0.8611457884	6
Hygienic or pharmaceutical articles (including teats), of vulcanised rubber other than hard rubber, with or without fittings of hard rubber	4014	Resource-based manufactures: agro-based	Capital Intensive	BELOW	3164433.515	0.8600540586	6
Hard rubber (for example, ebonite) in all forms, including waste and scrap; articles of hard rubber.	4017	Resource-based manufactures: agro-based	Capital Intensive	BELOW	2585055.278	0.8530408809	6
Raw hides and skins of bovine (including buffalo) or equine animals (fresh, or salted, dried, limed, pickled or otherwise preserved, but not tanned, parchment- dressed or further prepared), whether or not dehaired or split	4101	Low technology manufactures: textile, garment and footwear	Capital Intensive	ABOVE	5873935.921	0.8606612955	6
Other articles of leather or of composition leather.	4205	Low technology manufactures: textile, garment and footwear	Capital Intensive	ABOVE	5553852.676	0.8571660301	6
Raw furskins (including heads,tails, paws and other pieces or cuttings, suitable for furriers' use), other than raw hides and skins of heading 41.01, 41.02 or 41.03.	4301	Primary products	Animal Products	ABOVE	10494118.86	0.8646183201	6
Artificial fur and articles thereof.	4304	Primary products	Animal Products	BELOW	1991850.928	0.8596258731	6
Fuel wood, in logs, in billets, in twigs, in faggots or in similar forms; wood in chips or particles; sawdust and wood waste and scrap, whether or not agglomerated in logs, briquettes, pellets or similar forms.	4401	Resource-based manufactures: agro-based	Forest Products	ABOVE	9959103.962	0.8614761156	6
Hoopwood; split poles; piles, pickets and stakes of wood, pointed but not sawn lengthwise; wooden sticks, roughly trimmed but not turned, bent or otherwise worked, suitable for the manufacture of walking- sticks, umbrellas, tool handles or the like;chipwood and the like.	4404	Resource-based manufactures: agro-based	Forest Products	ABOVE	14120534.29	0.8602389378	6
Sheets for veneering (including those obtained by slicing laminated wood), for plywood or for similar laminated wood and other wood, sawn lengthwise, sliced or peeled, whether or not planed, sanded, spliced or end- jointed, of a thickness not exceeding 6 mm.	4408	Resource-based manufactures: agro-based	Forest Products	ABOVE	4872182.071	0.8576895574	6
Wood (including strips and friezes for parquet flooring, not assembled) continuously shaped (tongued, grooved, rebated, chamfered, Vjointed, beaded, moulded, rounded or the like) along any of its edges, ends or faces, whether or not planed, sanded or end- jointed.	4409	Resource-based manufactures: agro-based	Forest Products	ABOVE	7193657.431	0.8597818434	6
Wooden frames for paintings, photographs, mirrors or similar objects	4414	Resource-based manufactures: agro-based	Forest Products	BELOW	2128959.935	0.8581865077	6

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Casks, barrels, vats, tubs and other coopers' products and parts thereof, of wood, including staves.	4416	Resource-based manufactures: agro-based	Forest Products	BELOW	3621832.128	0.8595294131	6
Builders' joinery and carpentry of wood, including cellular wood panels, assembled flooring panels, shingles and shakes	4418	Resource-based manufactures: agro-based	Forest Products	ABOVE	6574480.568	0.8595302889	6
Pulps of fibres derived from recovered (waste and scrap) paper or paperboard or of other fibrous cellulosic material.	4706	Resource-based manufactures: agro-based	Forest Products	BELOW	2195920.97	0.8598139011	6
Recovered (waste and scrap) paper or paperboard.	4707	Resource-based manufactures: agro-based	Forest Products	ABOVE	4619979.718	0.8590146946	6
Carbon paper, self- copy paper and other copying or transfer papers (including coated or impregnated paper for duplicator stencils or offset plates), whether or not printed, in rolls or sheets.	4809	Resource-based manufactures: agro-based	Forest Products	BELOW	1362864.898	0.8590146572	6
Envelopes, letter cards, plain postcards and correspondence cards, of paper or paperboard; boxes, pouches, wallets and writing compendiums, of paper or paperboard, containing an assortment of paper stationery.	4817	Resource-based manufactures: agro-based	Forest Products	BELOW	2871799.045	0.8511425191	6
Toilet paper and similar paper, cellulose wadding or webs of cellulose fibres, of a kind used for household or sanitary purposes, in rolls of a width not exceeding 36 cm, or cut to size or shape; handkerchiefs, cleansing tissues, towels, tablecloths, serviettes, bed sheets and similar household, sanitary or hospital articles, articles of apparel and clothing accessories, of paper pulp, paper, cellulose wadding or webs of cellulose fibres.	4818	Resource-based manufactures: agro-based	Forest Products	ABOVE	5598488.41	0.8532075635	6
Bobbins, spools, cops and similar supports of paper pulp, paper or paperboard (whether or not perforated or hardened).	4822	Resource-based manufactures: agro-based	Forest Products	ABOVE	6080562.556	0.8555793295	6
Other paper, paperboard, cellulose wadding and webs of cellulose fibres, cut to size or shape; other articles of paper pulp, paper, paperboard, cellulose wadding or webs of cellulose fibres.	4823	Resource-based manufactures: agro-based	Forest Products	BELOW	2629431.92	0.8503540906	6
Plans and drawings for architectural, engineering, industrial, commercial, topographical or similar purposes, being originals drawn by hand; hand-written texts; photographic reproductions on sensitised paper and carbon copies of the foregoing.	4906	Unclassified products	Labor Intensive	ABOVE	4959473.404	0.8587659053	6
Printed or illustrated postcards; printed cards bearing personal greetings, messages or announcements, whether or not illustrated, with or without envelopes or trimmings.	4909	Unclassified products	Labor Intensive	BELOW	1238240.932	0.8649259884	6
Yarn spun from silk waste, not put up for retail sale.	5005	Primary Products	Cereals,etc.	BELOW	562937.3564	0.8587113805	6

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Silk yarn and yarn spun from silk waste, put up for retail sale; silk-worm gut.	5006	Primary Products	Cereals, etc.	BELOW	2699037.682	0.8599942537	6
Woven fabrics of silk or of silk waste	5007	Primary Products	Cereals, etc.	BELOW	1394380.309	0.8573054359	6
Garnetted stock of wool or of fine or coarse animal hair.	5104	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	1689253.075	0.8592965017	6
Wool and fine or coarse animal hair, carded or combed (including combed wool in fragments).	5105	Low technology manufactures: textile, garment and footwear	Capital Intensive	ABOVE	5589985.029	0.8652810679	6
Yarn of combed wool, not put up for retail sale.	5107	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2908819.525	0.8641679775	6
Yarn of fine animal hair (carded or combed), not put up for retail sale.	5108	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	950529.1799	0.8507440376	6
Woven fabrics of combed wool or of combed fine animal hair.	5112	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2805065.986	0.8559570216	6
Woven fabrics of coarse animal hair or of horsehair.	5113	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2162043.713	0.8647722375	6
Flax, raw or processed but not spun; flax tow and waste (including yarn waste and garnetted stock).	5301	Resource-based manufactures: agro-based	Cereals, etc.	BELOW	3359349.946	0.8579982046	6
True hemp ( <i>Cannabis sativa</i> L.), raw or processed but not spun; tow and waste of true hemp (including yarn waste and garnetted stock).	5302	Resource-based manufactures: agro-based	Cereals, etc.	ABOVE	11831314.5	0.8610452535	6
Woven fabrics of flax.	5309	Resource-based manufactures: agro-based	Cereals, etc.	BELOW	2134601.752	0.8501553974	6
Woven fabrics of artificial filament yarn, including woven fabrics obtained from materials of heading 54.05.	5408	Medium technology manufactures: process	Chemical	BELOW	2318126.398	0.8488315696	6
Medium technology manufactures: process Chemical filament tow.	5501	Medium technology manufactures: process	Cereals, etc.	BELOW	2562548.362	0.8613724619	6
Synthetic staple fibres, carded, combed or otherwise processed for spinning.	5506	Medium technology manufactures: process	Cereals, etc.	ABOVE	5196010.135	0.8500164983	6
Rubber thread and cord, textile covered; textile yarn, and strip and the like of heading 54.04 or 54.05, impregnated, coated, covered or sheathed with rubber or plastics.	5604	Resource-based manufactures: agro-based	Capital Intensive	BELOW	1972079.603	0.8546493967	6
Gimped yarn, and strip and the like of heading 54.04 or 54.05, gimped (other than those of heading 56.05 and gimped horsehair yarn); chenille yarn (including flock chenille yarn); loop wale- yarn.	5606	Resource-based manufactures: agro-based	Capital Intensive	BELOW	3012007.59	0.8625196293	6
Quilted textile products in the piece, composed of one or more layers of textile materials assembled with padding by stitching or otherwise, other than embroidery of heading 58.10.	5811	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2823307.595	0.8505754529	6
Textile fabrics coated with gum or amylaceous substances, of a kind used for the outer covers of books or the like; tracing cloth; prepared	5901	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2010123.69	0.8509014968	6

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
painting canvas; buckram and similar stiffened textile fabrics of a kind used for hat foundations.							
Tyre cord fabric of high tenacity yarn of nylon or other polyamides, polyesters or viscose rayon	5902	Low technology manufactures: textile, garment and footwear	Capital Intensive	ABOVE	11573373.61	0.8522322558	6
Textile fabrics otherwise impregnated, coated or covered; painted canvas being theatrical scenery, studio back- cloths or the like.	5907	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	1872714.809	0.8630374192	6
Textile wicks, woven, plaited or knitted, for lamps, stoves, lighters, candles or the like; incandescent gas mantles and tubular knitted gas mantle fabric therefor, whether or not impregnated.	5908	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	1342474.704	0.8602354116	6
Knitted or crocheted fabrics of a width not exceeding 30 cm, containing by weight 5 % or more of elastomeric yarn or rubber thread, other than those of heading 60. 01.	6002	Low technology manufactures: textile, garment and footwear	Labor Intensive	BELOW	2087783.761	0.8489013359	6
Warp knit fabrics (including those made on galloon knitting machines), other than those of headings 60.01 to 60.04.	6005	Low technology manufactures: textile, garment and footwear	Labor Intensive	ABOVE	5304494.99	0.852242703	6
Sets consisting of woven fabric and yarn, whether or not with accessories, for making up into rugs, tapestries, embroidered table cloths or serviettes, or similar textile articles, put up in packings for retail sale.	6308	Low technology manufactures: textile, garment and footwear	Labor Intensive	ABOVE	5562164.297	0.8551850608	6
Head- bands, linings, covers, hat foundations, hat frames, peaks and chinstraps, for headgear.	6507	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	1551399.92	0.8575903302	6
Umbrellas and sun umbrellas (including walking- stick umbrellas, garden umbrellas and similar umbrellas).	6601	Low technology manufactures: other products	Labor Intensive	BELOW	1315473.656	0.8625316657	6
Walking- sticks, seat- sticks, whips, ridingcrops and the like.	6602	Low technology manufactures: other products	Labor Intensive	BELOW	1211540.121	0.8610162442	6
Parts, trimmings and accessories of articles of heading 66.01 or 66.02.	6603	Low technology manufactures: other products	Labor Intensive	BELOW	1871826.127	0.850283521	6
Articles of plaster or of compositions based on plaster	6809	Resource-based manufactures: other	Labor Intensive	ABOVE	4326763.706	0.8504186957	6
Articles of cement, of concrete or of artificial stone, whether or not reinforced.	6810	Resource-based manufactures: other	Labor Intensive	BELOW	3478157.337	0.8615309878	6
Articles of asbestos- cement, of cellulose fibre- cement or the like	6811	Resource-based manufactures: other	Labor Intensive	ABOVE	5153290.716	0.8522052603	6
Cullet and other waste and scrap of glass; glass in the mass.	7001	Resource-based manufactures: other	Labor Intensive	ABOVE	4546155.217	0.8644938303	6
Paving blocks, slabs, bricks, squares, tiles and other articles of pressed or moulded glass, whether or not wired, of a kind used for building or construction purposes; glass cubes and other glass smallwares, whether or not on a backing, for mosaics or similar decorative purposes; leaded lights and the like; multicellular or	7016	Resource-based manufactures: other	Labor Intensive	BELOW	1621067.135	0.8581544302	6

Names	Codes Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
foam glass in blocks, panels, plates, shells or similar forms.						
Glass fibres (including glass wool) and articles thereof (for example, yarn, woven fabrics).	7019 Resource-based manufactures: other	Labor Intensive	BELOW	2865790.535	0.8634117491	6
Diamonds, whether or not worked, but not mounted or set.	7102 Primary Products	Raw Materials	ABOVE	6171312.18	0.8528758298	6
Silver (including silver plated with gold or platinum), unwrought or in semimanufactured forms, or in powder form.	7106 Primary Products	Raw Materials	BELOW	2057836.301	0.8627468857	6
Articles of goldsmiths' or silversmiths' wares and parts thereof, of precious metal or of metal clad with precious metal.	7114 Primary Products	Raw Materials	BELOW	2634419.408	0.8603752026	6
Articles of natural or cultured pearls, precious or semi-precious stones(natural, synthetic or reconstructed).	7116 Primary Products	Raw Materials	ABOVE	3915385.836	0.8502616043	6
Ferrous products obtained by direct reduction of iron ore and other spongy ferrous products, in lumps, pellets or similar forms; iron having a minimum purity by weight of 99.94 %, in lumps, pellets or similar forms.	7203 Low technology manufactures: other products	Capital Intensive	ABOVE	16077076.19	0.8644826868	6
Flat-rolled products of iron or non-alloy steel, of a width of 600 mm or more, hotrolled, not clad, plated or coated.	7208 Low technology manufactures: other products	Capital Intensive	BELOW	2713404.012	0.8607382116	6
Bars and rods, hot-rolled, in irregularly wound coils, of iron or non- alloy steel.	7213 Low technology manufactures: other products	Capital Intensive	BELOW	3559590.033	0.8529553407	6
Other bars and rods of iron or non-alloy steel.	7215 Low technology manufactures: other products	Capital Intensive	BELOW	3203407.787	0.8621288041	6
Angles, shapes and sections of iron or nonalloy steel.	7216 Low technology manufactures: other products	Capital Intensive	ABOVE	15678781.62	0.8523335628	6
Reservoirs, tanks, vats and similar containers for any material (other than compressed or liquefied gas), of iron or steel, of a capacity exceeding 300 l, whether or not lined or heatinsulated, but not fitted with mechanical or thermal equipment.	7309 Medium technology manufactures: process	Machinery	ABOVE	4170690.743	0.8606441293	6
Containers for compressed or liquefied gas, of iron or steel.	7311 Medium technology manufactures: process	Machinery	ABOVE	5285411.536	0.8524044892	6
Cloth (including endless bands), grill, netting and fencing, of iron or steel wire; expanded metal of iron or steel.	7314 Medium technology manufactures: process	Machinery	ABOVE	3939296.774	0.8574575436	6
Anchors, grapnels and parts thereof, of iron or steel.	7316 Medium technology manufactures: process	Machinery	BELOW	2019031.455	0.8653559528	6
Sanitary ware and parts thereof, of iron or steel.	7324 Medium technology manufactures: process	Machinery	BELOW	1556135.74	0.8562646072	6
Other cast articles of iron or steel.	7325 Medium technology manufactures: process	Machinery	BELOW	2848174.359	0.8564972049	6
Copper plates, sheets and strip, of a thickness exceeding 0.15 mm.	7409 Resource-based manufactures: other	Raw Materials	BELOW	2677097.218	0.8630860333	6
Aluminium wire.	7605 Low technology manufactures: other products	Capital Intensive	ABOVE	13404541.21	0.859627398	6

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Aluminium structures (excluding prefabricated buildings of heading 94.06) and parts of structures (for example, bridges and bridge-sections, towers, lattice masts, roofs, roofing frameworks, doors and windows and their frames and thresholds for doors, balustrades, pillars and columns); aluminium plates, rods, profiles, tubes and the like, prepared for use in structures.	7610	Low technology manufactures: other products	Capital Intensive	ABOVE	5101217.927	0.8587395456	6
Other articles of lead.	7806	Primary products	Raw Materials	BELOW	2441452.324	0.8645451183	6
Unwrought zinc.	7901	Primary Products	Raw Materials	BELOW	3755549.98	0.8486726395	6
Unwrought tin.	8001	Primary products	Raw Materials	BELOW	3296482.113	0.8608641028	6
Manganese and articles thereof, including waste and scrap.	8111	Resource-based manufactures: other	Raw Materials	BELOW	683205.1897	0.8522015538	6
Hand tools, the following: spades, shovels, mattocks, picks, hoes, forks and rakes; axes, bill hooks and similar hewing tools; secateurs and pruners of any kind; scythes, sickles, hay knives, hedge shears, timber wedges and other tools of a kind used in agriculture, horticulture or forestry.	8201	Low technology manufactures: other products	Capital Intensive	BELOW	1864386.792	0.8611492005	6
Hand- operated mechanical appliances, weighing 10 kg or less, used in the preparation, conditioning or serving of food or drink.	8210	Low technology manufactures: other products	Capital Intensive	BELOW	1608850.541	0.8527804244	6
Flexible tubing of base metal, with or without fittings.	8307	High technology manufactures: electronic and electrical	Machinery	BELOW	2693382.255	0.8510227645	6
Producer gas or water gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or without their purifiers.	8405	High technology manufactures: electronic and electrical	Machinery	BELOW	3694809.753	0.8628028587	6
Hydraulic turbines, water wheels, and regulators therefor.	8410	High technology manufactures: electronic and electrical	Machinery	BELOW	3359054.653	0.8617565835	6
Other moving, grading, levelling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals or ores; pile- drivers and pile- extractors; snowploughs and snow- blowers.	8430	High technology manufactures: electronic and electrical	Machinery	ABOVE	4240859.951	0.8614946327	6
Machines for cleaning, sorting or grading seed, grain or dried leguminous vegetables; machinery used in the milling industry or for the working of cereals or dried leguminous vegetables, other than farm- type machinery.	8437	High technology manufactures: electronic and electrical	Machinery	BELOW	2383778.889	0.8578820568	6
Household or laundry- type washing machines, including machines which both wash and dry.	8450	High technology manufactures: electronic and electrical	Machinery	BELOW	2105937.762	0.8581877543	6
Sewing machines, other than book- sewing machines of heading 84.40;	8452	High technology manufactures:	Machinery	BELOW	1494118.878	0.8644038527	6

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Furniture, bases and covers specially designed for sewing machines; sewing machine needles.		electronic and electrical					
Machinery for preparing, tanning or working hides, skins or leather or for making or repairing footwear or other articles of hides, skins or leather, other than sewing machines.	8453	High technology manufactures: electronic and electrical	Machinery	BELOW	1361498.635	0.8604084184	6
Electric instantaneous or storage water heaters and immersion heaters; electric space heating apparatus and soil heating apparatus; electro-thermic hair- dressing apparatus (for example, hair dryers, hair curlers, curling tong heaters) and hand dryers; electric smoothing irons; other electro- thermic appliances of a kind used for domestic purposes; electric heating resistors, other than those of heading 85.45.	8516	Medium technology manufactures: engineering	Machinery	BELOW	2058411.791	0.86023681	6
Monitors and projectors, not incorporating television reception apparatus; reception apparatus for television, whether or not incorporating radio- broadcast receivers or sound or video recording or reproducing apparatus.	8528	Medium technology manufactures: engineering	Machinery	BELOW	2135908.569	0.8589946407	6
Waste and scrap of primary cells, primary batteries and electric accumulators; spent primary cells, spent primary batteries and spent electric accumulators; electrical parts of machinery or apparatus, not specified or included elsewhere in this Chapter.	8548	Medium technology manufactures: engineering	Machinery	ABOVE	4298637.272	0.8628334736	6
Motor vehicles for the transport of ten or more persons, including the driver.	8702	Medium technology manufactures: automotive	Machinery	BELOW	2664381.645	0.8627994761	6
Parts and accessories of vehicles of headings Nos. 87.11 to 87.13	8714	Medium technology manufactures: automotive	Machinery	BELOW	1519206.099	0.8593345863	6
Baby carriages and parts thereof	8715	Medium technology manufactures: automotive	Machinery	BELOW	1388356.683	0.8624178147	6
Light- vessels, fire- floats, dredgers, floating cranes, and other vessels the navigability of which is subsidiary to their main function; floating docks; floating or submersible drilling or production platforms.	8905	Medium technology manufactures: engineering	Machinery	BELOW	3093723.103	0.8638393791	6
Other floating structures (for example, rafts, tanks, coffer- dams, landing- stages, buoys and beacons).	8907	Medium technology manufactures: engineering	Machinery	ABOVE	5734403.093	0.8597441213	6
Frames and mountings for spectacles, goggles or the like, and parts thereof.	9003	High technology manufactures: other	Machinery	BELOW	2343440.038	0.8651326122	6
Photographic (other than cinematographic) cameras; photographic flashlight apparatus and flashbulbs other than discharge lamps of heading 85.39.	9006	High technology manufactures: other	Machinery	ABOVE	7208134.276	0.8645701717	6
Gas, liquid or electricity supply or production meters, including calibrating meters therefor.	9028	High technology manufactures: other	Machinery	BELOW	3319756.479	0.861141686	6

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Clocks with watch movements, excluding clocks of heading 91.04.	9103	Medium technology manufactures: engineering	Machinery	ABOVE	4011211.258	0.857084621	6
Watch straps, watch bands and watch bracelets, and parts thereof.	9113	Medium technology manufactures: engineering	Machinery	ABOVE	4820576.528	0.8528437003	6
Other string musical instruments (for example, guitars, violins, harps).	9202	Low technology manufactures: other products	Labor Intensive	BELOW	1173464.548	0.8566257501	6
Military weapons, other than revolvers, pistols and the arms of heading 93.07.	9301	Unclassified Products	-	BELOW	2781560.087	0.8621459759	6
Other firearms and similar devices which operate by the firing of an explosive charge (for example, sporting shotguns and rifles, muzzle-loading firearms, Very pistols and other devices designed to project only signal flares, pistols and revolvers for firing blank ammunition, captive- bolt humane killers, line- throwing guns).	9303	Unclassified Products	-	BELOW	3160304.252	0.8589305077	6
Prefabricated buildings.	9406	Low technology manufactures: other products	Labor Intensive	ABOVE	8969381.97	0.861681194	6
Pencils (other than pencils of heading 96.08), crayons, pencil leads, pastels, drawing charcoals, writing or drawing chalks and tailors' chalks.	9609	High technology manufactures: electronic and electrical	Machinery	BELOW	1512093.509	0.8526470399	6
Slates and boards, with writing or drawing surfaces, whether or not framed.	9610	High technology manufactures: electronic and electrical	Machinery	BELOW	1694548.844	0.86280884	6
Cigarette lighters and other lighters, whether or not mechanical or electrical, and parts thereof other than flints and wicks.	9613	High technology manufactures: electronic and electrical	Machinery	BELOW	1758870.761	0.8515749772	6
Smoking pipes (including pipe bowls) and cigar or cigarette holders, and parts thereof.	9614	High technology manufactures: electronic and electrical	Machinery	BELOW	1546982.09	0.8492045789	6
Combs, hair- slides and the like; hairpins, curling pins, curling grips, hair- curlers and the like, other than those of heading 85.16, and parts thereof.	9615	High technology manufactures: electronic and electrical	Machinery	BELOW	748617.6654	0.851403332	6
Vacuum flasks and other vacuum vessels, complete with cases; parts thereof other than glass inners.	9617	High technology manufactures: electronic and electrical	Machinery	BELOW	837745.8435	0.859679814	6
Live swine	103	Primary products	Animal Products	ABOVE	5909087.265	0.8655537936	7
Pig fat, free of lean meat, and poultry fat, not rendered or otherwise extracted, fresh, chilled, frozen, salted, in brine, dried or smoked.	209	Primary products	Animal Products	ABOVE	4272601.293	0.8795222846	7
Whey, whether or not concentrated or containing added sugar or other sweetening matter; products consisting of natural milk constituents, whether or not containing added sugar or other sweetening matter, not elsewhere specified or included.	404	Primary Products	Animal Products	ABOVE	6134653.853	0.8729812616	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Butter and other fats and oils derived from milk; dairy spread.	405	Primary Products	Animal Products	ABOVE	9494746.428	0.8712239253	7
Barley	1003	Primary Products	Cereals, etc.	ABOVE	5040626.322	0.8720866024	7
Oats	1004	Primary Products	Cereals, etc.	ABOVE	5737829.947	0.8773747549	7
Rape or colza seeds, whether or not broken.	1205	Primary Products	Cereals, etc.	ABOVE	5387270.906	0.8682247676	7
Pig fat (including lard) and poultry fat, other than that of heading 02.09 or 15.03	1501	Resource-based manufactures: other	Cereals, etc.	BELOW	2428396.973	0.878453924	7
Wool grease and fatty substances derived therefrom (including lanolin)	1505	Resource-based manufactures: other	Cereals, etc.	ABOVE	4028938.871	0.8751900073	7
Other animal fats and oils and their fractions, whether or not refined, but not chemically modified.	1506	Resource-based manufactures: other	Cereals, etc.	BELOW	3289481.47	0.8753456577	7
Extracts and juices of meat, fish or crustaceans, molluscs or other aquatic invertebrates.	1603	Resource-based manufactures: agro-based	Animal Products	ABOVE	6284285.142	0.87528482	7
Cocoa paste, whether or not defatted.	1803	Primary products	Tropical Agriculture	BELOW	3088670.897	0.8709787369	7
Cocoa butter, fat and oil.	1804	Primary products	Tropical Agriculture	BELOW	2493989.732	0.87571954	7
Other vegetables prepared or preserved otherwise than by vinegar or acetic acid, frozen, other than products of heading 20.06.	2004	Primary products	Tropical Agriculture	BELOW	2532711.744	0.8673530598	7
Other fermented beverages (for example, cider, perry, mead, saké); mixtures of fermented beverages and mixtures of fermented beverages and non- alcoholic beverages, not elsewhere specified or included	2206	Resource-based manufactures: agro-based	Tropical Agriculture	ABOVE	8836454.304	0.8656151112	7
Vinegar and substitutes for vinegar obtained from acetic acid.	2209	Resource-based manufactures: agro-based	Tropical Agriculture	BELOW	3068274.451	0.867805303	7
Unroasted iron pyrites.	2502	Primary products	Raw Materials	BELOW	2240695.356	0.8721361497	7
Siliceous fossil meals (for example, kieselguhr, tripolite and diatomite) and similar siliceous earths, whether or not calcined, of an apparent specific gravity of 1 or less.	2512	Primary products	Raw Materials	BELOW	2934909.994	0.8661010742	7
Molybdenum ores and concentrates.	2613	Resource-based manufactures: other	Raw Materials	ABOVE	6970611.334	0.8689524463	7
Coke and semi- coke of coal, of lignite or of peat, whether or not agglomerated; retort carbon.	2704	Resource-based manufactures: other	Raw Materials	BELOW	3261751.588	0.87050787	7
Oils and other products of the distillation of high temperature coal tar; similar products in which the weight of the aromatic constituents exceeds that of the non- aromatic constituents	2707	Resource-based manufactures: other	Raw Materials	ABOVE	5587081.78	0.8743540533	7
Bitumen and asphalt, natural; bituminous or oil shale and tar sands; asphaltites and asphaltic rocks.	2714	Resource-based manufactures: other	Raw Materials	BELOW	2779766.68	0.8732895191	7
Bituminous mixtures based on natural asphalt, on natural bitumen, on petroleum bitumen, on mineral tar or on mineral tar pitch (for example, bituminous mastics, cutbacks).	2715	Resource-based manufactures: other	Raw Materials	BELOW	2939241.982	0.8665661599	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Carbon (carbon blacks and other forms of carbon not elsewhere specified or included).	2803	Resource-based manufactures: other	Chemical	BELOW	2157326.579	0.87599213	7
Hydrogen, rare gases and other non-metals	2804	Resource-based manufactures: other	Chemical	ABOVE	4386060.9	0.879088204	7
Alkali or alkaline- earth metals; rare-earth metals, scandium and yttrium, whether or not intermixed or inter-alloyed; mercury.	2805	Resource-based manufactures: other	Chemical	BELOW	1559467.923	0.8700465243	7
Other inorganic acids and other inorganic oxygen compounds of non-metals.	2811	Resource-based manufactures: other	Chemical	BELOW	2749564.432	0.869654177	7
Chromium oxides and hydroxides.	2819	Resource-based manufactures: other	Chemical	ABOVE	5567249.926	0.8731667622	7
Manganese oxides.	2820	Resource-based manufactures: other	Chemical	ABOVE	4682262.934	0.8728013621	7
Iron oxides and hydroxides; earth colours containing 70 % or more by weight of combined iron evaluated as Fe <sub>2</sub> O <sub>3</sub> .	2821	Resource-based manufactures: other	Chemical	BELOW	1407684.715	0.8731454796	7
Titanium oxides	2823	Resource-based manufactures: other	Chemical	BELOW	1590398.489	0.877429674	7
Borates; peroxoborates (perborates).	2840	Resource-based manufactures: other	Chemical	BELOW	1939840.185	0.8654613347	7
Carbides, whether or not chemically defined.	2849	Resource-based manufactures: other	Chemical	BELOW	1687099.326	0.8817899242	7
Inorganic or organic compounds of mercury, whether or not chemically defined, excluding amalgams	2852	Resource-based manufactures: other	Chemical	BELOW	3387822.91	0.8790736404	7
Acyclic hydrocarbons.	2901	Resource-based manufactures: other	Chemical	BELOW	2388884.39	0.8821791731	7
Cyclic alcohols and their halogenated, sulphonated, nitrated or nitrosated derivatives.	2906	Resource-based manufactures: other	Chemical	BELOW	1540342.916	0.8802230629	7
Halogenated, sulphonated, nitrated or nitrosated derivatives of products of heading 29.12.	2913	Resource-based manufactures: other	Chemical	BELOW	505360.7698	0.8778428265	7
Saturated acyclic monocarboxylic acids and their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives.	2915	Resource-based manufactures: other	Chemical	BELOW	1829213.902	0.8710543147	7
Oxygen- function amino-compounds.	2922	Resource-based manufactures: other	Chemical	BELOW	2335977.943	0.8725320328	7
Quaternary ammonium salts and hydroxides; lecithins and other phosphoaminolipids, whether or not chemically defined.	2923	Resource-based manufactures: other	Chemical	BELOW	1919778.626	0.8739549157	7
Carboxamide- function compounds; amidefunction compounds of carbonic acid.	2924	Resource-based manufactures: other	Chemical	BELOW	3073197.957	0.8820419318	7
Diazo- , azo- or azoxy- compounds.	2927	Resource-based manufactures: other	Chemical	BELOW	1403319.185	0.8657449479	7
Sulphonamides.	2935	Resource-based manufactures: other	Chemical	ABOVE	6033460.758	0.8776615126	7
Provitamins and vitamins, natural or reproduced by synthesis (including natural concentrates), derivatives thereof used primarily as vitamins, and intermixtures of the foregoing, whether or not in any solvent.	2936	Resource-based manufactures: other	Chemical	BELOW	2069216.141	0.876377735	7

<b>Names</b>	<b>Codes</b>	<b>Lall Classification</b>	<b>Leamer's name</b>	<b>Prody above or below Pak Ave</b>	<b>Prody</b>	<b>Distance</b>	<b>Groups</b>
Alkaloids, natural or reproduced by synthesis, and their salts, ethers, esters and other derivatives.	2939	Resource-based manufactures: other	Chemical	BELOW	2001800.718	0.8727622364	7
Glands and other organs for organotherapeutic uses, dried, whether or not powdered; extracts of glands or other organs or of their secretions for organo-therapeutic uses; heparin and its salts; other human or animal substances prepared for therapeutic or prophylactic uses, not elsewhere specified or included.	3001	High technology manufactures: other	Chemical	BELOW	2294338.809	0.870911126	7
Colouring matter of vegetable or animal origin (including dyeing extracts but excluding animal black), whether or not chemically defined; preparations as specified in Note 3 to this Chapter based on colouring matter of vegetable or animal origin.	3203	Medium technology manufactures: process	Chemical	BELOW	3447275.076	0.8800081434	7
Other paints and varnishes (including enamels, lacquers and distempers); prepared water pigments of a kind used for finishing leather.	3210	Medium technology manufactures: process	Chemical	ABOVE	7368945.995	0.8717166613	7
Pigments (including metallic powders and flakes) dispersed in non-aqueous media, in liquid or paste form, of a kind used in the manufacture of paints (including enamels); stamping foils; dyes and other colouring matter put up in forms or packings for retail sale	3212	Medium technology manufactures: process	Chemical	BELOW	2417143.389	0.8822856173	7
Artificial waxes and prepared waxes.	3404	Medium technology manufactures: process	Chemical	BELOW	2002155.176	0.8754031245	7
Candles, tapers and the like	3406	Medium technology manufactures: process	Chemical	BELOW	3271781.881	0.8656248956	7
Modelling pastes, including those put up for children's amusement; preparations known as "dental wax" or as "dental impression compounds", put up in sets, in packings for retail sale or in plates, horseshoe shapes, sticks or similar forms; other preparations for use in dentistry, with a basis of plaster (of calcined gypsum or calcium sulphate).	3407	Medium technology manufactures: process	Chemical	BELOW	1704553.484	0.8702808197	7
Casein, caseinates and other casein derivatives; casein glues.	3501	Medium technology manufactures: process	Chemical	ABOVE	12132461.98	0.8657034458	7
Peptones and their derivatives; other protein substances and their derivatives, not elsewhere specified or included; hide powder, whether or not chromed.	3504	Medium technology manufactures: process	Chemical	BELOW	3134010.956	0.8797194373	7
Photographic plates, film, paper, paperboard and textiles, exposed but not developed.	3704	Medium technology manufactures: process	Machinery	ABOVE	4143157.177	0.8683670774	7
Cinematographic film, exposed and developed, whether or not incorporating sound track or consisting only of sound track.	3706	Medium technology manufactures: process	Machinery	BELOW	1616394.067	0.8791961339	7
Prepared rubber accelerators; compound plasticisers for rubber or plastics, not elsewhere specified or	3812	Medium technology manufactures: process	Chemical	BELOW	1795670.041	0.8715021972	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
included; antioxidising preparations and other compound stabilisers for rubber or plastics.							
Preparations and charges for fireextinguishers; charged fire-extinguishing grenades.	3813	Medium technology manufactures: process	Chemical	BELOW	2401525.762	0.8819092623	7
Refractory cements, mortars, concretes and similar compositions, other than products of heading 38.01.	3816	Medium technology manufactures: process	Chemical	BELOW	3128827.741	0.8682282996	7
Mixed alkylbenzenes and mixed alkylnaphthalenes, other than those of heading 27. 07 or 29. 02.	3817	Medium technology manufactures: process	Chemical	BELOW	3849633.561	0.8664478291	7
Amino- resins, phenolic resins and polyurethanes, in primary forms.	3909	Medium technology manufactures: process	Chemical	BELOW	2194677.624	0.8753947942	7
Other plates, sheets, film, foil and strip, of plastics.	3921	Medium technology manufactures: process	Chemical	BELOW	3303823.025	0.8737722743	7
Compounded rubber, unvulcanised, in primary forms or in plates, sheets or strip	4005	Resource-based manufactures: agro-based	Capital Intensive	BELOW	2715179.11	0.874384544	7
Plates, sheets, strip, rods and profile shapes, of vulcanised rubber other than hard rubber.	4008	Resource-based manufactures: agro-based	Capital Intensive	BELOW	3258385.19	0.8685495485	7
Conveyor or transmission belts or belting, of vulcanised rubber.	4010	Resource-based manufactures: agro-based	Capital Intensive	BELOW	2079208.451	0.8666853176	7
Other articles of vulcanised rubber other than hard rubber.	4016	Resource-based manufactures: agro-based	Capital Intensive	BELOW	3506664.457	0.86788773	7
Articles of gut (other than silk- worm gut), of goldbeater's skin, of bladders or of tendons.	4206	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2109722.368	0.8714467043	7
Wood in the rough, whether or not stripped of bark or sapwood, or roughly squared	4403	Resource-based manufactures: agro-based	Forest Products	ABOVE	13299645.53	0.8740553529	7
Wood sawn or chipped lengthwise, sliced or peeled, whether or not planned, sanded or endjointed, of a thickness exceeding 6 mm.	4407	Resource-based manufactures: agro-based	Forest Products	ABOVE	7617385.602	0.8671255264	7
Densified wood, in blocks, plates, strips or profile shapes	4413	Resource-based manufactures: agro-based	Forest Products	ABOVE	11537122.09	0.868626982	7
Packing cases, boxes, crates, drums and similar packings, of wood; cable-drums of wood; pallets, box pallets and other load boards, of wood; pallet collars of wood.	4415	Resource-based manufactures: agro-based	Forest Products	ABOVE	7649850.269	0.8703578389	7
Chemical wood pulp, dissolving grades	4702	Resource-based manufactures: agro-based	Forest Products	ABOVE	4763728.897	0.8754839572	7
Chemical wood pulp, soda or sulphate, other than dissolving grades.	4703	Resource-based manufactures: agro-based	Forest Products	ABOVE	3940047.601	0.8669177042	7
Uncoated paper and paperboard, of a kind used for writing, printing or other graphic purposes, and non perforated punch- cards and punch tape paper, in rolls or rectangular (including square) sheets, of any size, other than paper of heading 48. 01 or 48.03; handmade paper and paperboard.	4802	Resource-based manufactures: agro-based	Forest Products	ABOVE	3994356.472	0.8683974139	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Composite paper and paperboard (made by sticking flat layers of paper or paperboard together with an adhesive), not surfacecoated or impregnated, whether or not internally reinforced, in rolls or sheets.	4807	Resource-based manufactures: agro-based	Forest Products	BELOW	3143477.439	0.8684592415	7
Paper and paperboard, corrugated (with or without glued flat surface sheets), creped, crinkled, embossed or perforated, in rolls or sheets, other than paper of the kind described in heading 48.03.	4808	Resource-based manufactures: agro-based	Forest Products	BELOW	3279423.485	0.8668173383	7
Filter blocks, slabs and plates, of paper pulp.	4812	Resource-based manufactures: agro-based	Forest Products	BELOW	3516961.784	0.8781459419	7
Cigarette paper, whether or not cut to size or in the form of booklets or tubes	4813	Resource-based manufactures: agro-based	Forest Products	ABOVE	3949239.53	0.8654788097	7
Wallpaper and similar wall coverings; window transparencies of paper	4814	Resource-based manufactures: agro-based	Forest Products	BELOW	2538609.711	0.8750227691	7
Carbon paper, self-copy paper and other copying or transfer papers (other than those of heading 48.09), duplicator stencils and offset plates, of paper, whether or not put up in boxes	4816	Resource-based manufactures: agro-based	Forest Products	BELOW	996532.6642	0.8699957634	7
Newspapers, journals and periodicals, whether or not illustrated or containing advertising material.	4902	Unclassified products	Labor Intensive	BELOW	3701816.597	0.8796860744	7
Children's picture, drawing or colouring books.	4903	Unclassified products	Labor Intensive	BELOW	1353759.454	0.8659489317	7
Maps and hydrographic or similar charts of all kinds, including atlases, wall maps, topographical plans and globes, printed.	4905	Unclassified products	Labor Intensive	BELOW	3890496.004	0.8739378481	7
Transfers (decalcomanias).	4908	Unclassified products	Labor Intensive	BELOW	1870392.88	0.8722056784	7
Calendars of any kind, printed, including calendar blocks.	4910	Unclassified products	Labor Intensive	BELOW	2459721.231	0.8789538977	7
Other printed matter, including printed pictures and photographs.	4911	Unclassified products	Labor Intensive	ABOVE	4081478.776	0.8778964217	7
Woven fabrics of carded wool or of carded fine animal hair.	5111	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2689561.057	0.8696672207	7
Synthetic monofilament of 67 decitex or more and of which no cross-sectional dimension exceeds 1mm; strip and the like (for example, artificial straw) of synthetic textile materials of an apparent width not exceeding 5mm.	5404	Medium technology manufactures: process	Chemical	BELOW	1868778.598	0.8688347205	7
Synthetic staple fibres, carded, combed or otherwise processed for spinning.	5507	Medium technology manufactures: process	Cereals, etc.	BELOW	2303224.691	0.8694750276	7
Felt, whether or not impregnated, coated, covered or laminated.	5602	Resource-based manufactures: agro-based	Capital Intensive	BELOW	3836609.392	0.8698719568	7
Nonwovens, whether or not impregnated, coated, covered or laminated.	5603	Resource-based manufactures: agro-based	Capital Intensive	ABOVE	5736639.505	0.8743795321	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Carpets and other textile floor coverings, of felt, not tufted or flocked, whether or not made up.	5704	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2804877.495	0.8745855523	7
Gauze, other than narrow fabrics of heading 58.06.	5803	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	1714124.922	0.8745045736	7
Textile wall coverings.	5905	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2656124.837	0.8814507661	7
Rubberised textile fabrics, other than those of heading 59.02.	5906	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2121267.23	0.8806668218	7
Transmission or conveyor belts or belting, of textile material, whether or not impregnated, coated, covered or laminated with plastics, or reinforced with metal or other material.	5910	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2519139.092	0.8801926941	7
Articles of asphalt or of similar material (for example, petroleum bitumen or coal tar pitch). 6807.1000 - In rolls	6807	Resource-based manufactures: other	Labor Intensive	BELOW	3487049.499	0.8680681573	7
Panels, boards, tiles, blocks and similar articles of vegetable fibre, of straw or of shavings, chips, particles, sawdust or other waste, of wood, agglomerated with cement, plaster or other mineral binders.	6808	Resource-based manufactures: other	Labor Intensive	ABOVE	4182668.767	0.8695569991	7
Fabricated asbestos fibres; mixtures with a basis of asbestos or with a basis of asbestos and magnesium carbonate; articles of such mixtures or of asbestos (for example, thread, woven fabric, clothing, headgear, footwear, gaskets), whether or not reinforced, other than goods of heading 68.11 or 68.13.	6812	Resource-based manufactures: other	Labor Intensive	BELOW	1719230.461	0.8721472288	7
Friction material and articles thereof (for example, sheets, rolls, strips, segments, discs, washers, pads), not mounted, for brakes, for clutches or the like, with a basis of asbestos, of other mineral substances or of cellulose, whether or not combined with textile or other materials.	6813	Resource-based manufactures: other	Labor Intensive	BELOW	1851227.898	0.8778830106	7
Other refractory ceramic goods (for example, retorts, crucibles, muffles, nozzles, plugs, supports, cupels, tubes, pipes, sheaths and rods), other than those of siliceous fossil meals or of similar siliceous earths.	6903	Low technology manufactures: other products	Labor Intensive	BELOW	1813543.012	0.8803736778	7
Roofing tiles, chimney- pots, cowls, chimney liners, architectural ornaments and other ceramic constructional goods.	6905	Low technology manufactures: other products	Labor Intensive	ABOVE	5008944.128	0.866460562	7
Safety glass, consisting of toughened (tempered) or laminated glass.	7007	Resource-based manufactures: other	Labor Intensive	ABOVE	5159620.72	0.8669625583	7
Multiple- walled insulating units of glass	7008	Resource-based manufactures: other	Labor Intensive	ABOVE	5103894.891	0.869658554	7
Glass mirrors, whether or not framed, including rear- view mirrors.	7009	Resource-based manufactures: other	Labor Intensive	BELOW	1438770.607	0.8769746254	7
Glass beads, imitation pearls, imitation precious or semi- precious stones and similar glass smallwares,	7018	Resource-based manufactures: other	Labor Intensive	BELOW	1235553.422	0.8667000037	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
and articles thereof other than imitation jewellery; glass eyes other than prosthetic articles; statuettes and other ornaments of lamp-worked glass, other than imitation jewellery; glass microspheres not exceeding 1 mm in diameter.							
Other articles of glass.	7020	Resource-based manufactures: other	Labor Intensive	BELOW	1961877.168	0.8701808355	7
Waste and scrap of precious metal or of metal clad with precious metal; other waste and scrap containing precious metal or precious metal compounds, of a kind used principally for the recovery of precious metal.	7112	Primary Products	Raw Materials	BELOW	2799028.5	0.8737312052	7
Iron and non-alloy steel in ingots or other primary forms (excluding iron of heading 72.03).	7206	Low technology manufactures: other products	Capital Intensive	ABOVE	9219245.006	0.8661723899	7
Flat-rolled products of iron or non-alloy steel, of a width of less than 600 mm, not clad, plated or coated.	7211	Low technology manufactures: other products	Capital Intensive	BELOW	2886881.634	0.8731589629	7
Flat-rolled products of iron or non-alloy steel, of a width of less than 600 mm, clad, plated or coated.	7212	Low technology manufactures: other products	Capital Intensive	BELOW	2600583.909	0.8665145127	7
Bars and rods, hot-rolled, in irregularly wound coils, of stainless steel.	7221	Low technology manufactures: other products	Capital Intensive	BELOW	1525123.651	0.8815766112	7
Other bars and rods of stainless steel; angles, shapes and sections of stainless steel.	7222	Low technology manufactures: other products	Capital Intensive	BELOW	3602135.746	0.8791019174	7
Wire of stainless steel.	7223	Low technology manufactures: other products	Capital Intensive	BELOW	2186961.106	0.8811152523	7
Other alloy steel in ingots or other primary forms; semi-finished products of other alloy steel.	7224	Low technology manufactures: other products	Capital Intensive	BELOW	2534153.233	0.8767110075	7
Bars and rods, hot-rolled, in irregularly wound coils, of other alloy steel.	7227	Low technology manufactures: other products	Capital Intensive	BELOW	1661607.454	0.8788150369	7
Other bars and rods of other alloy steel; angles, shapes and sections, of other alloy steel; hollow drill bars and rods, of alloy or non-alloy steel.	7228	Low technology manufactures: other products	Capital Intensive	BELOW	2911268.212	0.8765397005	7
Sheet piling of iron or steel, whether or not drilled, punched or made from assembled elements; welded angles, shapes and sections, of iron or steel.	7301	Medium technology manufactures: process	Machinery	ABOVE	40590413.65	0.8719279681	7
Other tubes and pipes (for example, welded, riveted or similarly closed), having circular cross-sections, the external diameter of which exceeds 406.4 mm, of iron or steel.	7305	Medium technology manufactures: process	Machinery	BELOW	1958671.077	0.8770012699	7
Tube or pipe fittings (for example,	7307	Medium technology manufactures: process	Machinery	BELOW	2286210.067	0.8807255188	7
sewing needles, knitting needles, bodkins, crochet hooks, embroidery stiletos and similar articles, for use in the hand, of iron or steel; safety pins and other pins of iron or steel, not elsewhere specified or included.	7319	Medium technology manufactures: process	Machinery	BELOW	1612198.787	0.8667593863	7
Stoves, ranges, grates, cookers (including those with subsidiary	7320	Medium technology manufactures: process	Machinery	BELOW	2248648.738	0.8727960606	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
boilers for central heating), barbecues, braziers, gas- rings, plate warmers and similar non- electric domestic appliances, and parts thereof, of iron or steel.							
Radiators for central heating, not electrically heated, and parts thereof, of iron or steel; air heaters and hot air distributors (including distributors which can also distribute fresh or conditioned air), not electrically heated, incorporating a motor- driven fan or blower, and parts thereof, of iron or steel.	7322	Medium technology manufactures: process	Machinery	BELOW	2827383.213	0.8718760153	7
Master alloys of copper.	7405	Resource-based manufactures: other	Raw Materials	BELOW	3204324.569	0.8820682525	7
Copper tubes and pipes.	7411	Resource-based manufactures: other	Raw Materials	BELOW	2908424.901	0.872763706	7
Copper tube or pipe fittings (for example, couplings, elbows, sleeves).	7412	Resource-based manufactures: other	Raw Materials	BELOW	1835365.693	0.8731213822	7
Nails, tacks, drawing pins, staples (other than those of heading 83.05) and similar articles, of copper or of iron or steel with heads of copper; screws, bolts, nuts, screw hooks, rivets, cotters, cotter- pins, washers (including spring washers) and similar articles, of copper.	7415	Resource-based manufactures: other	Raw Materials	BELOW	2531360.037	0.8811447497	7
Other articles of copper.	7419	Resource-based manufactures: other	Raw Materials	BELOW	2357283.959	0.8768687296	7
Nickel waste and scrap.	7503	Resource-based manufactures: other	Raw Materials	ABOVE	4873482.306	0.8660789188	7
Aluminium plates, sheets and strip, of a thickness exceeding 0.2 mm.	7606	Low technology manufactures: other products	Capital Intensive	BELOW	3114561.109	0.8691722452	7
Aluminium foil (whether or not printed or backed with paper, paperboard, plastics or similar backing materials) of a thickness (excluding any backing) not exceeding 0.2 mm.	7607	Low technology manufactures: other products	Capital Intensive	ABOVE	6346900.296	0.8708061557	7
Aluminium tubes and pipes.	7608	Low technology manufactures: other products	Capital Intensive	BELOW	2988072.61	0.8665612754	7
Aluminium tube or pipe fittings (for example, couplings, elbows, sleeves).	7609	Low technology manufactures: other products	Capital Intensive	BELOW	1675709.444	0.8677063272	7
Lead waste and scrap.	7802	Primary products	Raw Materials	ABOVE	31373196.58	0.8720702977	7
Lead plates, sheets, strip and foil; lead powders and flakes.	7804	Primary products	Raw Materials	ABOVE	4015260.526	0.8711993894	7
Zinc bars, rods, profiles and wire.	7904	Primary Products	Raw Materials	BELOW	3738521.136	0.8753887675	7
Zinc plates, sheets, strip and foil.	7905	Primary Products	Raw Materials	BELOW	2509843.131	0.8819073911	7
Other articles of zinc.	7907	Primary Products	Raw Materials	BELOW	3604077.355	0.8741382777	7
Tin waste and scrap.	8002	Primary products	Raw Materials	BELOW	3588860.329	0.8802843805	7
Tin bars, rods, profiles and wire	8003	Primary products	Raw Materials	BELOW	1819078.334	0.8745530443	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Other articles of tin.	8007	Primary products	Raw Materials	BELOW	2028658.223	0.8809212438	7
Magnesium and articles thereof, including waste and scrap.	8104	Resource-based manufactures: other	Raw Materials	BELOW	1623743.592	0.8698179897	7
Cobalt mattes and other intermediate products of cobalt metallurgy; cobalt and articles thereof, including waste and scrap	8105	Resource-based manufactures: other	Raw Materials	BELOW	3295547.881	0.8797685106	7
Cadmium and articles thereof, including waste and scrap.	8107	Resource-based manufactures: other	Raw Materials	BELOW	2699587.795	0.8818542311	7
Hand- operated spanners and wrenches (including torque meter wrenches but not including tap wrenches); interchangeable spanner sockets, with or without handles.	8204	Low technology manufactures: other products	Capital Intensive	BELOW	2089883.96	0.8815675478	7
Tools of two or more of the headings 82.02 to 82.05, put up in sets for retail sale.	8206	Low technology manufactures: other products	Capital Intensive	BELOW	1161036.716	0.8706399358	7
Plates, sticks, tips and the like for tools, unmounted, of cermets	8209	Low technology manufactures: other products	Capital Intensive	BELOW	3674496.872	0.8737221129	7
Padlocks and locks (key, combination or electrically operated), of base metal; clasps and frames with clasps, incorporating locks, of base metal; keys for any of the foregoing articles, of base metal.	8301	High technology manufactures: electronic and electrical	Machinery	BELOW	2141929.469	0.8741125776	7
Armoured or reinforced safes, strong-boxes and doors and safe deposit lockers for strong- rooms, cash or deed boxes and the like, of base metal.	8303	High technology manufactures: electronic and electrical	Machinery	BELOW	2366562.379	0.8711282771	7
Filing cabinets, card- index cabinets, paper trays, paper rests, pen trays, office- stamp stands and similar office or desk equipment, of base metal, other than office furniture of heading 94.03.	8304	High technology manufactures: electronic and electrical	Machinery	BELOW	1524936.495	0.8724792613	7
Bells, gongs and the like, non- electric, of base metal; statuettes and other ornaments, of base metal; photograph, picture or similar frames, of base metal; mirrors of base metal.	8306	High technology manufactures: electronic and electrical	Machinery	BELOW	1408711.275	0.8726351132	7
Stoppers, caps and lids (including crown corks, screw caps and pouring stoppers), capsules for bottles, threaded bungs, bung covers, seals and other packing accessories, of base metal.	8309	High technology manufactures: electronic and electrical	Machinery	BELOW	3102399.439	0.8775928041	7
Sign- plates, name- plates, address- plates and similar plates, numbers, letters and other symbols, of base metal, excluding those of heading 94.05.	8310	High technology manufactures: electronic and electrical	Machinery	BELOW	2192524.276	0.8775928041	7
Wire, rods, tubes, plates, electrodes and similar products, of base metal or of metal carbides, coated or cored with flux material, of a kind used for soldering, brazing, welding or deposition of metal or of metal carbides; wire and rods, of agglomerated base metal powder, used for metal spraying.	8311	High technology manufactures: electronic and electrical	Machinery	BELOW	2599414.862	0.8729867583	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Central heating boilers other than those of heading 84.02.	8403	High technology manufactures: electronic and electrical	Machinery	ABOVE	4048283.282	0.8668849402	7
Auxiliary plant for use with boilers of heading 84.02 or 84.03 (for example, economisers, super- heaters, soot removers, gas recoverers); condensers for steam or other vapour power units.	8404	High technology manufactures: electronic and electrical	Machinery	BELOW	2311015.895	0.8768957613	7
Other engines and motors	8412	High technology manufactures: electronic and electrical	Machinery	BELOW	2909642.52	0.8749877251	7
Air conditioning machines, comprising a motor- driven fan and elements for changing the temperature and humidity, including those machines in which the humidity cannot be separately regulated.	8415	High technology manufactures: electronic and electrical	Machinery	BELOW	2034044.239	0.8694233068	7
Industrial or laboratory furnaces and ovens, including incinerators, non- electric.	8417	High technology manufactures: electronic and electrical	Machinery	ABOVE	4191831.083	0.8737438876	7
Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 85.14), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non- electric	8419	High technology manufactures: electronic and electrical	Machinery	BELOW	2576710.729	0.8815313487	7
Mechanical appliances (whether or not handoperated) for projecting, dispersing or spraying liquids or powders; fire extinguishers, whether or not charged; spray guns and similar appliances; steam or sand blasting machines and similar jet projecting machines.	8424	High technology manufactures: electronic and electrical	Machinery	BELOW	2765737.583	0.8794168389	7
Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane.	8425	High technology manufactures: electronic and electrical	Machinery	BELOW	2613311.745	0.8815920437	7
Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane.	8426	High technology manufactures: electronic and electrical	Machinery	BELOW	3139809.037	0.8802984235	7
Other lifting, handling, loading or unloading machinery (for example, lifts, escalators, conveyors, teleferics).	8428	High technology manufactures: electronic and electrical	Machinery	ABOVE	4503250.984	0.8805053909	7
Milking machines and dairy machinery	8434	High technology manufactures: electronic and electrical	Machinery	ABOVE	5612262.542	0.8798500536	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Presses, crushers and similar machinery used in the manufacture of wine, cider, fruit juices or similar beverages.	8435	High technology manufactures: electronic and electrical	Machinery	BELOW	3771653.126	0.8698446423	7
Other agricultural, horticultural, forestry, poultry- keeping or bee-keeping machinery, including germination plant fitted with mechanical or thermal equipment; poultry incubators and brooders.	8436	High technology manufactures: electronic and electrical	Machinery	BELOW	3887971.252	0.8816873852	7
Other machinery for making up paper pulp, paper or paperboard, including cutting machines of all kinds.	8441	High technology manufactures: electronic and electrical	Machinery	BELOW	2215143.323	0.8806260879	7
Machinery, apparatus and equipment (other than the machines of headings 84.56 to 84.65), for preparing or making plates, cylinders or other printing components; plates, cylinders and other printing components; plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished).	8442	High technology manufactures: electronic and electrical	Machinery	BELOW	2881640.155	0.8798033294	7
Machines for preparing textile fibres; spinning, doubling or twisting machines and other machinery for producing textile yarns; textile reeling or winding (including wetwinding) machines and machines for preparing textile yarns for use on the machines of heading 84.46 or 84.47.	8445	High technology manufactures: electronic and electrical	Machinery	BELOW	1296344.236	0.8717807646	7
Knitting machines, stitch- bonding machines and machines for making gimped yarn, tulle, lace, embroidery, trimmings, braid or net and machines for tufting.	8447	High technology manufactures: electronic and electrical	Machinery	BELOW	921567.4309	0.8780730577	7
Machinery for the manufacture or finishing of felt or nonwovens in the piece or in shapes, including machinery for making felt hats; blocks for making hats.	8449	High technology manufactures: electronic and electrical	Machinery	BELOW	1153691.495	0.8821687864	7
Machinery (other than machines of heading 84.50) for washing, cleaning, wringing, drying, ironing, pressing (including fusing presses), bleaching, dyeing, dressing, finishing, coating or impregnating textile yarns, fabrics or made up textile articles and machines for applying the paste to the base fabric or other support used in the manufacture of floor coverings such as linoleum; machines for reeling, unreeling, folding, cutting or pinking textile fabrics.	8451	High technology manufactures: electronic and electrical	Machinery	BELOW	2129666.448	0.8771558831	7
Converters, ladles, ingot moulds and casting machines, of a kind used in metallurgy or in metal foundries.	8454	High technology manufactures: electronic and electrical	Machinery	BELOW	1851535.852	0.8776923508	7
Other machine- tools for working metal or cermets, without removing material.	8463	High technology manufactures: electronic and electrical	Machinery	BELOW	3697682.947	0.8745075716	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Machine- tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard rubber, hard plastics or similar hard materials.	8465	High technology manufactures: electronic and electrical	Machinery	BELOW	2516307.513	0.8724163191	7
Machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores or other mineral substances, in solid (including powder or paste) form; machinery for agglomerating, shaping or moulding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products in powder or paste form; machines for forming foundry moulds of sand.	8474	High technology manufactures: electronic and electrical	Machinery	BELOW	3649519.655	0.8699248177	7
Automatic goods- vending machines (for example, postage stamp, cigarette, food or beverage machines), including moneychanging machines.	8476	High technology manufactures: electronic and electrical	Machinery	BELOW	3493292.49	0.8810886765	7
Ball or roller bearings.	8482	High technology manufactures: electronic and electrical	Machinery	BELOW	2316360.546	0.8790937126	7
Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02.	8503	Medium technology manufactures: engineering	Machinery	BELOW	2687111.929	0.8670644478	7
Vacuum cleaners.	8508	Medium technology manufactures: engineering	Machinery	BELOW	1707712.852	0.8799951182	7
Electro- mechanical domestic appliances, with self- contained electric motor, other than vacuum cleaners of heading 85.08	8509	Medium technology manufactures: engineering	Machinery	BELOW	1711259.522	0.8688453566	7
Shavers, hair clippers and hair-removing appliances, with self- contained electric motor	8510	Medium technology manufactures: engineering	Machinery	BELOW	1997198.738	0.8756127167	7
Electrical ignition or starting equipment of a kind used for spark-ignition or compressionignition internal combustion engines (for example, ignition magnetos, magnetodynamos, ignition coils, sparking plugs and glow plugs, starter motors); generators (for example, dynamos, alternators) and cut- outs of a kind used in conjunction with such engines.	8511	Medium technology manufactures: engineering	Machinery	BELOW	2063561.088	0.8727042201	7
Electrical lighting or signalling equipment (excluding articles of heading 85.39), windscreen wipers, defrosters and demisters, of a kind used for cycles or motor vehicles.	8512	Medium technology manufactures: engineering	Machinery	BELOW	2426791.67	0.8788469001	7
Industrial or laboratory electric furnaces and ovens (including those functioning by induction or dielectric loss); other industrial or laboratory equipment for the heat treatment of materials by induction or dielectric loss.	8514	Medium technology manufactures: engineering	Machinery	BELOW	2167770.711	0.8815110271	7
Microphones and stands therefor; loudspeakers, whether or not mounted in their enclosures;	8518	Medium technology manufactures: engineering	Machinery	BELOW	2002668.652	0.8781620669	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
headphones and earphones, whether or not combined with a microphone, and sets consisting of a microphone and one or more loudspeakers; audio- frequency electric amplifiers; electric sound amplifier sets							
Sound recording or reproducing apparatus	8519	Medium technology manufactures: engineering	Machinery	BELOW	2148064.205	0.8824946198	7
Parts and accessories suitable for use solely or principally with the apparatus of headings 85.19 or 85.21.	8522	Medium technology manufactures: engineering	Machinery	BELOW	1707944.001	0.8745949308	7
Transmission apparatus for radiobroadcasting or television, whether or not incorporating reception apparatus or sound recording or reproducing apparatus; television cameras, digital cameras and video camera recorders	8525	Medium technology manufactures: engineering	Machinery	BELOW	2416277.355	0.8807490715	7
Reception apparatus for radio-broadcasting, whether or not combined, in the same housing, with sound recording or reproducing apparatus or a clock.	8527	Medium technology manufactures: engineering	Machinery	BELOW	1942859.579	0.880646747	7
Electrical signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields (other than those of heading 86.08).	8530	Medium technology manufactures: engineering	Machinery	BELOW	3472522.861	0.8815759868	7
Electric sound or visual signalling apparatus (for example, bells, sirens, indicator panels, burglar or fire alarms), other than those of heading 85.12 or 85.30.	8531	Medium technology manufactures: engineering	Machinery	BELOW	2607800.699	0.8671600956	7
Printed circuits.	8534	Medium technology manufactures: engineering	Machinery	BELOW	1308350.94	0.8784861481	7
Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 volts.	8535	Medium technology manufactures: engineering	Machinery	BELOW	2815201.18	0.8739277362	7
Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, relays, fuses, surge suppressors, plugs, sockets, lamp- holders and other connectors, junction boxes), for a voltage not exceeding 1,000 volts; connectors for optical fibres, optical fibre bundles or cables.	8536	Medium technology manufactures: engineering	Machinery	BELOW	2915521.183	0.878642874	7
Parts suitable for use solely or principally with the apparatus of heading 85.35, 85.36 or 85.37.	8538	Medium technology manufactures: engineering	Machinery	BELOW	2972789.564	0.8751721602	7
Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules	8541	Medium technology manufactures: engineering	Machinery	BELOW	1669738.053	0.8737662284	7

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
or made up into panels; lightemitting diodes(LED); mounted piezo- electric crystals.							
Carbon electrodes, carbon brushes, lamp carbons, battery carbons and other articles of graphite or other carbon, with or without metal, of a kind used for electrical purposes.	8545	Medium technology manufactures: engineering	Machinery	BELOW	2814016.697	0.8668631637	7
Electrical insulators of any material.	8546	Medium technology manufactures: engineering	Machinery	BELOW	2364873.796	0.8721617714	7
Insulating fittings for electrical machines, appliances or equipment, being fittings wholly of insulating material apart from any minor components of metal (for example, threaded sockets) incorporated during moulding solely for purposes of assembly, other than insulators of heading 85.46; electrical conduit tubing and joints therefor, of base metal lined with insulating material.	8547	Medium technology manufactures: engineering	Machinery	BELOW	2573379.777	0.8814894443	7
Self- propelled railway or tramway coaches, vans and trucks, other than those of heading 86.04.	8603	Medium technology manufactures: process	Machinery	BELOW	3411867.099	0.8813020732	7
Railway or tramway passenger coaches, not self- propelled; luggage vans, post office coaches and other special purpose railway or tramway coaches, not self- propelled (excluding those of heading 86.04)	8605	Medium technology manufactures: process	Machinery	BELOW	3133729.622	0.8758926804	7
Railway or tramway goods vans and wagons, not self- propelled.	8606	Medium technology manufactures: process	Machinery	BELOW	3242296.624	0.8656524589	7
Railway or tramway track fixtures and fittings; mechanical (including electromechanical) signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields; parts of the foregoing	8608	Medium technology manufactures: process	Machinery	BELOW	3880056.498	0.8824405192	7
Containers (including containers for the transport of fluids) specially designed and equipped for carriage by one or more modes of transport.	8609	Medium technology manufactures: process	Machinery	BELOW	1642179.168	0.8705968078	7
Motor vehicles for the transport of goods	8704	Medium technology manufactures: automotive	Machinery	BELOW	2297259.161	0.8691389831	7
Chassis fitted with engines, for the motor vehicles of headings 87.01 to 87.05.	8706	Medium technology manufactures: automotive	Machinery	BELOW	2627155.629	0.8688259183	7
Bodies (including cabs), for the motor vehicles of headings 87.01 to 87.05.	8707	Medium technology manufactures: automotive	Machinery	BELOW	3213648.289	0.8792036388	7
Tanks and other armoured fighting vehicles, motorised, whether or not fitted with weapons, and parts of such vehicles	8710	Medium technology manufactures: automotive	Machinery	BELOW	2610251.41	0.8754709863	7
Carriages for disabled persons, whether or not motorised or otherwise mechanically propelled.	8713	Medium technology manufactures: automotive	Machinery	BELOW	1547732.74	0.8804716082	7
Balloons and dirigibles; gliders, hang gliders and other non- powered aircraft.	8801	Medium technology manufactures: engineering	Machinery	ABOVE	4189358.909	0.8688275702	7

<b>Names</b>	<b>Codes</b>	<b>Lall Classification</b>	<b>Leamer's name</b>	<b>Prody above or below Pak Ave</b>	<b>Prody</b>	<b>Distance</b>	<b>Groups</b>
Parachutes (including dirigible parachutes and paragliders) and rotochutes; parts thereof and accessories thereto.	8804	Medium technology manufactures: engineering	Machinery	BELOW	3574644.585	0.8768183707	7
Aircraft launching gear; deck- arrestor or similar gear; ground flying trainers; parts of the foregoing articles	8805	Medium technology manufactures: engineering	Machinery	BELOW	2428155.362	0.8781418913	7
Yachts and other vessels for pleasure or sports; rowing boats and canoes.	8903	Medium technology manufactures: engineering	Machinery	ABOVE	30340554.63	0.8658206594	7
Spectacles, goggles and the like, corrective, protective or other.	9004	High technology manufactures: other	Machinery	BELOW	2110568.588	0.8729229651	7
Cinematographic cameras and projectors, whether or not incorporating sound recording or reproducing apparatus.	9007	High technology manufactures: other	Machinery	ABOVE	12654199.01	0.8746297614	7
Image projectors, other than cinematographic; photographic (other than cinematographic) enlargers and reducers.	9008	High technology manufactures: other	Machinery	BELOW	1691391.42	0.8815851788	7
Wrist- watches, pocket- watches and other watches, including stop- watches, with case of precious metal or of metal clad with precious metal.	9101	Medium technology manufactures: engineering	Machinery	ABOVE	14689557.1	0.8815616383	7
Instrument panel clocks and clocks of a similar type for vehicles, aircraft, spacecraft or vessels.	9104	Medium technology manufactures: engineering	Machinery	BELOW	2807133.154	0.8783787628	7
Time of day recording apparatus and apparatus for measuring, recording or otherwise indicating intervals of time, with clock or watch movement or with synchronous motor (for example, timeregisters, time- recorders).	9106	Medium technology manufactures: engineering	Machinery	BELOW	2348188.044	0.8705241926	7
Time switches with clock or watch movement or with synchronous motor.	9107	Medium technology manufactures: engineering	Machinery	BELOW	1536079.81	0.8669869568	7
Watch cases and parts thereof	9111	Medium technology manufactures: engineering	Machinery	ABOVE	6035304.114	0.8666392955	7
Clock cases and cases of a similar type for other goods of this Chapter, and parts thereof.	9112	Medium technology manufactures: engineering	Machinery	BELOW	1336243.087	0.8729521341	7
Revolvers and pistols, other than those of heading 93.03 or 93.04.	9302	Unclassified Products	-	ABOVE	8327735.414	0.8810027566	7
Other arms (for example, spring, air or gas guns and pistols, truncheons), excluding those of heading 93.07.	9304	Unclassified Products	-	BELOW	2529982.977	0.8710415802	7
Parts and accessories of articles of headings 93.01 to 93.04.	9305	Unclassified Products	-	BELOW	2776683.39	0.8678984745	7
Medical, surgical, dental or veterinary furniture (for example, operating tables, examination tables, hospital beds with mechanical fittings, dentists' chairs); barbers' chairs and similar chairs, having rotating as well as both reclining and elevating movements; parts of the foregoing articles.	9402	Low technology manufactures: other products	Labor Intensive	BELOW	2118180.787	0.8778178271	7
Video game consoles and machines, articles for funfair, table or parlour games, including pintables, billiards,	9504	Low technology manufactures: other products	Labor Intensive	BELOW	2778008.879	0.8707369512	7

Names	Codes Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
special tables for casino games and automatic bowling alley equipment.						
Roundabouts, swings, shooting galleries and other fairground amusements; travelling circuses and travelling menageries; travelling theatres.	9508 Low technology manufactures: other products	Labor Intensive	BELOW	3154748.178	0.8791962596	7
Hand sieves and hand riddles.	9604 High technology manufactures: electronic and electrical	Machinery	BELOW	1964024.678	0.879672356	7
Ball point pens; felt tipped and other poroustipped pens and markers; fountain pens, stylograph pens and other pens; duplicating stylos; propelling or sliding pencils; penholders, pencil- holders and similar holders; parts (including caps and clips) of the foregoing articles, other than those of heading 96.09.	9608 High technology manufactures: electronic and electrical	Machinery	BELOW	1943910.744	0.8731862446	7
Date, sealing or numbering stamps, and the like (including devices for printing or embossing labels), designed for operating in the hand; hand- operated composing sticks, and hand printing sets incorporating such composing sticks.	9611 High technology manufactures: electronic and electrical	Machinery	ABOVE	6076366.258	0.8760169888	7
Scent sprays and similar toilet sprays, and mounts and heads therefor; powder- puffs and pads for the application of cosmetics or toilet preparations.	9616 High technology manufactures: electronic and electrical	Machinery	BELOW	1205439.149	0.8792679656	7
Monopods, bipods, tripods and similar articles	9620 High technology manufactures: electronic and electrical	Machinery	BELOW	2642747.51	0.8671808335	7
Meat of swine, fresh, chilled or frozen.	203 Primary products	Animal Products	BELOW	3123099.585	0.88578552	8
Rye	1002 Primary Products	Cereals, etc.	ABOVE	18469177.33	0.8864615705	8
Flour, meal, powder, flakes, granules and pellets of potatoes	1105 Resource-based manufactures: agro-based	Cereals, etc.	BELOW	2838040.3	0.8899557729	8
Malt, whether or not roasted.	1107 Resource-based manufactures: agro-based	Cereals, etc.	ABOVE	6613764.698	0.8883977841	8
Wheat gluten, whether or not dried.	1109 Resource-based manufactures: agro-based	Cereals, etc.	BELOW	3072356.473	0.8870058182	8
Hop cones, fresh or dried, whether or not ground, powdered or in the form of pellets; lupulin.	1210 Primary Products	Cereals, etc.	BELOW	2651377.688	0.8891185051	8
Cobalt ores and concentrates	2605 Resource-based manufactures: other	Raw Materials	BELOW	1963846.664	0.8861340295	8
Peat (including peat litter), whether or not agglomerated.	2703 Resource-based manufactures: other	Raw Materials	ABOVE	12164641.26	0.8939338582	8
Coal gas, water gas, producer gas and similar gases, other than petroleum gases and other gaseous hydrocarbons.	2705 Resource-based manufactures: other	Raw Materials	BELOW	2770045.623	0.8880865804	8
Pitch and pitch coke, obtained from coal tar or from other mineral tars.	2708 Resource-based manufactures: other	Raw Materials	BELOW	1522198.683	0.896685794	8

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Hydroxide and peroxide of magnesium; oxides, hydroxides and peroxides, of strontium or barium.	2816	Resource-based manufactures: other	Chemical	BELOW	3199354.518	0.8967764242	8
Cobalt oxides and hydroxides; commercial cobalt oxides.	2822	Resource-based manufactures: other	Chemical	BELOW	1529295.582	0.883992725	8
Hydrazine and hydroxylamine and their inorganic salts; other inorganic bases; other metal oxides, hydroxides and peroxides.	2825	Resource-based manufactures: other	Chemical	BELOW	1589696.354	0.8873533288	8
Fluorides; fluorosilicates, fluoroaluminates and other complex fluorine salts.	2826	Resource-based manufactures: other	Chemical	BELOW	2135721.376	0.8858970262	8
Cyanides, cyanide oxides and complex cyanides.	2837	Resource-based manufactures: other	Chemical	BELOW	3379596.719	0.8959331155	8
Salts of oxometallic or peroxometallic acids	2841	Resource-based manufactures: other	Chemical	BELOW	1531514.077	0.897925949	8
Radioactive chemical elements and radioactive isotopes (including the fissile or fertile chemical elements and isotopes) and their compounds; mixtures and residues containing these products.	2844	Resource-based manufactures: other	Chemical	BELOW	1942568.61	0.8955908018	8
Isotopes other than those of heading 28.44; compounds, inorganic or organic, of such isotopes, whether or not chemically defined	2845	Resource-based manufactures: other	Chemical	BELOW	2224588.347	0.8923321429	8
Compounds, inorganic or organic, of rareearth metals, of yttrium or of scandium or of mixtures of these metals.	2846	Resource-based manufactures: other	Chemical	BELOW	2454498.015	0.8905501973	8
Hydrogen peroxide, whether or not solidified with urea.	2847	Resource-based manufactures: other	Chemical	BELOW	2791277.669	0.8915923225	8
Cyclic hydrocarbons.	2902	Resource-based manufactures: other	Chemical	ABOVE	7100674	0.8980384003	8
Halogenated derivatives of hydrocarbons.	2903	Resource-based manufactures: other	Chemical	BELOW	2104730.244	0.8910459576	8
Phenols; phenol- alcohols.	2907	Resource-based manufactures: other	Chemical	BELOW	2050083.959	0.8862956658	8
Halogenated, sulphonated, nitrated or nitrosated derivatives of phenols or phenolalcohols.	2908	Resource-based manufactures: other	Chemical	ABOVE	6559616.45	0.895991938	8
Ethers, ether- alcohols, ether-phenols, etheralcohol- phenols, alcohol peroxides, ether peroxides, ketone peroxides (whether or not chemically defined), and their halogenated, sulphonated, nitrated or nitrosated derivatives.	2909	Resource-based manufactures: other	Chemical	BELOW	2988754.085	0.88836336	8
Acetals and hemiacetals, whether or not with other oxygen function, and their halogenated, sulphonated, nitrated or nitrosated derivatives.	2911	Resource-based manufactures: other	Chemical	BELOW	1698802.542	0.8868621025	8
Aldehydes, whether or not with other oxygen function; cyclic polymers of aldehydes; paraformaldehyde.	2912	Resource-based manufactures: other	Chemical	BELOW	1395916.974	0.8853360754	8
Ketones and quinones, whether or not with other oxygen function, and their halogenated, sulphonated, nitrated or nitrosated derivatives.	2914	Resource-based manufactures: other	Chemical	BELOW	1678709.938	0.8938158897	8
Unsaturated acyclic monocarboxylic acids, cyclic monocarboxylic acids, their anhydrides, halides, peroxides	2916	Resource-based manufactures: other	Chemical	BELOW	1678560.851	0.8944142199	8

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives.							
Esters of other inorganic acids of non-metals (excluding esters of hydrogen halides) and their salts; their halogenated, sulphonated, nitrated or nitrosated derivatives.	2920	Resource-based manufactures: other	Chemical	BELOW	1825647.672	0.8987813118	8
Amine- function compounds.	2921	Resource-based manufactures: other	Chemical	BELOW	1764559.263	0.8927166407	8
Carboxyimide- function compounds (including saccharin and its salts) and imine- function compounds.	2925	Resource-based manufactures: other	Chemical	BELOW	1518828.184	0.8827990816	8
Organo- sulphur compounds.	2930	Resource-based manufactures: other	Chemical	BELOW	1357880.398	0.8975962672	8
Other organo- inorganic compounds.	2931	Resource-based manufactures: other	Chemical	BELOW	835672.1665	0.8963737736	8
Heterocyclic compounds with oxygen heteroatom(s) only.	2932	Resource-based manufactures: other	Chemical	BELOW	2005384.25	0.8869221143	8
Hormones, prostaglandins, thromboxanes and leukotrienes, natural or reproduced by synthesis; derivatives and structural analogues thereof, including chain modified polypeptides, used primarily as hormones.	2937	Resource-based manufactures: other	Chemical	ABOVE	6628746.267	0.8929334457	8
Sugars, chemically pure, other than sucrose, lactose, maltose, glucose and fructose; sugar ethers, sugar acetals and sugar esters, and their salts, other than products of heading 29.37, 29.38 or 29.39.	2940	Resource-based manufactures: other	Chemical	BELOW	2867636.347	0.8840973197	8
Human blood; animal blood prepared for therapeutic, prophylactic or diagnostic uses; antisera, other blood fractions and immunological products, whether or not modified or obtained by means of biotechnological processes; vaccines, toxins, cultures of micro-organisms (excluding yeasts) and similar products.	3002	High technology manufactures: other	Chemical	BELOW	3728936.387	0.8950228429	8
Other colouring matter; preparations as specified in Note 3 to this Chapter, other than those of heading 32.03, 32.04 or 32.05; inorganic products of a kind used as luminophores, whether or not chemically defined.	3206	Medium technology manufactures: process	Chemical	ABOVE	4259134.694	0.8858810522	8
Printing ink, writing or drawing ink and other inks, whether or not concentrated or solid.	3215	Medium technology manufactures: process	Chemical	ABOVE	3917418.39	0.8831834527	8
Albumins, (including concentrates of two or more whey proteins, containing by weight more than 80 % whey proteins, calculated on the dry matter), albuminates and other albumin derivatives	3502	Medium technology manufactures: process	Chemical	ABOVE	4787274.282	0.8847483051	8
Prepared glues and other prepared adhesives, not elsewhere specified or included; products suitable for use as glues or adhesives, put up for retail sale as glues or adhesives, not exceeding a net weight of 1 kg.	3506	Medium technology manufactures: process	Chemical	BELOW	1999759.192	0.8864598604	8

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Enzymes; prepared enzymes not elsewhere specified or included.	3507	Medium technology manufactures: process	Chemical	ABOVE	5582773.506	0.8943372548	8
Propellent powders	3601	Medium technology manufactures: process	Chemical	BELOW	3855172.652	0.8965281489	8
Photographic paper, paperboard and textiles, sensitised, unexposed.	3703	Medium technology manufactures: process	Machinery	BELOW	1863008.061	0.8904976626	8
Artificial graphite; colloidal or semi-colloidal graphite; preparations based on graphite or other carbon in the form of pastes, blocks, plates or other semi-manufactures.	3801	Medium technology manufactures: process	Chemical	BELOW	1435484.535	0.8853225637	8
Tall oil, whether or not refined.	3803	Medium technology manufactures: process	Chemical	ABOVE	4215881.027	0.888065081	8
Residual lyes from the manufacture of wood pulp, whether or not concentrated, desugared or chemically treated, including lignin sulphonates, but excluding tall oil of heading 38.03.	3804	Medium technology manufactures: process	Chemical	BELOW	2215824.103	0.8973286752	8
Pickling preparations for metal surfaces; fluxes and other auxiliary preparations for soldering, brazing or welding; soldering, brazing or welding powders and pastes consisting of metal and other materials; preparations of a kind used as cores or coatings for welding electrodes or rods.	3810	Medium technology manufactures: process	Chemical	BELOW	2021553.327	0.8973751851	8
Anti-knock preparations, oxidation inhibitors, gum inhibitors, viscosity improvers, anticorrosive preparations and other prepared additives for mineral oils (including gasoline) or for other liquids used for the same purposes as mineral oils.	3811	Medium technology manufactures: process	Chemical	BELOW	2292371.03	0.8865848877	8
Hydraulic brake fluids and other prepared liquids for hydraulic transmission, not containing or containing less than 70 % by weight of petroleum oils or oils obtained from bituminous minerals.	3819	Medium technology manufactures: process	Chemical	BELOW	2218065.056	0.8917159139	8
Anti-freezing preparations and prepared deicing fluids.	3820	Medium technology manufactures: process	Chemical	BELOW	3470560.619	0.8860829589	8
Prepared culture media for the development or maintenance of micro-organisms (including viruses and the like) or of plant, human or animal cells	3821	Medium technology manufactures: process	Chemical	ABOVE	20715577.95	0.8980882707	8
Diagnostic or laboratory reagents on a backing, prepared diagnostic or laboratory reagents whether or not on a backing, other than those of heading 30.02 or 30.06; certified reference materials.	3822	Medium technology manufactures: process	Chemical	BELOW	3249705.189	0.8992368098	8
Residual products of the chemical or allied industries, not elsewhere specified or included; municipal waste; sewage sludge; other wastes specified in Note 6 to this Chapter	3825	Medium technology manufactures: process	Chemical	ABOVE	8217185.279	0.8896233052	8
Polymers of vinyl acetate or of other vinyl esters, in primary forms; other vinyl polymers in primary forms.	3905	Medium technology manufactures: process	Chemical	BELOW	1948477.779	0.8864867491	8
Polyamides in primary forms	3908	Medium technology manufactures: process	Chemical	BELOW	1828880.004	0.8920595817	8

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Cellulose and its chemical derivatives, not elsewhere specified or included, in primary forms	3912	Medium technology manufactures: process	Chemical	BELOW	2012818.206	0.8845749279	8
Natural polymers (for example, alginic acid) and modified natural polymers (for example, hardened proteins, chemical derivatives of natural rubber), not elsewhere specified or included, in primary forms.	3913	Medium technology manufactures: process	Chemical	BELOW	3147376.773	0.8839050633	8
Ion- exchangers based on polymers of headings 39.01 to 39.13, in primary forms.	3914	Medium technology manufactures: process	Chemical	BELOW	3313665.108	0.8936575881	8
Self- adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, whether or not in rolls.	3919	Medium technology manufactures: process	Chemical	ABOVE	5167700.882	0.8945801278	8
Synthetic rubber and factice derived from oils, in primary forms or in plates, sheets or strip; mixtures of any product of heading 40.01 with any product of this heading, in primary forms or in plates, sheets or strip.	4002	Resource-based manufactures: agro-based	Capital Intensive	BELOW	1682873.303	0.8940358612	8
Other forms (for example, rods, tubes and profile shapes) and articles (for example, discs and rings), of unvulcanised rubber.	4006	Resource-based manufactures: agro-based	Capital Intensive	BELOW	2753555.396	0.8828938549	8
Railway or tramway sleepers (cross-ties) of wood.	4406	Resource-based manufactures: agro-based	Forest Products	BELOW	3832919.12	0.8901155808	8
Mechanical wood pulp.	4701	Resource-based manufactures: agro-based	Forest Products	ABOVE	11133314.52	0.8880403706	8
Yarn of coarse animal hair or of horsehair (including gimped horsehair yarn), whether or not put up for retail sale.	5110	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	3619421.851	0.8887853289	8
Artificial monofilament of 67 decitex or more and of which no cross-sectional dimension exceeds 1mm; strip and the like (for example, artificial straw) of artificial textile materials of an apparent width not exceeding 5 mm.	5405	Medium technology manufactures: process	Chemical	ABOVE	4615604.367	0.8836972216	8
Artificial filament tow.	5502	Medium technology manufactures: process	Cereals, etc.	BELOW	1972876.269	0.8900502215	8
Linoleum, whether or not cut to shape; floor coverings consisting of a coating or covering applied on a textile backing, whether or not cut to shape.	5904	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	1775801.62	0.8831198771	8
Textile hosepiping and similar textile tubing with or without lining, armour or accessories of other materials.	5909	Low technology manufactures: textile, garment and footwear	Capital Intensive	BELOW	2302349.557	0.8882610734	8
Knitted or crocheted fabrics of a width not exceeding 30 cm, other than those of heading 60.01 or 60.02.	6003	Low technology manufactures: textile, garment and footwear		BELOW	1567387.305	0.8834797926	8
Millstones, grindstones, grinding wheels and the like, without frameworks, for grinding, sharpening, polishing, trueing or cutting, hand sharpening or polishing stones, and parts thereof, of natural stone, of agglomerated natural or artificial	6804	Resource-based manufactures: other	Labor Intensive	BELOW	2629945.956	0.8832633072	8

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
abrasives, or of ceramics, with or without parts of other materials							
Natural or artificial abrasive powder or grain, on a base of textile material, of paper, of paperboard or of other materials, whether or not cut to shape or sewn or otherwise made up.	6805	Resource-based manufactures: other	Labor Intensive	BELOW	2735431.689	0.8900894029	8
Slag wool, rock wool and similar mineral wools; exfoliated vermiculite, expanded clays, foamed slag and similar expanded mineral materials; mixtures and articles of heat- insulating, sound- insulating or soundabsorbing mineral materials, other than those of heading 68.11 or 68.12 or of Chapter 69	6806	Resource-based manufactures: other	Labor Intensive	ABOVE	4199948.412	0.8891841137	8
Worked mica and articles of mica, including agglomerated or reconstituted mica, whether or not on a support of paper, paperboard or other materials.	6814	Resource-based manufactures: other	Labor Intensive	BELOW	2270049.076	0.8934636743	8
Ceramic pipes, conduits, guttering and pipe fittings.	6906	Low technology manufactures: other products	Labor Intensive	BELOW	2154743.278	0.8871147554	8
Ceramic wares for laboratory, chemical or other technical uses; ceramic troughs, tubs and similar receptacles of a kind used in agriculture; ceramic pots, jars and similar articles of a kind used for the conveyance or packing of goods	6909	Low technology manufactures: other products	Labor Intensive	BELOW	1704354.499	0.8914932282	8
Glass in balls (other than microspheres of heading 70.18), rods or tubes, unworked.	7002	Resource-based manufactures: other	Labor Intensive	BELOW	1450057.897	0.8872042962	8
Cast glass and rolled glass, in sheets or profiles, whether or not having an absorbent, reflecting or non-reflecting layer, but not otherwise worked.	7003	Resource-based manufactures: other	Labor Intensive	BELOW	1653747.479	0.8878213429	8
Glass envelopes (including bulbs and tubes), open, and glass parts thereof, without fittings, for electric lamps, cathode- ray tubes or the like.	7011	Resource-based manufactures: other	Labor Intensive	ABOVE	17131115.12	0.8920133992	8
Clock or watch glasses and similar glasses, glasses for non- corrective or corrective spectacles, curved, bent, hollowed or the like, not optically worked; hollow glass spheres and their segments, for the manufacture of such glasses	7015	Resource-based manufactures: other	Labor Intensive	BELOW	3204211.075	0.8825658167	8
Laboratory, hygienic or pharmaceutical glassware, whether or not graduated or calibrated.	7017	Resource-based manufactures: other	Labor Intensive	BELOW	2309057.04	0.8968081138	8
Dust and powder of natural or synthetic precious or semi- precious stones.	7105	Primary Products	Raw Materials	ABOVE	4471580.62	0.8862029664	8
Platinum, unwrought or in semimanufactured forms, or in powder form.	7110	Primary Products	Raw Materials	BELOW	2153304.275	0.8950285073	8
Base metals, silver or gold, clad with platinum, not further worked than semimanufactured.	7111	Primary Products	Raw Materials	BELOW	2854168.654	0.893025399	8
Coin	7118	Primary Products	Raw Materials	ABOVE	6906074.798	0.8993697456	8

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Granules and powders, of pig iron, spiegeleisen, iron or steel.	7205	Low technology manufactures: other products	Capital Intensive	BELOW	3183111.038	0.8853308356	8
Stainless steel in ingots or other primary forms; semi- finished products of stainless steel.	7218	Low technology manufactures: other products	Capital Intensive	BELOW	2036646.052	0.8913673952	8
Flat- rolled products of stainless steel, of a width of less than 600 mm.	7220	Low technology manufactures: other products	Capital Intensive	BELOW	2446449.321	0.8868421573	8
Railway or tramway track construction material of iron or steel, the following: rails, check- rails and rack rails, switch blades, crossing frogs, point rods and other crossing pieces, sleepers (cross- ties), fish- plates, chairs, chair wedges, sole plates (base plates), rail clips, bedplates, ties and other material specialized for jointing or fixing rails.	7302	Medium technology manufactures: process	Machinery	ABOVE	8493295.101	0.8898960776	8
Tubes, pipes and hollow profiles, seamless, of iron (other than cast iron) or steel.	7304	Medium technology manufactures: process	Machinery	BELOW	2406721.733	0.8836637429	8
Chain and parts thereof, of iron or steel.	7315	Medium technology manufactures: process	Machinery	BELOW	1781907.594	0.8845911325	8
Unwrought nickel.	7502	Resource-based manufactures: other	Raw Materials	ABOVE	4506966.613	0.8960276839	8
Nickel tubes, pipes and tube or pipe fittings (for example, couplings, elbows, sleeves).	7507	Resource-based manufactures: other	Raw Materials	BELOW	2370519.717	0.8899162849	8
Aluminium powders and flakes.	7603	Low technology manufactures: other products	Capital Intensive	BELOW	3326982.883	0.8849736287	8
Aluminium reservoirs tanks, vats and similar containers, for any material (other than compressed or liquefied gas), of a capacity exceeding 300 l, whether or not lined or heatinsulated, but not fitted with mechanical or thermal equipment.	7611	Low technology manufactures: other products	Capital Intensive	ABOVE	4108516.722	0.8861589212	8
Aluminium containers for compressed or liquefied gas.	7613	Low technology manufactures: other products	Capital Intensive	BELOW	3013141.868	0.8871387337	8
Tungsten (wolfram) and articles thereof, including waste and scrap.	8101	Resource-based manufactures: other	Raw Materials	BELOW	2181400.757	0.8830372094	8
Molybdenum and articles thereof, including waste and scrap.	8102	Resource-based manufactures: other	Raw Materials	BELOW	2396068.965	0.8958440645	8
Tantalum and articles thereof, including waste and scrap.	8103	Resource-based manufactures: other	Raw Materials	BELOW	1812089.819	0.8897709218	8
Bismuth and articles thereof, including waste and scrap.	8106	Resource-based manufactures: other	Raw Materials	BELOW	1180588.415	0.8924339145	8
Beryllium, chromium, germanium, vanadium, gallium, hafnium, indium, niobium (columbium), rhenium and thallium, and articles of these metals, including waste and scrap.	8112	Resource-based manufactures: other	Raw Materials	BELOW	2141526.018	0.8933922161	8
Hand saws; blades for saws of all kinds (including slitting, slotting or toothless saw blades).	8202	Low technology manufactures: other products	Capital Intensive	BELOW	2106714.253	0.8968405812	8
Nuclear reactors; fuel elements (cartridges), non- irradiated, for nuclear reactors; machinery and apparatus for isotopic separation.	8401	High technology manufactures: electronic and electrical	Machinery	BELOW	2575793.708	0.8977341854	8

<b>Names</b>	<b>Codes</b>	<b>Lall Classification</b>	<b>Leamer's name</b>	<b>Prody above or below Pak Ave</b>	<b>Prody</b>	<b>Distance</b>	<b>Groups</b>
Compression- ignition internal combustion piston engines (diesel or semi- diesel engines).	8408	High technology manufactures: electronic and electrical	Machinery	BELOW	2227947.577	0.8915088427	8
Furnace burners for liquid fuel, for pulverised solid fuel or for gas; mechanical stokers, including their mechanical grates, mechanical ash dischargers and similar appliances	8416	High technology manufactures: electronic and electrical	Machinery	ABOVE	4285956.595	0.8882088384	8
Weighing machinery (excluding balances of a sensitivity of 5 cg or better), including weight operated counting or checking machines; weighing machine weights of all kinds.	8423	High technology manufactures: electronic and electrical	Machinery	BELOW	2377221.057	0.8880394009	8
Self- propelled bulldozers, angledozers, graders, levellers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers	8429	High technology manufactures: electronic and electrical	Machinery	BELOW	2138394.558	0.8959889853	8
Book- binding machinery, including booksewing machines.	8440	High technology manufactures: electronic and electrical	Machinery	BELOW	3628868.164	0.8850402249	8
Machines for extruding, drawing, texturing or cutting man- made textile materials.	8444	High technology manufactures: electronic and electrical	Machinery	BELOW	1000877.556	0.897232535	8
Metal- rolling mills and rolls therefor	8455	High technology manufactures: electronic and electrical	Machinery	BELOW	2409702.056	0.8834465366	8
Machine- tools for working any material by removal of material, by laser or other light or photon beam, ultrasonic, electro- discharge, electro-chemical, electron beam, ionic- beam or plasma arc processes; water- jet cutting machines	8456	High technology manufactures: electronic and electrical	Machinery	BELOW	2532074.712	0.8927425685	8
Machine- tools (including way- type unit head machines) for drilling, boring, milling, threading or tapping by removing metal, other than lathes (including turning centres) of heading 84.58.	8459	High technology manufactures: electronic and electrical	Machinery	BELOW	2108632.787	0.8852530264	8
Machine- tools for deburring, sharpening, grinding, honing, lapping, polishing or otherwise finishing metal or cermets by means of grinding stones, abrasives or polishing products, other than gear cutting, gear grinding or gear finishing machines of heading 84.61.	8460	High technology manufactures: electronic and electrical	Machinery	BELOW	2100199.432	0.8917145045	8
Machine- tools for planing, shaping, slotting, broaching, gear cutting, gear grinding or gear finishing, sawing, cutting- off and other machine- tools working by removing metal or cermets, not elsewhere specified or included.	8461	High technology manufactures: electronic and electrical	Machinery	BELOW	1695689.895	0.8966488523	8
Machine- tools (including presses) for working metal by forging, hammering or diestamping; machine- tools (including presses) for working metal by bending, folding,	8462	High technology manufactures: electronic and electrical	Machinery	BELOW	2353354.179	0.8889870315	8

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
straightening, flattening, shearing, punching or notching; presses for working metal or metal carbides, not specified above.							
Machine- tools for working stone, ceramics, concrete, asbestos- cement or like mineral materials or for cold working glass.	8464	High technology manufactures: electronic and electrical	Machinery	BELOW	2264129.159	0.8896601209	8
Parts and accessories suitable for use solely or principally with the machines of headings 84.56 to 84.65, including work or tool holders, self- opening dieheads, dividing heads and other special attachments for the machines; tool holders for any type of tool for working in the hand.	8466	High technology manufactures: electronic and electrical	Machinery	BELOW	2697585.626	0.8984773348	8
Tools for working in the hand, pneumatic, hydraulic or with self- contained electric or non- electric motor.	8467	High technology manufactures: electronic and electrical	Machinery	BELOW	1952178.469	0.8935141642	8
Machinery and apparatus for soldering, brazing or welding, whether or not capable of cutting, other than those of heading 85.15; gas- operated surface tempering machines and appliances.	8468	High technology manufactures: electronic and electrical	Machinery	BELOW	2406427.982	0.8863863599	8
Other office machines (for example, hectograph or stencil duplicating machines, addressing machines, automatic banknote dispensers, coin- sorting machines, coincounting or wrapping machines, pencilsharpening machines, perforating or stapling machines).	8472	High technology manufactures: electronic and electrical	Machinery	BELOW	1836005.028	0.883882968	8
Parts and accessories (other than covers, carrying cases and the like) suitable for use solely or principally with machines of headings 84.70 to 84.72.	8473	High technology manufactures: electronic and electrical	Machinery	BELOW	1499926.54	0.8878291533	8
Machinery parts, not containing electrical connectors, insulators, coils, contacts or other electrical features, not specified or included elsewhere in this Chapter.	8487	High technology manufactures: electronic and electrical	Machinery	BELOW	2932528.302	0.886831986	8
Electro- magnets; permanent magnets and articles intended to become permanent magnets after magnetisation; electromagnetic or permanent magnet chucks, clamps and similar holding devices; electromagnetic couplings, clutches and brakes; electro- magnetic lifting heads.	8505	Medium technology manufactures: engineering	Machinery	BELOW	1608566.251	0.8893237381	8
Video recording or reproducing apparatus, whether or not incorporating a video tuner.	8521	Medium technology manufactures: engineering	Machinery	ABOVE	10567893.34	0.8906586395	8
Radar apparatus, radio navigational aid apparatus and radio remote control apparatus	8526	Medium technology manufactures: engineering	Machinery	BELOW	2952216.88	0.8933112435	8
Electrical capacitors, fixed, variable or adjustable (pre- set).	8532	Medium technology manufactures: engineering	Machinery	BELOW	1835493.89	0.8913390362	8

<b>Names</b>	<b>Codes</b>	<b>Lall Classification</b>	<b>Leamer's name</b>	<b>Prody above or below Pak Ave</b>	<b>Prody</b>	<b>Distance</b>	<b>Groups</b>
Electrical resistors (including rheostats and potentiometers), other than heating resistors	8533	Medium technology manufactures: engineering	Machinery	ABOVE	4519854.39	0.8990048642	8
Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17.	8537	Medium technology manufactures: engineering	Machinery	BELOW	3332343.84	0.8837354648	8
Electric filament or discharge lamps, including sealed beam lamp units and ultraviolet or infra- red lamps; arc- lamps; lightemitting diode (LED) lamps.	8539	Medium technology manufactures: engineering	Machinery	BELOW	1459803.088	0.8831709442	8
Electrical machines and apparatus, having individual functions, not specified or included elsewhere in this Chapter.	8543	Medium technology manufactures: engineering	Machinery	BELOW	1866054.281	0.8932801539	8
Rail locomotives powered from an external source of electricity or by electric accumulators.	8601	Medium technology manufactures: process	Machinery	BELOW	1880236.123	0.8899006707	8
Other rail locomotives; locomotive tenders	8602	Medium technology manufactures: process	Machinery	BELOW	2079216.505	0.8935653388	8
Railway or tramway maintenance or service vehicles, whether or not self-propelled (for example, workshops, cranes, ballast tampers, trackliners, testing coaches and track inspection vehicles).	8604	Medium technology manufactures: process	Machinery	BELOW	3735783.651	0.889992674	8
Parts of railway or tramway locomotives or rolling- stock	8607	Medium technology manufactures: process	Machinery	BELOW	3371693.368	0.8849814185	8
Works trucks, self- propelled, not fitted with lifting or handling equipment, of the type used in factories, warehouses, dock areas or airports for short distance transport of goods; tractors of the type used on railway station platforms; parts of the foregoing vehicles	8709	Medium technology manufactures: automotive	Machinery	BELOW	3223363.799	0.8933263672	8
Vessels and other floating structures for breaking up.	8908	Medium technology manufactures: engineering	Machinery	BELOW	2732893.649	0.8873122146	8
Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked.	9002	High technology manufactures: other	Machinery	BELOW	1887913.719	0.8964395692	8
Apparatus and equipment for photographic (including cinematographic) laboratories, not specified or included elsewhere in this Chapter; negatoscopes; projection screens	9010	High technology manufactures: other	Machinery	BELOW	3340983.445	0.8841931898	8
Surveying (including photogrammetrical surveying), hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and	9015	High technology manufactures: other	Machinery	ABOVE	6062346.98	0.8934477082	8

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
appliances, excluding compasses; rangefinders.							
Balances of a sensitivity of 5 cg or better, with or without weights.	9016	High technology manufactures: other	Machinery	BELOW	2283046.173	0.8939516893	8
Mechano- therapy appliances; massage apparatus; psychological aptitude- testing apparatus; ozone therapy, oxygen therapy, aerosol therapy, artificial respiration or other therapeutic respiration apparatus.	9019	High technology manufactures: other	Machinery	BELOW	2888682.282	0.8934481453	8
Other breathing appliances and gas masks, excluding protective masks having neither mechanical parts nor replaceable filters.	9020	High technology manufactures: other	Machinery	BELOW	3171874.408	0.8947987808	8
Hydrometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers, recording or not, and any combination of these instruments.	9025	High technology manufactures: other	Machinery	BELOW	3284943.028	0.8834559179	8
Revolution counters, production counters, taximeters, mileometers, pedometers and the like; speed indicators and tachometers, other than those of heading 90.14 or 90.15; stroboscopes.	9029	High technology manufactures: other	Machinery	BELOW	3580949.843	0.8920622756	8
Automatic regulating or controlling instruments and apparatus.	9032	High technology manufactures: other	Machinery	BELOW	2750312.135	0.8976372318	8
Parts and accessories (not specified or included elsewhere in this Chapter) for machines, appliances, instruments or apparatus of Chapter 90.	9033	High technology manufactures: other	Machinery	BELOW	3565878.172	0.8907074763	8
Other clocks.	9105	Medium technology manufactures: engineering	Machinery	BELOW	1150984.312	0.8833169046	8
Clock movements, complete and assembled.	9109	Medium technology manufactures: engineering	Machinery	BELOW	1387103.493	0.8834804768	8
Other clock or watch parts.	9114	Medium technology manufactures: engineering	Machinery	ABOVE	5101402.324	0.8836420853	8
Pianos, including automatic pianos; harpsichords and other keyboard stringed instruments.	9201	Low technology manufactures: other products	Labor Intensive	BELOW	2849170.116	0.8965213577	8
Musical instruments, the sound of which is produced, or must be amplified, electrically (for example, organs, guitars, accordions).	9207	Low technology manufactures: other products	Labor Intensive	BELOW	2329599.181	0.8914762641	8
Parts (for example, mechanisms for musical boxes) and accessories (for example, cards, discs and rolls for mechanical instruments) of musical instruments; metronomes, tuning forks and pitch pipes of all kinds.	9209	Low technology manufactures: other products	Labor Intensive	BELOW	1856872.096	0.8923221652	8
Typewriter or similar ribbons, inked or otherwise prepared for giving impressions, whether or not on spools or in cartridges; ink- pads, whether or not inked, with or without boxes.	9612	High technology manufactures: electronic and electrical	Machinery	BELOW	2079169.111	0.8848305692	8
Paintings, drawings and pastels, executed entirely by hand, other than drawings of heading 49.06 and other	9701	Unclassified products	Labor Intensive	BELOW	2616579.133	0.8930060693	8

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
than hand- painted or hand-decorated manufactured articles; collages and similar decorative plaques.							
Original sculptures and statuary, in any material.	9703	Unclassified products	Labor Intensive	BELOW	2411539.1	0.8891611075	8
Postage or revenue stamps, stampostmarks, first- day covers, postal stationery (stamped paper), and the like, used or unused, other than those of heading 49. 07.	9704	Unclassified products	Labor Intensive	ABOVE	3995752.643	0.8934367501	8
Lard stearin, lard oil, oleostearin, oleoil and tallow oil, not emulsified or mixed or otherwise prepared.	1503	Resource-based manufactures: other	Cereals, etc.	ABOVE	4530527.457	0.9031955326	9
Asbestos.	2524	Primary products	Raw Materials	BELOW	1386843.492	0.9005832994	9
Halides and halide oxides of non-metals.	2812	Resource-based manufactures: other	Chemical	BELOW	1096563.075	0.9162202051	9
Sulphides of non- metals; commercial phosphorus trisulphide.	2813	Resource-based manufactures: other	Chemical	BELOW	1829292.903	0.9143672446	9
Other salts of inorganic acids or peroxyacids (including aluminosilicates whether or not chemically defined), other than azides.	2842	Resource-based manufactures: other	Chemical	BELOW	1366633.134	0.8999784396	9
Hydrides, nitrides, azides, silicides and borides, whether or not chemically defined, other than compounds which are also carbides of heading 28.49.	2850	Resource-based manufactures: other	Chemical	BELOW	1273535.167	0.9057411603	9
Phosphides, whether or not chemically defined, excluding ferrophosphorus; other inorganic compounds (including distilled or conductivity water and water of similar purity); liquid air (whether or not rare gases have been removed); compressed air; amalgams, other than amalgams of precious metals.	2853	Resource-based manufactures: other	Chemical	BELOW	1378103.279	0.9073979189	9
Epoxides, epoxyalcohols, epoxyphenols and epoxyethers, with a three- membered ring, and their halogenated, sulphonated, nitrated or nitrosated derivatives.	2910	Resource-based manufactures: other	Chemical	BELOW	1819968.961	0.910691177	9
Phosphoric esters and their salts, including lactophosphates; their halogenated, sulphonated, nitrated or nitrosated derivatives.	2919	Resource-based manufactures: other	Chemical	BELOW	650892.3799	0.9080609464	9
Nitrile- function compounds.	2926	Resource-based manufactures: other	Chemical	BELOW	1016075.295	0.9051958789	9
Compounds with other nitrogen function.	2929	Resource-based manufactures: other	Chemical	BELOW	1799221.515	0.9061186951	9
Lubricating preparations (including cuttingoil preparations, bolt or nut release preparations, anti- rust or anti-corrosion preparations and mould release preparations, based on lubricants) and preparations of a kind used for the oil or grease treatment of textile materials, leather, furskins or other materials, but excluding preparations containing, as basic constituents, 70 % or more by weight	3403	Medium technology manufactures: process	Chemical	BELOW	2324687.173	0.9023603699	9

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
of petroleum oils or of oils obtained from bituminous minerals.							
Photographic plates and film in the flat, sensitised, unexposed, of any material other than paper, paperboard or textiles; instant print film in the flat, sensitised, unexposed, whether or not in packs.	3701	Medium technology manufactures: process	Machinery	BELOW	1652165.581	0.9035696882	9
Photographic film in rolls, sensitised, unexposed, of any material other than paper, paperboard or textiles; instant print film in rolls, sensitised, unexposed.	3702	Medium technology manufactures: process	Machinery	BELOW	1483777.137	0.9118259	9
Wood tar; wood tar oils; wood creosote; wood naphtha; vegetable pitch; brewers' pitch and similar preparations based on rosin, resin acids or on vegetable pitch.	3807	Medium technology manufactures: process	Chemical	ABOVE	4717448.548	0.9045716847	9
Chemical elements doped for use in electronics, in the form of discs, wafers or similar forms; chemical compounds doped for use in electronics.	3818	Medium technology manufactures: process	Chemical	BELOW	1264326.895	0.9109161257	9
Silicones in primary forms.	3910	Medium technology manufactures: process	Chemical	BELOW	1461369.956	0.9024063847	9
Petroleum resins, coumarone- indene resins, polyterpenes, polysulphides, polysulphones and other products specified in Note 3 to this Chapter, not elsewhere specified or included, in primary forms.	3911	Medium technology manufactures: process	Chemical	BELOW	1780797.955	0.9018241206	9
Chemical wood pulp, sulphite, other than dissolving grades.	4704	Resource-based manufactures: agro-based	Forest Products	BELOW	1778159.077	0.9152097184	9
Wood pulp obtained by a combination of mechanical and chemical pulping processes	4705	Resource-based manufactures: agro-based	Forest Products	ABOVE	7231278.11	0.9023910277	9
Newsprint, in rolls or sheets	4801	Resource-based manufactures: agro-based	Forest Products	BELOW	2972408.128	0.9025696642	9
Vegetable parchment, greaseproof papers, tracing papers and glassine and other glazed transparent or translucent papers, in rolls or sheets.	4806	Resource-based manufactures: agro-based	Forest Products	ABOVE	4858051.438	0.9010304596	9
Music, printed or in manuscript, whether or not bound or illustrated.	4904	Unclassified products	Labor Intensive	BELOW	1582177.317	0.9133425193	9
Drawn glass and blown glass, in sheets, whether or not having an absorbent, reflecting or non-reflecting layer, but not otherwise worked.	7004	Resource-based manufactures: other	Labor Intensive	BELOW	1870615.002	0.9053546235	9
Glass of heading 70.03, 70.04 or 70.05, bent, edgeworked, engraved, drilled, enamelled or otherwise worked, but not framed or fitted with other materials.	7006	Resource-based manufactures: other	Labor Intensive	BELOW	1522883.316	0.9092575998	9
Signalling glassware and optical elements of glass (other than those of heading 70.15), not optically worked.	7014	Resource-based manufactures: other	Labor Intensive	BELOW	1328858.911	0.9112659336	9
Base metals clad with silver, not further worked than semi-manufactured.	7107	Primary Products	Raw Materials	BELOW	1266390.072	0.906121091	9

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
Base metals or silver, clad with gold, not further worked than semi-manufactured.	7109	Primary Products	Raw Materials	BELOW	2336488.241	0.9012104872	9
Flat-rolled products of other alloy steel, of a width of less than 600 mm.	7226	Low technology manufactures: other products	Capital Intensive	BELOW	2762913.46	0.8999456272	9
Copper powders and flakes.	7406	Resource-based manufactures: other	Raw Materials	BELOW	2356210.821	0.9033943317	9
Copper foil (whether or not printed or backed with paper, paperboard, plastics or similar backing materials), of a thickness (excluding any backing) not exceeding 0.15 mm.	7410	Resource-based manufactures: other	Raw Materials	ABOVE	4127704.416	0.9056368811	9
Nickel powders and flakes.	7504	Resource-based manufactures: other	Raw Materials	BELOW	2807747.812	0.9007955224	9
Nickel bars, rods, profiles and wire.	7505	Resource-based manufactures: other	Raw Materials	BELOW	2481384.64	0.9023927093	9
Nickel plates, sheets, strip and foil.	7506	Resource-based manufactures: other	Raw Materials	BELOW	1479358.323	0.9166672606	9
Other articles of nickel	7508	Resource-based manufactures: other	Raw Materials	BELOW	1993572.887	0.9099096559	9
Titanium and articles thereof, including waste and scrap	8108	Resource-based manufactures: other	Raw Materials	BELOW	1935534.182	0.9036052096	9
Zirconium and articles thereof, including waste and scrap.	8109	Resource-based manufactures: other	Raw Materials	BELOW	1491747.401	0.9101492498	9
Cermets and articles thereof, including waste and scrap	8113	Resource-based manufactures: other	Raw Materials	ABOVE	4244374.26	0.9109312155	9
Calendering or other rolling machines, other than for metals or glass, and cylinders therefor	8420	High technology manufactures: electronic and electrical	Machinery	BELOW	1866568.55	0.9011255758	9
Fork- lift trucks; other works trucks fitted with lifting or handling equipment.	8427	High technology manufactures: electronic and electrical	Machinery	BELOW	3065948.412	0.905985047	9
Machinery for making pulp of fibrous cellulosic material or for making or finishing paper or paperboard.	8439	High technology manufactures: electronic and electrical	Machinery	ABOVE	5097336.425	0.9032945866	9
Machining centres, unit construction machines (single station) and multi-station transfer machines, for working metal.	8457	High technology manufactures: electronic and electrical	Machinery	BELOW	2232622.726	0.9083070027	9
Machines for assembling electric or electronic lamps, tubes or valves or flashbulbs, in glass envelopes; machines for manufacturing or hot working glass or glassware.	8475	High technology manufactures: electronic and electrical	Machinery	BELOW	3221042.983	0.9017961015	9
Electric (including electrically heated gas), laser or other light or photon beam, ultrasonic, electron beam, magnetic pulse or plasma arc soldering, brazing or welding machines and apparatus, whether or not capable of cutting; electric machines and apparatus for hot spraying of metals or cermets.	8515	Medium technology manufactures: engineering	Machinery	BELOW	2425908.726	0.9052474631	9
Discs, tapes, solid- state non- volatile storage devices, "smart cards" and other media for the recording of sound or of other phenomena, whether or not recorded, including	8523	Medium technology manufactures: engineering	Machinery	BELOW	2092170.503	0.9095550435	9

Names	Codes	Lall Classification	Leamer's name	Prody above or below Pak Ave	Prody	Distance	Groups
matrices and masters for the production of discs, but excluding products of Chapter 37.							
Thermionic, cold cathode or photo-cathode valves and tubes (for example, vacuum or vapour or gas filled valves and tubes, mercury arc rectifying valves and tubes, cathode-ray tubes, television camera tubes).	8540	Medium technology manufactures: engineering	Machinery	BELOW	2047597.603	0.9067096386	9
Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked.	9001	High technology manufactures: other	Machinery	BELOW	2558813.514	0.9047457966	9
Liquid crystal devices not constituting articles provided for more specifically in other headings; lasers, other than laser diodes; other optical appliances and instruments, not specified or included elsewhere in this Chapter.	9013	High technology manufactures: other	Machinery	BELOW	1047405.507	0.9043759681	9
Direction finding compasses; other navigational instruments and appliances.	9014	High technology manufactures: other	Machinery	BELOW	2790947.595	0.903768176	9
Drawing, marking- out or mathematical calculating instruments (for example, drafting machines, pantographs, protractors, drawing sets, slide rules, disc calculators); instruments for measuring length, for use in the hand (for example, measuring rods and tapes, micrometers, callipers), not specified or included elsewhere in this Chapter.	9017	High technology manufactures: other	Machinery	BELOW	1559996.466	0.9050043253	9
Instruments, apparatus and models, designed for demonstrational purposes (for example, in education or exhibitions), unsuitable for other uses.	9023	High technology manufactures: other	Machinery	BELOW	2499720.364	0.8999186151	9
Machines and appliances for testing the hardness, strength, compressibility, elasticity or other mechanical properties of materials (for example, metals, wood, textiles, paper, plastics).	9024	High technology manufactures: other	Machinery	BELOW	2302397.624	0.9056207018	9
Measuring or checking instruments, appliances and machines, not specified or included elsewhere in this Chapter; profile projectors.	9031	High technology manufactures: other	Machinery	ABOVE	4070012.289	0.9071423028	9
Complete watch or clock movements, unassembled or partly assembled (movement sets); incomplete watch or clock movements, assembled; rough watch or clock movements.	9110	Medium technology manufactures: engineering	Machinery	BELOW	2404742.725	0.9083773943	9
Original engravings, prints and lithographs	9702	Unclassified products	Labor Intensive	BELOW	2299322.659	0.9066969064	9
Collections and collectors' pieces of zoological, botanical, mineralogical, anatomical, historical,	9705	Unclassified products	Labor Intensive	BELOW	2812903.951	0.9003081412	9

<b>Names</b>	<b>Codes</b>	<b>Lall Classification</b>	<b>Leamer's name</b>	<b>Prody above or below Pak Ave</b>	<b>Prody</b>	<b>Distance</b>	<b>Groups</b>
archaeological, palaeontological, ethnographic or numismatic interest.							
Antiques of an age exceeding one hundred years.	9706	Unclassified products	Labor Intensive	BELOW	2201481.065	0.9086879709	9
Colloidal precious metals; inorganic or organic compounds of precious metals, whether or not chemically defined; amalgams of precious metals.	2843	Resource-based manufactures: other	Chemical	BELOW	1552481.615	0.9317543503	10
Photographic plates and film, exposed and developed, other than cinematographic film.	3705	Medium technology manufactures: process	Machinery	BELOW	1516424.831	0.9339289795	10
Chemical preparations for photographic uses (other than varnishes, glues, adhesives and similar preparations); unmixed products for photographic uses, put up in measured portions or put up for retail sale in a form ready for use.	3707	Medium technology manufactures: process	Machinery	BELOW	1432333.679	0.9191854038	10
Knives and cutting blades, for machines or for mechanical appliances.	8208	Low technology manufactures: other products	Capital Intensive	BELOW	3497104.796	0.9274722275	10
Machines and apparatus of a kind used solely or principally for the manufacture of semiconductor boules or wafers, semiconductor devices, electronic integrated circuits or flat panel displays; machines and apparatus specified in Note 9 (c) to this Chapter; parts and accessories	8486	High technology manufactures: electronic and electrical	Machinery	BELOW	1904181.208	0.9239631161	10
Electronic integrated circuits.	8542	Medium technology manufactures: engineering	Machinery	BELOW	1985833.387	0.9181952346	10
Compound optical microscopes, including those for photomicrography, cinephotomicrography or microprojection	9011	High technology manufactures: other	Machinery	BELOW	1880546.531	0.9225738851	10
Microscopes other than optical microscopes; diffraction apparatus.	9012	High technology manufactures: other	Machinery	BELOW	2279646.317	0.9276672393	10
Watch movements, complete and assembled.	9108	Medium technology manufactures: engineering	Machinery	BELOW	2129438.797	0.9281633703	10



The Lahore School of Economics was established in 1993 as a private, non-profit university with the goal of developing world class teaching and research in Pakistan. The objectives of the LSE are to prepare young Pakistanis to undertake research in economics, finance, banking, business management, industry, and development, in order to deepen their understanding of, and be able to productively contribute to, the major issues and policies that impact Pakistan and Asia at large.

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The ITC produces consumer reports, working papers and other outputs as part of the LSE's overall publication programme, which also comprises of the Lahore Journal of Economics, Lahore Journal of Policy Studies, Lahore Journal of Business, a textbook series, Lahore School Case Study Journal, the CREB Working Paper Series, and CREB Policy Paper Series. The LSE strongly encourages both in-house and external contributors.



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