REPORT ON BASE YEAR REVISION FOR MERCHANDISE TRADE INDICES

REVISING INDIAN TRADE INDICES

FEBRUARY 2026

Acknowledgment

The Directorate General of Commercial Intelligence and Statistics (DGCI&S) constituted a Committee for the revision of the base year of the Merchandise Trade Indices under the chairmanship of Prof. Nachiketa Chattopadhyay, Head, Sampling and Offficial Statistics Unit, Indian Statistical Institute (ISI), Kolkata. The Committee was mandated to revise the existing base year and to suggest methodological improvements, wherever required, for the compilation of India's trade indices in line with evolving trade dynamics.

The Committee places on record its sincere gratitude to the National Accounts Division (NAD), Ministry of Statistics and Programme Implementation (MoSP&I), for its expert advice and overall guidance in finalising the Committee's recommendations. The valuable contributions and constructive suggestions made by all the Members of the Committee during the course of deliberations are also gratefully acknowledged.

The Committee further acknowledges the guidance and support extended by Dr. Khundrakpam Manao Singh, Director General, DGCI&S; Dr. Bandana Sen, former Director General, DGCI&S; and Ms. Debanjana Datta, Deputy Director General, DGCI&S; and Shri Piyush Kumar Sing, Deputy Director,DGCI&S, as well as the dedicated efforts of Shri Swarnangshu Nandi, Data Processing Assistant, DGCI&S, in the selection of the revised base year and in the compilation, processing, and validation of the trade data required for the preparation of trade indices with the revised base year.

The Committee places on record its special appreciation for **Shri Biplab Sarkar, Deputy Director, DGCI&S**, for his rigorous and sustained efforts in carrying out the analytical exercises related to the revision of the base year. His meticulous approach, detailed examination of results, and consistent presentation of findings at various stages contributed significantly to informed deliberations and the successful completion of the work.

Finally, the Committee extends its sincere thanks to all those who were directly or indirectly associated with its work and contributed to the successful accomplishment of its objectives.

N. Chattopadhyay

(Nachiketa Chattopadhyay)
Chairman

Recommendation of the Committee

6TH FEBRUARY 2026

Sub: Recommendation of the Committee for Selection of Base Year for Merchandise Trade Indices of India and change(s) of Methodology, if required, for the computation of Indices based on selected Base Year–reg.

In view of structural changes in the economy, shifts in commodity composition, evolving trading patterns, and the need to ensure consistency with other official economic indicators, the Directorate General of Commercial Intelligence and Statistics (DGCI&S) constituted a Committee on 14th May 2025 under the Chairmanship of Prof. Nachiketa Chattopadhyay, Head, Sampling and Offficial Statistics Unit, Indian Statistical Institute, Kolkata, to examine the revision of the base year of India's Merchandise Trade Indices. The Committee was also mandated to review the existing compilation methodology and to recommend suitable improvements in line with international best practices.

The Committee was entrusted, inter alia, with the tasks of selecting an appropriate new base year, reviewing the coverage and classification of commodities, revising weights, assessing data sources, and suggesting methodological refinements for the compilation of the Merchandise Trade Indices of India. In pursuance of its mandate, the Committee held a series of meetings and undertook a detailed examination of the available data, existing compilation practices, and associated methodological issues.

Based on its deliberations, the Committee has finalised its recommendations relating to the revision of the base year and the revised framework for the compilation of the Merchandise Trade Indices of India using the new base year i.e FY 2022–23. The present report sets out the background, approach, and recommendations of the Committee. The recommendations contained herein are intended to enhance the relevance, reliability, and analytical usefulness of the Merchandise Trade Indices of India for policymakers, researchers, and other stakeholders. Accordingly, the Report of the Committee is submitted herewith.

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N. Sangeetha
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Member

(Shri Rajesh Kumar Sharma)
Member

Subhajit Roy
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1 Executive Summary

1. The Directorate General of Commercial Intelligence & Statistics (DGCI&S), Ministry of Commerce, Government of India, published quarterly Merchandise Trade Indices during March 1990 to March 2008 using the Fisher chain-based formula with 1978–79 as the base year. Subsequently, during FY 2008–09 to FY 2018–19, monthly, quarterly, and annual trade indices were compiled using a chain-base system with the Fisher Ideal Index formula and 1999–2000 as the base year, following the recommendations of the Technical Advisory Committee chaired by Dr. S. K. Nath, then Director General, CSO (report published in 2008). From FY 2019–20 onwards, DGCI&S has been publishing monthly, quarterly, and annual trade indices using a Laspeyres type fixed-weight formula with 2012–13 as the base year, based on the methodology recommended in the ISI, Kolkata report titled "Revising Indian Trade Indices: A Suggested Methodology" (July 2017), chaired by Professor Nachiketa Chattopadhyay.

   As per the guidelines of the United Nations Statistics Division (UNSD), particularly those outlined in the International Merchandise Trade Statistics: Concepts and Definitions (IMTS 2010) and the Producer Price Index (PPI) and Export–Import Price Index (XMPPI) Manuals, national statistical offices are advised to revise the base year of price and volume indices at regular intervals—preferably every five years—to ensure that index weights, commodity baskets, and price structures remain representative of the current economic reality. Regular base year revision is recommended to account for structural changes in the economy, shifts in trade composition, emergence of new commodities, changes in relative prices, and evolving production and consumption patterns.

   Over the last ten financial years, India's trade has undergone significant structural changes due to diversification of exports, import substitution, changes in domestic production structures, and other macroeconomic developments. In this context, the continued use of 2012–13 as the base year no longer provides an accurate representation of the prevailing trade structure. Accordingly, a review and revision of the base year is warranted in line with UNSD recommendations and international best practices.

2. A methodology for selecting the base year from among the last three candidate years (2022–23 to 2024–25) has been developed. The candidate years 2020–21 and 2021–22 were excluded considering the global impact of the COVID-19 pandemic during those years.

3. For Base Year selection methodology, for proper comparison, a selection of Commodities has been made to get a Common Commodity Basket by including any commodity, which has at least two transactions in a particular month over the three candidate base years.

4. For Export, among 11695 commodities (HS Codes at 8-digit level), only 7676 commodities have been found to satisfy the eligibility criteria to be in the common commodity basket. Similarly, for import, among 10978 commodities, only 6506 commodities are found to be in common commodity basket.

5. Among the common commodity basket for both the export and import, only about 2% imputations of unit values were required over the three candidate base years, which was necessary to implement the methodology of selection of the base year.

6. Linear and log-linear models were evaluated for goodness of fit. For 97% of HS Codes, the linear model yielded a lower Mean Squared Error (MSE) for both exports and imports. The linear trend was then used to estimate the residuals in the unit values for each HS Codes across the three candidate base years, for comparing the extent of variation resulting from the choice of the candidate base years. A slightly modified approach for the selection of the base year was adopted, taking into account the nature of variation in the data.

7. Based on the results of the analysis, the year 2022–23 has been recommended as the base year for future trade index calculations, coinciding with the base year choosen by the National Accounts Division (NAD), MOSP&I.

2 Introduction

An Index is a quantitative measure of the difference in a set of associated variables under two different circumstances. Set of variables could be prices of a given set of commodities, the production volumes in various sections of an industry etc. Two different circumstances could be two different times, two different locations etc. Index numbers are the indicators that indicate changes over a given period of time in relation to prices of various commodities, industrial production, sales and purchases, exports and imports, cost of living, etc. Such indicators are valuable review as well as management tools of current economic positions and planning formulation. Some of the key indices such as Merchandise Trade Indices (Export and Import Price Index), Wholesale Price Index (WPI), Index of Industrial Production (IIP), Consumer Price Index (CPI), etc. provide a fairly good idea of what is taking place in the economy. Among the price indices in India, Merchandise Trade Indices (Export and Import Price Index) is compiled, computed and released on monthly, quarterly and yearly basis by the Directorate General of Commercial Intelligence & Statistics (DGCI&S), Ministry of Commerce, Government of India.

Price index number is a concise indicator of the percentage or proportionate change over time in a group of prices. The export and import price indices capture the total change in the price element of goods and services transactions between the residents of an economic territory and residents elsewhere in the world. The prices of various goods and services all do not increase at the same rate. A price index therefore distills their movement by averaging across them. Export price indices track changes in the prices of the goods and services offered by the residents of a particular economic territory (typically, country) and consumed by nonresidents (i.e., the rest of the world). Import price indices track changes in the prices of the goods and services supplied by nonresidents (rest of the world) and consumed by residents of the economic area.

Price indices ideally weight the price relative (change) of each individual item they represent by the item's value share. For instance, an Export price index is a weighted average of the price relatives of its items where the weights are the proportion of each item in the aggregate value of exports covered by the index. Price relatives can be in the form of ratio of prices of the current and price reference period of specified representative goods with detailed description of the commodities, so that like items are compared with like. Such price relatives and unit values for commodity groups will generally be available only from customs declarations.

3 Historical Background

Directorate General of Commercial Intelligence & Statistics (DGCI&S), Ministry of Commerce, Government of India used to publish quarterly merchandise trade indices during the period from March 1990 to March 2008 using Fisher Chain based formula with FY 1978-79 as base year. Thereafter, a technical advisory committee under the Chairmanship of Dr. S. K. Nath, the then Director General, CSO was constituted in the year 2006 and the report was published in 2008. Based on the recommended methodology, since FY 2008-09 this Directorate has been publishing monthly and quarterly trade indices using Chain Base System using Fisher Ideal Index number formula with FY 1999-2000 as base year. For the period FY 2010-11, yearly trade indices were published which are available at Annual Report 2010-11. From 2011-12 to 2018-19, monthly, quarterly and yearly trade indices were published using Chain Base System with Fisher Ideal Index number formula with FY 1999-2000 as base year. From 2019-20 onward, monthly, quarterly and yearly trade indices is being published regularly using a Laspeyres' type fixed weight formula with base year 2012-13. The methodology was adopted by DGCI&S based on the report "Revising Indian Trade Indices: A Suggested Methodology" of ISI, Kolkata under the Chairmanship of Professor Nachiketa Chattopadhyay, submitted in JULY 2017.

4 Importance of Merchandise Trade Indices

Indices of merchandise trade are important when it comes to comprehending and analyzing trade across international borders. They assist policymakers, economists, as well as companies in evaluating how the volumes and prices of goods being traded evolve over time. Their significance can be put across as follows:

(a) **Measure of Competitiveness** – Export and import price indices reflect the level of competitiveness of a nation's products in international markets by providing evidence of whether prices are increasing more or less rapidly than trading partners.

(b) **Inflation Analysis** – Import price indices usually measure imported inflation, as increasing import prices can drive up domestic costs and consumer prices.

(c) **Policy Making** – Governments and central banks employ these indices to make well-informed choices about trade, tariff policies, and monetary actions.

(d) **Balance of Payments Analysis** – Trade indices yield useful feedback while compiling the balance of payments and examining the terms of trade (the relative prices of exports and imports).

(e) **Business Planning** – Importers and exporters utilize trade indices to predict market situations, determine pricing strategies, and facilitate risk management.

(f) **Economic Performance Indicator** – Merchandise trade indices are indicators of underlying economic trends, including changes in demand, supply chain shifts, and the effect of global events on trade flows.

In brief, merchandise trade indices are vital instruments for monitoring trade dynamics, informing economic policy, and facilitating business strategy in a more integrated global economy.

5 Need for Revision of Base Year

As per the guidelines of the United Nations Statistics Division (UNSD) for national statistical offices, the base year of indices should be revised at regular intervals, preferably every five years, to accurately reflect the prevailing economic structure. At present, the Directorate General of Commercial Intelligence & Statistics (DGCI&S), Ministry of Commerce, compiles and disseminates monthly, quarterly, and annual Merchandise Trade Indices on its website using the Laspeyres fixed-base formula with 2012–13 as the base year, which has become increasingly distant from the current economic scenario.

Over the past decade, India's trade sector has witnessed significant structural changes owing to diversification of the export basket, import substitution, shifts in domestic production patterns, and other related economic developments. In view of these changes, revision of the existing base year of the Merchandise Trade Indices has become imperative. Accordingly, DGCI&S undertook the revision of the base year and a review of the existing index compilation methodology to ensure alignment with recent developments in index number theory and internationally accepted best practices.

6 Formation of the Technical Committee

Merchandise Trade Indices is an important indicator for policy makers. Since the revision of base year of the Trade Indices entails many critical aspects, a technical committee was constituted under the Chairmanship of Prof. Nachiketa Chattopadhyay, Head, SOSU, Indian Statistical Institute, Kolkata. The committee was given the following mandates:

(i) Selection of a suitable Base Year for Merchandise Trade Indices of India

(ii) Change(s) of Methodology, if required, for the computation of Indices based on selected Base Year, for base revision exercise in the context of international practices.

The members of the committee are as follows:

Table 1: Composition of the Committee

Serial No.	**Name of the Person**	**Designation**
1	Prof. Nachiketa Chattopadhyay, Head, SOSU, Indian Statistical Institute, Kolkata	Chairman
2	Smt. N Sangeetha, DDG, DGCI&S, Kolkata	Member
3	Shri Rajesh Kumar Sharma, DDG, National Account Division, MOSP&I	Member
4	Shri Subhajit Roy, Director, DGCI&S, Kolkata	Member
5	Shri Srijan Acharya, Joint Director, DGCI&S, Kolkata	Member
6	Shri Biplab Sarkar, Deputy Director, DGCI&S, Kolkata	Member–Secretary

7 Criteria for candidate years to be considered for Base Year selection

For selection of the base year, the following criteria were considered:

(a) a normal year i.e. a year in which there are no abnormalities in the level of production, trade and in the price level and price variations due to natural calamities, changes in national & international policies and other extraordinary situations.

(b) a year for which reliable data are available and ;

(c) a year which is as recent as possible and comparable with other data series at national and state level.

To decide which suitable candidate years would be considered for the purpose of base year selection, a study of recent fiscal trends was carried out. It was noted that the list of commodity codes had changed a lot in FY 2022-23 from the earlier years. Further, the trends in trade also changed somewhat after the COVID-19 pandemic. Accordingly, candidate years to be considered for selection of base year was proposed as FY 2022-23, FY 2023-24 and FY 2024-25. These periods have been chosen as candidates so that the base year would represent the latest economic scenario and offer a stable, representative base for comparisons for the future years.

8 Commodity Basket

For selection of the base year out of the three candidate base years, there is a need of common commodity basket for a well defined comparision. The criteria for inclusion of ITCHS codes/ commodity codes in the commodity basket to be considered for selection of base year was that the code should have at least two data points in reference to unit value for a particular month across the three financial years and this criterion should be satisfied for all the 12 months. If any ITCHS codes did not meet this criterion for any given month, the same was excluded from the commodity basket. This was done with the sole purpose of keeping the number of missing values across the three financial years as small as possible ensuring minimal number of imputations. Imputations of missing values were necessary for fitting suitable linear models for each ITCHS codes across the three financial years. The overriding principle is the regular availability of trade data for the commodity codes from the customs. By following the above said criteria it was observed that for export only 7676 commodities could be included from a total of 11695 commodities where import trade was reported for the period 2022-23 to 2024-25. For import the number was 6506 from a total of 10798 commodities.

9 Procedure adopted for selection of base year

The Aggregated Relative Variation of Price (ARVRP) was used to determine the optimal base year for calculating price indices. It is usually used for the purpose of selection of base year as it measures

the volatility or variation in price relative to a potential base year, allowing to select a base year that minimizes this variation. In this case, one of the candidate years was choosen first and the Aggregated Relative Variation in Unit Values for a given month was calculated considering that selected candidate year as the base year. These variations were combined for the 12 months using the value shares of the months for the base year as weights giving the annual variations. The ARVRP was determined separately for export and import. There was a possibility that this might lead to selection of different base years for export and import. To take of this possibility of selection of different base years for export and import, the aggregated relative variation of unit value of both export and import was combined with respect to their weightage in total trade. This ensured that a single year was selected as the base year. The above-mentioned steps were carried out separately for each of the three candidate years. The ARVRP pertaining to different candidate years were compared to arrive at the selected base year. The whole process was iterated 500 times with a randomly reduced sample of items to assess the robustness of the selected base year.

Since our objective is to find the unit value import and export indices, the calculations were carried out with unit value of the traded commodities at the 8-digit level as the variable. The weights were determined using the value shares of items with respect to total import or export in that year as determined from the trend of the linear model used.

The export and import values were realigned monthly by the Real Effective Exchange Rate (REER) to adjust for changes in currency and reflect more accurate trade performance in real terms. The adjustment provides time comparability by eliminating the exchange rate movements' effect on nominal trade values.

For months where the unit value for a given item is unavailable, the values were imputed to provide continuity in the data series and to preserve consistency in the trend analysis.

Step wise Procedure in Detail:

(i) For any ITCHS code included in the common commodity basket, if the unit value for only a particular month was missing in any of the three financial years, the missing unit value was imputed using interpolation or extrapolation based on the available unit values from the same month in the other years. The imputation technique followed is as below:

(a) If the unit value is missing for a given month in FY 2023–24, but available in both FY 2022–23 and FY 2024–25 of the same month, we will impute it as the simple average of the two available values.
$\text{Unit Value}_{2023\text{–}24} = \frac{\text{Unit Value}_{2022\text{–}23} + \text{Unit Value}_{2024\text{–}25}}{2}$

(b) If the unit value is missing in FY 2022–23, but available in FY 2023–24 and FY 2024–25, we will perform backward extrapolation:

$$\text{Unit Value}_{2022-23} = 2 * \text{Unit Value}_{2023-24} - \text{Unit Value}_{2024-25}$$

If the imputed Unit value for 2022-23 is negative, then the missing unit value in FY 2022–23 will be simply replaced by the Unit value of 2023-24.

(c) If the unit value is missing in FY 2024–25, but available in FY 2022–23 and FY 2023–24, we will perform forward extrapolation:

$$\text{Unit Value}_{2024-25} = 2 * \text{Unit Value}_{2023-24} - \text{Unit Value}_{2022-23}$$

If the imputed Unit value for 2024-25 is negative, then the missing unit value in FY 2024–25 will be simply replaced by the Unit value of 2023-24.

It is important to note that no imputation was performed for export or import values. This imputation process was applied solely to unit values, ensuring continuity and consistency of the unit value series required for fitting models.

(ii) Next, linear time series model was fitted to the monthly REER-adjusted unit value data for each ITCHS code:

Linear Trend Model $Y_t = a + bt$ where Y_t denotes the Unit Values; a,b are constants and t denotes the monthly time period.

The value of the residuals from the linear model will then be used for further calculation. These residuals will be treated as Residual Unit Value i.e as P_{imt} or P_{imb} where i is the ITCHS Code, m is the month and t / b is the candidate year/base year from now onwards.

(iii) For each candidate base year and for each ITCHS Codes, the weights need to be calculated i.e the value share of the particular HS codes over a particular year
$= \frac{\text{Total export(Total import)/combined value for a particular ITCHS code}}{\text{Total export (import)/combined value of all ITCHS codes}}$

(iv) Since the number of common items between a candidate base year and other years is varying in the actual data sets (not the common commodity basket which has been prepared), this will be adjusted by the relative proportion of the number of common items between a year and the base year. This will give the representative variation in the unit value of all the items common to the base year and a particular year. At the time of calculation of aggregated Relative Variation in Unit Values, a filter was applied to to adjust for extreme values as follows for each candidate base year. Let $|\frac{P_{imt}-P_{imb}}{P_{imb}}| * W_{it} = A(say)$. Then the following interval was considered as admissible; $(min(A), median\,of\,(A) + (third\,quartile\,of\,(A) - first\,quartile\,of\,(A)))$. Hence, if any value of A is found beyond this range, then it was not considered for calculation of Aggregated relative variation in Unit value. The reason is that if some values of A are very high, they impact negatively the variation with respect to a base year. Hence to have a level playing field, this criteria was applied.

(v) Using the residuals obtained from the fitting time series model, we will compute the Aggregated Relative Variation (ARV) for each of the three candidate base years—2022–23, 2023–24, and

2024–25. The ARV is calculated to assess the stability and consistency of unit values relative to their modeled trend. Finally, the financial year that exhibits the lowest Aggregated Relative Variation was selected as the new base year, as it reflected the most stable pricing pattern for the identified common commodity basket (export/import) separately.

(vi) To assess the stability and robustness of the selected base year, a sensitivity analysis was carried out by randomly deleting 3% of the ITCHS codes from the common commodity basket. The deletion is performed in such a way that the removed items collectively account for at most 10% of the total value share of the original commodity basket. The base year selection process is then repeated using this reduced sample. If the originally selected base year remains unchanged, it confirms the consistency and reliability of the methodology under minor perturbations in the composition of the commodity basket.

10 Findings and Results

The initial results for first iteration of export, import and combined are as follows:

Table 2: Aggregated Relative Variation in Unit Values (ARVRP) [In First Iteration]

Category	**Year**	**ARVRP**
Export	2022–23	1.036687
	2023–24	**0.992043**
	2024–25	1.043280
Import	**2022–23**	**0.976812**
	2023–24	1.026503
	2024–25	1.067952
Combined	**2022–23**	**0.999617**
	2023–24	1.013025
	2024–25	1.058622

It was observed that for export, FY 2023-24 has the minimum aggregated relative variation in unit values (ARVRP), for import FY 2022-23 has the minimum aggregated relative variation in unit values and for combined, FY 2022-23 has the minimum aggregated relative variation in unit values. However, the values of ARVRP do not differ much. This was observed with all the 500 iterations. One reason for this may be that 50% of the total value was being covered by approximately 20 items in case of import and 100 items in case of export.

To assess the consistency of the above said results, the selection process was repeated 500 times after deleting 3% of random observations keeping in mind that the included part covers 90% of the total value share.

The results are given below:

Table 3: Frequency Distribution of Candidate Base Years Exhibiting Minimum Variation (500 Iterations)

Trade Type	Year	Frequency	Percentage (%)
Export	2022–23	106	21.2
	2023–24	**293**	**58.6**
	2024–25	101	20.2
Import	**2022–23**	**285**	**57.0**
	2023–24	134	26.8
	2024–25	81	16.2
Combined	**2022–23**	**253**	**50.6**
	2023–24	179	35.8
	2024–25	68	13.6

It is observed that frequency distribution of different candidate base years exhibiting minimum variation in 500 samples is consistent with the initial results mentioned at Table I for export, import and combined.

11 Conclusion

The committee recommended the method of selecting the base year from one among the last three candidate years (2022- 23 to 2024-25) which has been elucidated in detail above. Based on the results, the committee recommends that the year 2022-23 be selected as the base year for future index calculations. Further, FY 2022-23 was also being considered as base year by National Account Division (NAD), Ministry of Statistics and Program Implementation (MOSP&I). This provided an added advantage.

Many suggestions to modify the method of index calculation was suggested by the Committee. They were explored by DGCIS and findings were presented to the committee. It was recommended that the usual practice of calculating the indices may be continued at present keeping in view the volatility of trade data. Certain studies were suggested by the Committee that has been included in the recommendations part of this document. These studies must be taken up in association with the National Accounts Division (NAD), Ministry of Statistics & Program Implementation as NAD is one of the major stakeholders.

12 Recommendations

(a) Considerable variation exists in the unit values at 8-digit item level. Therefore, the scope of further sub-classification and codification of the 8-digit items should be examined to have more homogeneous composition of commodities at the basic item level and proper comparison of unit values. For this, comparison of the quartiles of the unit value distribution generated from the transaction level data for a particular year and the base year can be tried out using available data, to find out the average unit value relatives at the 8-digit level. This is expected to improve the quality of the unit value index.

(b) It is suggested that the outlier and associated checks used in the computation of index can be used at the level of validation of data before compilation. The benchmark of all such checks is some regularity behavior of the unit value of the 8-digit item, export or import. This may lead to a better compilation of the index.

(c) Changes in weights of all commodities from the base year to subsequent available years can be examined and analyzed since trade data are essentially volatile. If such analysis indicates significant structural changes in the weights of commodities, DGCI&S may consider revising the base year and construct a new index series based on the latest available data.

(d) The methodology described can be used to test the requirement of changing the base period on a regular basis, which may be necessitated by new commodity classification or significant changes in the trade scenario. Accordingly, the base year may be changed. The weights, which are determined as trend value shares, may be similarly adjusted upon arrival of new data.

(e) A study may be undertaken to explore, in case of concordance issues due to merger or splitting of ITCHS codes, whether the value shares are to be equally or proportionately allocated. It can be explored whether any rule can be devised to proportionately distribute the value share in the event of a disproportionate distribution of values.

Annexure-I

Some variations in the procedure were also tried out to further check the stability of the selected base year. The details along with the results are given below:

1. Log-linear model was also tried out (besides linear model) for fitting the time series but linear model was found out to be more appropriate based on comparison of MSEs. For 97% of the commodities MSE was less for linear model than log-linear model.

2. At the time of calculation of aggregated Relative Variation in Unit Values, a need was felt to implement a filter criteria on $|\frac{P_{imt}-P_{imb}}{P_{imb}}| * W_{it} = A(say)$ for a candidate base year. The filter criteria was a range of check given by of (min(A), median of (A) + (third quartile of (A)-first quartile of (A))). If any value of A was beyond the range, then this value was not considered during the calculation of Aggregated relative variation in Unit value. The reason being that the high values of A were having a significant effect on the overall ARVRP thereby reducing the chances for that concerned year to be selected as base year.

3. In Method 1, 3% random deletion was made to the final database i.e, 3% row deletion from the final database with replacement whereas in Method 2, 3% random deletion of codes were carried out on common commodity basket.

The results are as follows:

Table 4: First Time Results

Trade	Year	Method 1				Method 2	
		Taking Mode of Individual Residual		Not Taking Mode of Individual Residual		Taking Mode of Individual Residual	Not Taking Mode of Individual Residual
		AVRVP (Not using filter)	AVRVP (Using filter)	AVRVP (Not using filter)	AVRVP (Using filter)	AVRVP (Using filter)	AVRVP (Not using filter)
Export	2022–23	8.655741	0.492919	9.387012	1.036687	0.492919	1.036687
	2023–24	6.083890	0.466821	6.807659	0.992043	0.466821	0.992043
	2024–25	6.334677	0.496472	7.133076	1.043280	0.496472	1.043280
Import	2022–23	6.317239	0.459696	7.012411	0.976812	0.459696	0.976812
	2023–24	4.238131	0.484019	4.964414	1.026503	0.484019	1.026503
	2024–25	5.368499	0.503562	6.158450	1.067952	0.503562	1.067952
Combined	2022–23				0.999617		
	2023–24				1.013025		
	2024–25				1.058622		

The results are as follows:

Table 5: Frequency Table in 500 iterations

Trade	Year	Method 1				Method 2	
		Taking Mode of Individual Residual		Not Taking Mode of Individual Residual		Taking Mode of Individual Residual	Not Taking Mode of Individual Residual
		AVRVP (Not using filter)	AVRVP (Using filter)	AVRVP (Not using filter)	AVRVP (Using filter)	AVRVP (Using filter)	AVRVP (Not using filter)
Export	2022–23	101	95	110	106	–	–
	2023–24	241	321	248	293	500	500
	2024–25	158	84	142	101	–	–
Import	2022–23	46	281	62	285	489	484
	2023–24	377	136	381	134	11	16
	2024–25	77	83	57	81	–	–
Combined	2022–23				253		
	2023–24				179		
	2024–25				68		

From the above results, it clearly shows that for Import, the aggregated relative variations in unit value was minimum for FY. The cells highlighted in the blue gives the results for the procedure that was finally adopted.

Base Year Selection Formula

For a given month and candidate base year, Aggregated Relative Variation in Unit Values (ARVRP) is given b (Export/Import):

$ARVRP(b,m) = \sum_{t=1,t\neq b}^{T} \sum_{i=1}^{M} |\frac{p_{imt}^{'} - p_{imb}{}^{'}}{p_{imb}{}^{'}}| * w_{it}$ .... (1)

The representative variation in unit values of the candidate base year (Export/Import) is given by $ARVRP_{exp/imp}(b) = \sum_{m=1}^{12} ARVRP(b,m) * \frac{w_{mb}}{\sum_{m=1}^{12} w_{mb}}$ .... (2)

Combining ARVRP (export-import) are as follows:

$ARVRP(b) = w_{imp} * ARVRP_{imp} + w_{exp} * ARVRP_{exp}$.....(3)

Notation for equation (1):

HS code: i where i=1(1)M

M=Total number of items (Export/Import items treated separately).

Month: m, where m=1(1)12

Year: t, where t=1(1)T

Base Year: b, where b=1(1)T

T= Number of Candidate base year

$p_{imt}^{'}$ =Residuals Unit Value (value of the residuals from the linear model

$w_{it} = \frac{v_{it}}{\sum_{i \epsilon M_{tb}} v_{it}}$ =value share of the item over total export/ import

$w_{mb} = \frac{v_{mb}}{\sum_{i=1}^{12} v_{mb}}$ =value share of the month over total export/ import for the base year

For equation (3):

$w_{imp} = \frac{\text{Total Import}}{\text{Total Trade}}, w_{exp} = \frac{\text{Total Export}}{\text{Total Trade}},$

Total Trade = Total Export + Total Import

For checking consistency of the results, the process was repeated 500 times with 3% random deletion of data points i.e rows from the final database, i.e., 3% random deletion of commodities from common commodity baskets.

Estimation of missing Base Year Unit Values

Export/import data from April 2021 to March 2024 was considered. Steps for computation of the estimated unit value of HS Codes having missing values in Base year are as follows:

Step 1: All those data points for which both quantity and value are positive was used. The rest where quantity is zero was discarded, since otherwise the unit values will be overestimated.

Step 2: The country-wise values and quantities were summed up for each ITCHS and the unit values were calculated by dividing the values by the quantities for each ITCHS.

Step 3: A table containing the unit values for 36 months - from Apr, 2021 to Mar, 2024 (wherever available) was prepared.

Step 4: Outliers were checked for and substituted based on the principle of like to like comparison.

Step 5: Suppose for an item i in principal commodity group (PC), its unit value p_{im} is missing in some month m of the base year. The procedure applied to find its imputed value is given below: For this item, check whether the unit values for the nearest preceding months are outliers and select the first available unit value in the nearest preceding month, which is not an outlier. Let us call this SV, the starting value for imputation.
Next, the geometric means of month-to-month relative changes (RC) in the unit values of items in this PC based on unit values, which are positive and lie close to the range of unit values of item i, are computed.

Next, we multiply SV by RC for the month corresponding to SV. This generates the next SV. This procedure is repeated till we reach the month m. The corresponding SV gives the imputed valued from the left (L).

Similarly, we get the imputed value from the right (R).

The geometric mean of L and R is the imputed value of p_{im} .

In this manner, all the missing unit values for the base year months were imputed. This enabled us to compute unit value relatives with respect to the base year for all items appearing in any given year.

Estimation of missing base year weights

In this part the weights are computed. We would compute the 'weights' of all the ITCHS Codes in the Base Year.

Step 1: The export/import values for each ITCHS are summed over all the countries to get the total export/import value for that month for each ITCHS. It includes all those data points where the quantity is zero but value is postive.

Step 2: These tables are merged together from Apr, 21 to Mar, 24, i.e., 36 months. The weights will be calculated for the ITCHS based on Rev. 2021 since the base year is 2022-23 which is based on ITCHS 2021 Revision.

Step 3: The value shares for each ITCHS are calculated by dividing the value of each ITCHS by the total value of the PC/SITC/BEC in which it belongs.

Step 4: For the missing figures of value shares, the mean of the nearest two neighbouring value shares is used. In case there is no non-zero value share in either side, only the figure on the other side as an estimate of the missing value share has been used. In that case there is no nonzero value in both sides, it means that the ITCHS has never been traded and so there is no information using which a weight can be assigned to it. It is treated as an 'unimportant'commodity as is given a weight of zero(0).

Step 5: In case, the value figure is missing for an entire PC/SITC/BEC group, it is estimated by the same logic as the average of its value share with respect to all groups. This is because in case the whole group was not traded in a month in the base year, then a weight needs to beassigned to it. This is being done by estimating the value share of this whole group.

Step 6: Then the value shares are normalized / unitised so that their sum is 1. This is done at two levels first at the Group (PC/SITC/BEC) level so that the sum of weights of each group is 1 and then at the overall level, where the sum of weights of all ITCHS is 1.

Step 7: Then the total export/import value of that month is distributed among the groups in proportion to their weights and then these group-wise values are re-distributed among the ITCHS.This is done to make the calculations easier, since while aggregating the quarterly and yearly Indices, the weights will be proportional to these monthly estimated export/import values.

This completes the computation of the weights. At the end of this part, we have a data set that contains weights of all the ITCHS Codes present in the 2021 Revision is created. Also, since for each Classification there will be a different set of weights, so the weights of all the classifications will be stored.

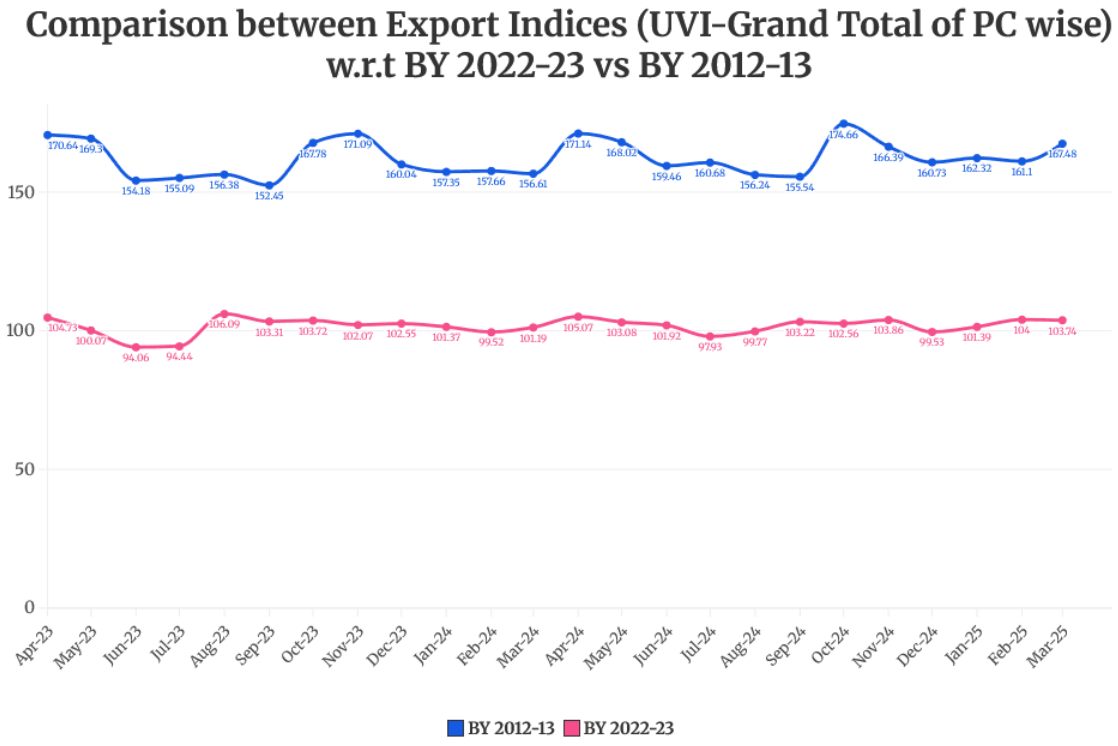

Figure 1: Comparison between Export Indices (UVI-Grand Total of Principal Commodity wise) w.r.t BY 2022-23 vs BY 2012-13

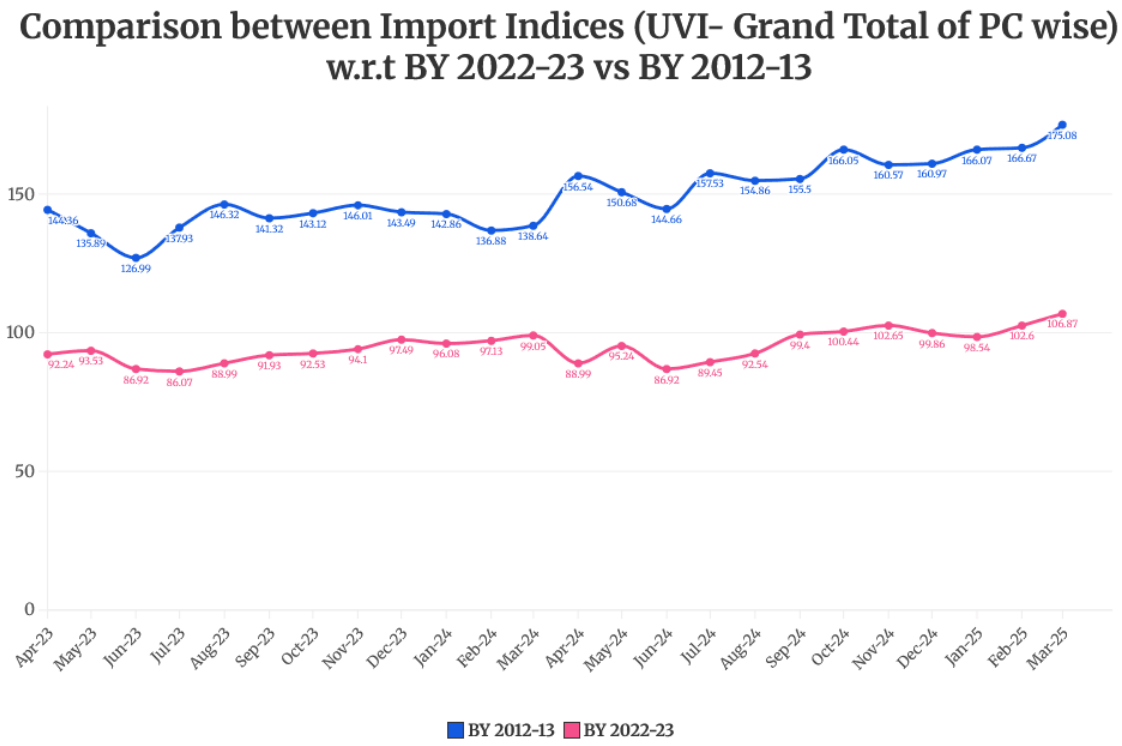

Figure 2: Comparison between Import Indices (UVI-Grand Total of Principal Commodity wise) w.r.t BY 2022-23 vs BY 2012-13

Annexure-VI

Unit Value Index (Export or Import) Formula

Notation used:

The unit Value index (export or import) for j-th Principal commodity (PC) Group for m-th month of t-th year is given by:

$I_{jmt} = \frac{\sum_{i=1}^{n_{jmt}} \frac{P_{ijmt}}{P_{ijmb}} * W_{ijmb}}{\sum_{i=1}^{n_{jmt}} W_{ijmb}}$

where

P_{ijmt} = Unit Value (Export/Import) of an item i in PC group j, in m-th month and t-th year.

P_{ijmb} = Unit Value (Export/Import) of an item i in PC group j, in m-th month and b-th year.

$W_{ijmb} = \frac{v_{ijmb}}{\sum_{i=1}^{n_{jmb}} v_{ijmb}}$

where v_{ijmb} = Trend Value (export or import) of an item i in group j, month m in base year.

$n_{jmt}(n_{jmb})$ = Total number of items in group j, moth m and year t (b: base year).

Kindly Note that for an item not traded in a particular month, its weight gets distributed uniformly over all the traded items. This procedure is similar to the treatment of seasonal items for computation of prices.

Unit Value (export/import) Index for m-th month and t-th year is giveb below:

$I_{mt} = \frac{\sum_{j=1}^{k} I_{jmt} * w_{jmb}}{\sum_{j=1}^{k} w_{jmb}}$

where $w_{jmb} = \frac{\sum_{i=1}^{n_{jmb}} v_{jmb}}{\sum_{j=1}^{k} \sum_{i=1}^{n_{jmb}} v_{jmb}}$

Unit Value (export/import) Index for t-th year is given below:

$I_t = \frac{\sum_{m=1}^{12} I_{mt} w_m}{\sum_{m=1}^{12} w_m}$

where $w_m = \frac{\sum_{j=1}^{k} \sum_{i=1}^{n_{jmb}} v_{jmb}}{\sum_{m=1}^{12} \sum_{j=1}^{k} \sum_{i=1}^{n_{jmb}} v_{jmb}}$

Annexure-VII

Unit Quantum Index (Export or Import) Formula

The Value index (export or import) for j-th principal commodity (pc) group for m-th month, t-th year is given below:

$v_{jmt} = \frac{\sum_{i=1}^{n_{jmt}} v_{jmt}}{\sum_{i=1}^{n_{jmb}} v_{ijmb}}$

where

v_{jmt} = Value (export or import) of an item i in group j, moth m and t-th year.

v_{jmb} = Value (export or import) of an item i in group j, moth m and b-th year.

The quantum Index (export or import) for j-th Principal commodity (PC) group for m-th month and t-th year is given by:

$q_{jmt} = \frac{v_{jmt}}{I_{jmt}}$

Quantum Index (export or import) for m-th month and t-th year:

$q_{mt} = \frac{\sum_{j=1}^{k} q_{jmt} w_{jmb}}{\sum_{j=1}^{k} w_{jmb}}$

where

$w_{jmb} = \frac{\sum_{i=1}^{n_{jmb}} v_{ijmb}}{\sum_{j=1}^{k} \sum_{i=1}^{n_{jmb}} v_{ijmb}}$

Quantum (export or Import) Index for t-th year

$q_t = \frac{\sum_{m=1}^{12} q_{mt} w_m}{\sum_{m=1}^{12} w_m}$

where

$w_m = \frac{\sum_{j=1}^{k} \sum_{i=1}^{n_{jmb}} v_{ijmb}}{\sum_{m=1}^{12} \sum_{j=1}^{k} \sum_{i=1}^{n_{jmb}} v_{ijmb}}$

Annexure-VIII

Deliberation on selection of Base Year on 17.09.2025 presented by DGCI&S

A meeting was held by the Committee on selection of Base Year for India's Foreign Trade Indices under the Chairmanship of Prof. Nachiketa Chattopadhyay, Indian Statistical Institute (ISI), Kolkata. The following members of the committee were present:

(1) Smt. Sangeetha Narmdeshwar, DDG, DGCI&S.

(2) Smt. Subhra Sarker, DDG, National Account Division (NAD), MOSP&I

(3) Shri Subhajit Roy, Director, DGCI&S

(4) Shri Srijan Acharya, Joint Director, DGCI&S

(5) Shri Biplab Sarkar, Deputy Director, DGCI&S (Member-Secretary)

In the said Meeting following points were discussed:

(i) Detailed procedure to identify the new base year was explained and accepted by all members.

(a) 3 (three) Candidate years (2022-23, 2023-24 & 2024-25) were first selected and list of common ITCHS at 8 digit (for export, it has been found that, among the 11695 commodities, only 7676 commodities have been found to be common commodities; and for import, among 10978 commodities, only 6506 commodities are found to be common commodities, among the three-candidate base year which satisfy the eligibility criteria to be in the common commodity basket) are identified with at least 2 transactions in these candidate years for each month.

(b) Among the common commodity basket for both exports and imports, only about 2% imputation was required over the three years [for export: among 276336, 4517 imputation was required; for import among 234216, 4206 imputation was required], using simple forward or backward linear assumptions. To model the data, both linear and log-linear trends were tested. Since the linear trend produced the minimum MSE for more than 97% of HS codes in both exports and imports, it was selected as the preferred approach. This linear trend was then used to estimate the error component for each ITCHS code across the three candidate base years.

(c) Aggregated Relative Variation in Unit Values (ARVRP) is derived for each candidate base year and for each case the financial year 2022-23 is found out to be the least and thus considered to be the Base Year.

However, the detailed calculation and description of this method will be placed in the final report and achieved in the office and submitted to Ministry for information.

(ii) The methodology of deriving Monthly, Quarterly and Yearly Indices were discussed after that.

(iii) The proposed method involved:

(a) Imputation of all ITC(HS) Codes wherever no trade took place.

(b) Imputation to be done with an escalation factor which is to be calculated on Principal Commodity (PC) level escalation rate. Geometric Mean is to be taken for such imputation exercise.

(c) Small studies are to be made for the revision of ITC(HS) Codes at 8 Digit level (i.e., addition/deletion/merging/splitting) with the data for financial years, 2022-23, 2023-24 and 2024-25.

(d) Imputation of scarce commodity (with 3 or less trading in a year) also needs to be looked into while imputation is done and their value share in the total trade value is to be understood while deriving the final weights of the index numbers.

It was decided that the presentation and the minutes are to be archived for future use.

List of other Attendees:

1. Dr. Bandana Sen, DG, DGCI&S
2. Shri Onkar Ghosh, DDG, DGCI&S
3. Smt Debanjana Dutta, DDG, DGCI&S
4. Shri Amit Verma, Director, DGCI&S
5. Shri Monojit Das, Director, DGCI&S
6. Shri Avishek Poddar, Director, DGCI&S
7. Smt. Tamanna Sinha, Director, DGCI&S
8. Shri Biswa Bihari Panigrahi, Director, DGCI&S

Annexure-IX

Minutes of the meeting of the Committee for Revision of Base Year of Merchandise Trade Indices held on 06.01.2026

A meeting was held on 06.01.2026 by the Committee on selection of Base Year for India's Foreign Trade Indices under the Chairmanship of Prof. Nachiketa Chattopadhyay, Indian Statistical Institute (ISI), Kolkata. The following members of the committee were present:

1. Smt. Sangeetha Narmdeshwar, DDG, DGCI&S
2. Shri Rajesh Kumar Sharma, DDG (NAD), MOSP&I
3. Shri Subhajit Roy, Director, DGCI&S
4. Shri Srijan Acharya, Director, DGCI&S
5. Shri Biplab Sarkar, Deputy Director, DGCI&S (Member-Secretary)

In the said meeting, following points were discussed:

(a) With reference to the proposed base year, i.e., FY 2022–23, the estimation of missing unit values and missing weights (value shares) for all items classified under HS codes has been undertaken using export and import data covering the period from FY 2021–22 to FY 2023–24. An examination of the data reveals that, out of a total of 11,914 items, 626 items in exports and 1,313 items in imports have zero value shares in the base year. In addition, it has been observed that 687 export items and 1,419 import items exhibit zero-unit values during the base year.

Since these items do not have representative unit values or value shares in the base year, they cannot be directly incorporated into the index computation using standard procedures. Accordingly, such items will be treated as new items for the purpose of index compilation. The estimation of their missing unit values and corresponding value shares will be carried out following the prescribed methodology recommended by the Indian Statistical Institute (ISI), Kolkata, to ensure methodological consistency and robustness of the index calculations.

(b) Based on the proposed base year, i.e., FY 2022–23, merchandise trade indices for FY 2023–24 were compiled at the principal commodity level for all commodity groups. These indices were prepared for all months, quarters, and for the year as a whole, and were presented before the Committee members for the purpose of comparability assessment. In addition, merchandise trade indices for FY 2023–24 were also compiled and presented on a monthly, quarterly, and annual basis using the existing base year of 2012–13 to facilitate comparison between the old and the proposed base years.

During the discussion, the ADG (NAD) emphasized the need for a thorough verification of the indices prepared using the newly proposed base year. The Chairperson appreciated the suggestion and accordingly recommended that a detailed scrutiny be carried out by selecting 10 per cent of the commodity groups from across all groups. It was further suggested that this

verification exercise should be undertaken independently by an officer who was not involved in the base year selection process or in the computation of the indices, in order to ensure objectivity and robustness of the results.

The meeting was concluded with vote of thanks.

List of other Attendees:

1. Shri Siddhartha Kundu, ADG (NAD), MOSP&I
2. Shri Khundrakpam Manao Singh, DG, DGCI&S Kolkata
3. Shri Onkar Ghosh, DDG, DGCI&S
4. Smt Debanjana Dutta, DDG, DGCI&S

Annexure-X

Minutes of the meeting of the Committee for Revision Base Year of Merchandise Trade Indices held on 22.01.2026

A meeting was held on 22.01.2026 by the Committee on selection of Base Year for India's Foreign Trade Indices under the Chairmanship of Prof. Nachiketa Chattopadhyay, Indian Statistical Institute (ISI), Kolkata. The following members of the committee were present:

1. Smt. Sangeetha Narmdeshwar, DDG, DGCI&S
2. Shri Rajesh Kumar Sharma, DDG (NAD), MOSP&I
3. Shri Subhajit Roy, Director, DGCI&S
4. Shri Srijan Acharya, Director, DGCI&S
5. Shri Biplab Sarkar, Deputy Director, DGCI&S (Member-Secretary)

In the said meeting, following points were discussed:

(a) On behalf of NAD, a suggestion was raised regarding the feasibility of revising weights on an annual basis. In response, the Chairperson clarified that annual revision of weights would violate the fundamental principles of index number construction and, therefore, it is not advisable to revise the weights of the base-year commodity basket on an annual basis, separately for exports and imports.

(b) Further, the Chairperson recommended that DGCI&S may, on an annual basis, convene meetings with NAD to examine and analyse changes in the weights of all commodities from the base year to the subsequently available years. If such analysis indicates significant or structural changes in the weights of commodities, DGCI&S may consider revising the base year and constructing a new index series based on the latest available data.

(c) With reference to the proposed base year, i.e., FY 2022–23, the Unit Value Index (UVI) prepared for FY 2023–24 will be shared with the National Accounts Division (NAD) of MoSPI and the Reserve Bank of India (RBI) strictly for verification and examination purposes. Any questionable value/anomalies noticed may be immediately reported to DGCIS so that the data can be further studied at the end. It is clarified that these provisional indices shall not be used for any official, analytical, or policy formulation purposes by the concerned agencies until the final UVI is formally approved and published.

The meeting was concluded with vote of thanks.

List of other Attendees:

1. Shri Khundrakpam Manao Singh, DG, DGCI&S Kolkata
2. Shri Onkar Ghosh, DDG, DGCI&S
3. Smt Debanjana Dutta, DDG, DGCI&S

Annexure-XI

Principal Commodity Group wise Revised Weights in the Base year 2022-23 for Export

PC CODE	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
99	0.010603	0.011443	0.012808	0.016355	0.014530	0.010270	0.013345	0.013750	0.011901	0.011125	0.011535	0.027778
A1	0.001278	0.001319	0.001572	0.002128	0.002332	0.002539	0.002438	0.002423	0.002211	0.001801	0.001647	0.001468
A2	0.002957	0.002947	0.002654	0.002540	0.002523	0.002807	0.002680	0.002368	0.002026	0.002072	0.002847	0.003444
A3	0.008433	0.009924	0.011272	0.011118	0.011497	0.009031	0.008906	0.009995	0.012898	0.014205	0.013396	0.012754
A4	0.012551	0.012764	0.014754	0.014151	0.017847	0.014287	0.014643	0.014382	0.015362	0.014920	0.016037	0.015970
A5	0.012305	0.009745	0.005748	0.004397	0.005322	0.001849	0.000666	0.000005	0.000004	0.000001	0.000175	0.000148
A6	0.002341	0.001653	0.003779	0.002774	0.001791	0.001578	0.001491	0.003951	0.004700	0.003705	0.003322	0.002117
A7	0.001159	0.002185	0.001862	0.001349	0.001120	0.001108	0.000938	0.001068	0.001206	0.001195	0.002246	0.002713
A8	0.001721	0.001707	0.001605	0.001879	0.002560	0.002703	0.002450	0.002936	0.001690	0.001309	0.001193	0.001502
A9	0.000836	0.000785	0.000870	0.001203	0.001035	0.001027	0.000985	0.000906	0.000891	0.000820	0.000817	0.000775
B1	0.008244	0.008105	0.007810	0.009272	0.009065	0.009837	0.008932	0.008262	0.007965	0.008284	0.010687	0.009709
B2	0.000852	0.000727	0.000565	0.000731	0.000684	0.000676	0.000844	0.000924	0.001013	0.001241	0.000926	0.000835
B3	0.000021	0.000014	0.000017	0.000027	0.000027	0.000033	0.000078	0.000072	0.000022	0.000032	0.000025	0.000037
B4	0.000931	0.000820	0.001361	0.001277	0.001145	0.000959	0.001020	0.000886	0.000688	0.000661	0.000892	0.001169
B5	0.000007	0.000017	0.000011	0.000011	0.000007	0.000024	0.000049	0.000026	0.000027	0.000043	0.000038	0.000034
B6	0.001496	0.001286	0.001005	0.001147	0.000967	0.000657	0.001988	0.004741	0.002850	0.002273	0.001985	0.003105
B7	0.000568	0.000081	0.000109	0.000082	0.000111	0.000096	0.000046	0.000094	0.000087	0.000411	0.000094	0.000146
B8	0.000905	0.000478	0.001058	0.000994	0.000557	0.000793	0.000720	0.001666	0.001415	0.001175	0.001330	0.001202
B9	0.002647	0.002616	0.003298	0.002188	0.002238	0.001857	0.003074	0.003907	0.005167	0.004496	0.006446	0.006610
C1	0.001237	0.001714	0.001872	0.001522	0.001466	0.001401	0.001559	0.001617	0.001459	0.001077	0.001219	0.001075
C2	0.003428	0.004404	0.003031	0.002371	0.002378	0.002083	0.002595	0.002736	0.002078	0.004335	0.002618	0.003118
C3	0.000229	0.000209	0.000149	0.000240	0.000193	0.000308	0.000217	0.000264	0.000285	0.000276	0.000301	0.000294
C4	0.017693	0.018799	0.012259	0.006925	0.007548	0.006705	0.007913	0.010310	0.021727	0.020668	0.016779	0.012503
C5	0.000693	0.000574	0.000548	0.000355	0.000612	0.000594	0.000615	0.000539	0.000559	0.000370	0.001106	0.000610
C6	0.000199	0.000195	0.000283	0.000400	0.000369	0.000251	0.000241	0.000207	0.000158	0.000163	0.000142	0.000263

PC CODE	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
C7	0.002936	0.001537	0.001089	0.000854	0.000858	0.001072	0.001508	0.001430	0.001463	0.002153	0.004162	0.004730
C8	0.001877	0.001502	0.001587	0.002137	0.002359	0.002525	0.002335	0.002273	0.002148	0.002600	0.002401	0.002304
C9	0.000951	0.001027	0.001007	0.001310	0.001269	0.001324	0.001162	0.001099	0.001155	0.001072	0.001446	0.001416
D1	0.001639	0.001355	0.001387	0.002059	0.002626	0.003004	0.002438	0.002420	0.002143	0.002220	0.002235	0.002158
D2	0.001557	0.001482	0.001431	0.001633	0.001771	0.001868	0.002023	0.002087	0.001980	0.001953	0.001698	0.001696
D3	0.000374	0.000345	0.000310	0.000370	0.000310	0.000291	0.000382	0.000415	0.000440	0.000321	0.000408	0.000358
D4	0.001235	0.001424	0.001419	0.000994	0.000842	0.000218	0.000212	0.000237	0.000223	0.000214	0.000243	0.000468
D5	0.002810	0.003065	0.003083	0.003192	0.003236	0.003435	0.003216	0.003423	0.003179	0.003376	0.003848	0.003824
D6	0.000083	0.000164	0.000119	0.000165	0.000111	0.000050	0.000069	0.000108	0.000061	0.000070	0.000065	0.000063
D7	0.007763	0.007054	0.007454	0.006252	0.007392	0.008204	0.008069	0.007619	0.007177	0.007148	0.007140	0.008047
D8	0.000199	0.000144	0.000124	0.000151	0.000138	0.000155	0.000175	0.000158	0.000166	0.000168	0.000142	0.000180
D9	0.000023	0.000012	0.000014	0.000016	0.000007	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
E1	0.000002	0.000005	0.000004	0.000005	0.000004	0.000006	0.000002	0.000004	0.000004	0.000002	0.000004	0.000002
E2	0.001668	0.001662	0.001567	0.001542	0.001531	0.001209	0.001274	0.001229	0.001405	0.001208	0.001007	0.001056
E3	0.000229	0.000242	0.000213	0.000256	0.000283	0.000311	0.000420	0.000381	0.000381	0.000344	0.000351	0.000376
E4	0.000233	0.000241	0.000217	0.000218	0.000204	0.000210	0.000191	0.000200	0.000169	0.000180	0.000229	0.000171
E5	0.000018	0.000006	0.000013	0.000014	0.000016	0.000011	0.000003	0.000006	0.000015	0.000020	0.000028	0.000025
E6	0.000598	0.000764	0.000552	0.000696	0.000638	0.000823	0.000930	0.000918	0.000967	0.000741	0.000717	0.000810
E7	0.016490	0.017661	0.017774	0.019335	0.018688	0.021456	0.024100	0.022733	0.019414	0.017403	0.015110	0.017191
E8	0.010831	0.005164	0.000274	0.000555	0.000377	0.000081	0.000262	0.000475	0.004355	0.008261	0.008804	0.009444
E9	0.000134	0.000138	0.000134	0.000129	0.000099	0.000128	0.000102	0.000134	0.000097	0.000171	0.000115	0.000126
F1	0.001998	0.000851	0.001142	0.000435	0.000497	0.001555	0.000852	0.000310	0.000904	0.000492	0.000762	0.000786
F2	0.001034	0.000712	0.000775	0.000805	0.001064	0.001014	0.001908	0.001244	0.000959	0.001345	0.001416	0.000993
F3	0.005433	0.005043	0.005094	0.004857	0.004928	0.005054	0.004546	0.004314	0.004119	0.004876	0.004879	0.004913
F4	0.002292	0.002808	0.002679	0.003757	0.003091	0.004583	0.003590	0.003057	0.003077	0.003273	0.004459	0.004045
F5	0.000937	0.001369	0.002207	0.001649	0.000837	0.000173	0.001744	0.000316	0.000286	0.000264	0.001091	0.000616
F6	0.000907	0.000563	0.000423	0.000643	0.000591	0.000566	0.000709	0.000606	0.000931	0.000779	0.000567	0.000771
F7	0.000005	0.000001	0.000001	0.000000	0.000000	0.000001	0.000003	0.000002	0.000006	0.000005	0.000005	0.000008

PC CODE	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
F8	0.001112	0.000993	0.000945	0.000937	0.001029	0.001048	0.001070	0.001058	0.000980	0.000888	0.000916	0.001066
F9	0.002943	0.002976	0.003150	0.003321	0.003258	0.003528	0.003175	0.003446	0.002806	0.002904	0.002493	0.002464
G1	0.000624	0.000738	0.000944	0.000997	0.000946	0.000969	0.000948	0.000945	0.000877	0.000851	0.000575	0.000512
G2	0.005013	0.005347	0.005402	0.006641	0.006166	0.006187	0.005741	0.005709	0.005609	0.005855	0.004838	0.004160
G3	0.000599	0.000627	0.000616	0.000716	0.000662	0.000753	0.000759	0.000715	0.000744	0.000721	0.000656	0.000575
G4	0.000527	0.000579	0.000582	0.000644	0.000584	0.000596	0.000595	0.000390	0.000480	0.000467	0.000399	0.000362
G5	0.059639	0.055202	0.054150	0.057262	0.057796	0.066713	0.067841	0.038762	0.037439	0.044363	0.071680	0.044728
G6	0.000000	0.000000	0.000017	0.000001	0.000010	0.000652	0.001081	0.000404	0.000078	0.002212	0.000000	0.000000
G7	0.000045	0.000040	0.000029	0.000023	0.000036	0.000036	0.000031	0.000040	0.000874	0.000050	0.000027	0.000661
G8	0.000266	0.000382	0.000275	0.000407	0.000387	0.000419	0.000317	0.000332	0.000576	0.000185	0.000395	0.000382
G9	0.026060	0.025538	0.027862	0.026869	0.031252	0.039552	0.034802	0.033287	0.028469	0.027558	0.026094	0.020973
H1	0.000770	0.000861	0.001111	0.001534	0.001150	0.000971	0.000788	0.000693	0.000625	0.000619	0.000604	0.000590
H2	0.000060	0.000056	0.000097	0.000070	0.000092	0.000079	0.000045	0.000043	0.000036	0.000032	0.000044	0.000050
H3	0.000063	0.000208	0.000101	0.000064	0.000098	0.000263	0.000494	0.000626	0.000312	0.000075	0.000637	0.000119
H4	0.001314	0.001399	0.001403	0.001451	0.001412	0.001455	0.001657	0.001388	0.001529	0.001645	0.001426	0.001527
H5	0.009816	0.009894	0.009591	0.010811	0.010025	0.011364	0.011299	0.010368	0.011836	0.010740	0.010549	0.012163
H6	0.000455	0.000296	0.000461	0.000427	0.000431	0.000502	0.000464	0.000461	0.000441	0.000449	0.000399	0.000468
H7	0.006797	0.006512	0.006037	0.006523	0.005512	0.005538	0.005336	0.005228	0.005256	0.004844	0.004791	0.004997
H8	0.038780	0.038209	0.037680	0.041363	0.044387	0.048141	0.045597	0.044640	0.046164	0.042813	0.042280	0.045868
H9	0.010355	0.011851	0.011032	0.013398	0.013636	0.014846	0.015161	0.015029	0.012650	0.012910	0.009840	0.010850
I1	0.001273	0.001256	0.001222	0.001402	0.001442	0.001540	0.001493	0.001377	0.001468	0.001495	0.001343	0.001416
I2	0.004796	0.004776	0.004468	0.005102	0.005411	0.005335	0.005368	0.004821	0.005194	0.005617	0.004989	0.005042
I3	0.024263	0.022573	0.027810	0.020389	0.023034	0.022440	0.019652	0.019037	0.021183	0.017891	0.019414	0.020481
I4	0.003204	0.003403	0.003322	0.003614	0.003436	0.003512	0.003763	0.003404	0.003647	0.003665	0.003528	0.003707
I5	0.005232	0.004024	0.003930	0.004828	0.003904	0.004544	0.004444	0.004952	0.004067	0.005596	0.003767	0.004126
I6	0.000524	0.000799	0.001053	0.000729	0.000580	0.000773	0.000852	0.000476	0.000609	0.001065	0.000605	0.000496
I7	0.015475	0.015972	0.017401	0.019407	0.018532	0.018481	0.018843	0.019213	0.020117	0.019886	0.016520	0.019419
I8	0.006962	0.007188	0.007038	0.007655	0.006973	0.007295	0.007335	0.007233	0.006801	0.006323	0.006081	0.006078

PC CODE	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
I9	0.003425	0.003404	0.003446	0.004410	0.003760	0.003861	0.004548	0.003846	0.004040	0.003645	0.003663	0.003683
J1	0.000615	0.000623	0.000657	0.000729	0.000701	0.000742	0.000775	0.000669	0.000553	0.000644	0.000636	0.000645
J2	0.002116	0.002403	0.002067	0.002134	0.002173	0.002252	0.002266	0.002274	0.002008	0.002047	0.002051	0.002175
J3	0.000149	0.000190	0.000208	0.000241	0.000279	0.000264	0.000368	0.000349	0.000258	0.000318	0.000442	0.000314
J4	0.001398	0.001506	0.001461	0.001482	0.001971	0.001138	0.000903	0.000833	0.000810	0.000945	0.001010	0.001294
J5	0.005607	0.005788	0.005689	0.006362	0.006388	0.004518	0.006051	0.006929	0.006738	0.006754	0.006663	0.007113
J6	0.002071	0.002231	0.002159	0.002349	0.002307	0.002299	0.002220	0.002159	0.002065	0.001981	0.001833	0.001970
J7	0.000682	0.000768	0.000733	0.000783	0.000815	0.000975	0.000946	0.001192	0.000883	0.000844	0.000852	0.000922
J8	0.000028	0.000010	0.000019	0.000010	0.000021	0.000029	0.000018	0.000013	0.000021	0.000008	0.000025	0.000014
J9	0.007997	0.007988	0.007659	0.008129	0.007229	0.007533	0.007276	0.006442	0.005692	0.007033	0.005741	0.005943
K1	0.003389	0.003290	0.002995	0.003087	0.002922	0.003169	0.003336	0.002814	0.002902	0.002886	0.002781	0.002652
K2	0.000013	0.000005	0.000001	0.000045	0.000028	0.000014	0.000050	0.000007	0.000045	0.000015	0.000001	0.000018
K3	0.000002	0.000003	0.000006	0.000004	0.000009	0.000004	0.000007	0.000008	0.000007	0.000014	0.000017	0.000020
K4	0.001717	0.001928	0.001609	0.001953	0.002107	0.002248	0.002815	0.002569	0.002484	0.002577	0.002105	0.002057
K5	0.001386	0.001567	0.001822	0.001640	0.001208	0.001278	0.001519	0.001727	0.001787	0.001476	0.001675	0.001936
K6	0.003748	0.003647	0.003302	0.003703	0.003498	0.003702	0.003612	0.003704	0.003349	0.003758	0.003374	0.003424
K7	0.002494	0.002502	0.002357	0.002632	0.002594	0.002642	0.002427	0.002421	0.002328	0.002222	0.002033	0.002083
K8	0.007242	0.007329	0.007921	0.009238	0.009006	0.007324	0.007151	0.007990	0.007047	0.006049	0.005722	0.006827
K9	0.004925	0.004835	0.004116	0.004419	0.004243	0.004301	0.004326	0.004201	0.003976	0.003546	0.003796	0.003933
L1	0.000676	0.000611	0.000530	0.000607	0.000620	0.000619	0.000689	0.000628	0.000612	0.000648	0.000601	0.000635
L2	0.001437	0.001234	0.000982	0.001198	0.001030	0.001012	0.001154	0.001053	0.001065	0.001011	0.001320	0.001203
L3	0.046465	0.048202	0.035180	0.028349	0.025868	0.025205	0.024574	0.021567	0.022127	0.028003	0.028238	0.035057
L4	0.021885	0.021074	0.020644	0.023473	0.024540	0.024014	0.022542	0.021836	0.025765	0.021607	0.022090	0.023582
L5	0.023564	0.023607	0.019731	0.018871	0.022861	0.019413	0.025341	0.020404	0.018935	0.019616	0.017897	0.018331
L6	0.003201	0.002673	0.002717	0.002940	0.002636	0.003820	0.003251	0.003126	0.004382	0.004322	0.003842	0.005683
L7	0.001524	0.001150	0.000665	0.000713	0.000658	0.000863	0.000781	0.000770	0.001315	0.001574	0.001452	0.001887
L8	0.001590	0.000374	0.000239	0.000272	0.000237	0.000315	0.000336	0.000598	0.000323	0.000413	0.000382	0.000546
L9	0.000018	0.000013	0.000049	0.000050	0.000018	0.000025	0.000017	0.000017	0.000028	0.000042	0.000026	0.000014

PC CODE	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
M1	0.003687	0.004306	0.003216	0.003160	0.001987	0.002505	0.003226	0.002969	0.003096	0.002941	0.002823	0.002929
M2	0.001784	0.001663	0.001631	0.001854	0.001736	0.002039	0.002054	0.001771	0.001789	0.001745	0.001603	0.001626
M3	0.015069	0.015339	0.014784	0.017660	0.017450	0.018121	0.018250	0.018533	0.018147	0.016799	0.016722	0.017193
M4	0.000114	0.000112	0.000119	0.000168	0.000165	0.000198	0.000192	0.000193	0.000211	0.000163	0.000168	0.000178
M5	0.001763	0.002099	0.001895	0.002519	0.002334	0.002128	0.001620	0.001605	0.001623	0.001452	0.001476	0.001747
M6	0.002253	0.002192	0.001919	0.002445	0.002227	0.002401	0.002309	0.002233	0.002323	0.002171	0.002079	0.002115
M7	0.001509	0.001442	0.001327	0.001545	0.001501	0.001431	0.001568	0.001598	0.001460	0.001435	0.001592	0.001492
M8	0.003902	0.003812	0.003953	0.004449	0.004237	0.004820	0.004975	0.006427	0.004788	0.004541	0.004261	0.005028
M9	0.000403	0.000499	0.000553	0.000717	0.000784	0.000876	0.000809	0.000892	0.000668	0.000509	0.000751	0.000916
N1	0.003324	0.003680	0.003498	0.003779	0.003905	0.003734	0.003580	0.003726	0.004098	0.003639	0.003716	0.004530
N2	0.000987	0.000831	0.000857	0.000844	0.000960	0.001018	0.001004	0.000962	0.000970	0.000848	0.000880	0.000924
N3	0.001462	0.001636	0.001552	0.002049	0.001798	0.001902	0.002100	0.001872	0.002281	0.001906	0.001856	0.002344
N4	0.023298	0.022889	0.023894	0.024624	0.022191	0.025972	0.025012	0.028599	0.026642	0.028498	0.023410	0.026725
N5	0.006916	0.008098	0.007506	0.009487	0.008344	0.008784	0.008830	0.009064	0.009093	0.007997	0.008033	0.008431
N6	0.018995	0.018527	0.018600	0.019481	0.019902	0.020360	0.021530	0.020046	0.022030	0.019303	0.016576	0.019186
N7	0.004267	0.004667	0.004552	0.005495	0.005211	0.005919	0.005925	0.006194	0.006387	0.005759	0.005865	0.006297
N8	0.001355	0.002050	0.000985	0.001987	0.001340	0.001746	0.001359	0.001010	0.001951	0.001344	0.001164	0.001190
N9	0.004363	0.004946	0.004726	0.005797	0.005274	0.006192	0.005975	0.006212	0.006650	0.005804	0.005666	0.005991
O1	0.008340	0.008872	0.008044	0.009226	0.009278	0.009900	0.010225	0.010172	0.010336	0.009227	0.008949	0.010789
O2	0.000073	0.000065	0.000064	0.000079	0.000059	0.000065	0.000069	0.000042	0.000064	0.000074	0.000054	0.000058
O3	0.002568	0.002856	0.002728	0.002910	0.003168	0.003345	0.003388	0.003249	0.003705	0.003012	0.003068	0.003034
O4	0.000829	0.000128	0.000014	0.000084	0.000018	0.002225	0.000056	0.000068	0.000187	0.000142	0.000083	0.000108
O5	0.015564	0.016456	0.015815	0.016374	0.017896	0.018437	0.018439	0.019156	0.021891	0.019309	0.015960	0.019600
O6	0.001078	0.000907	0.000786	0.000762	0.001160	0.000787	0.000337	0.001521	0.000801	0.000677	0.000958	0.000571
O7	0.007620	0.008813	0.010045	0.017240	0.003370	0.005631	0.007041	0.005041	0.005649	0.011654	0.020507	0.009226
O8	0.006451	0.007204	0.006689	0.007348	0.006771	0.006364	0.006702	0.006762	0.006254	0.005535	0.005526	0.006187
O9	0.000984	0.000796	0.000949	0.001120	0.001047	0.001152	0.001675	0.001454	0.001469	0.001451	0.001787	0.001722
P1	0.002653	0.001775	0.002245	0.004347	0.004176	0.004331	0.001340	0.001166	0.001090	0.001004	0.001025	0.001214

PC CODE	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
P2	0.007315	0.006097	0.006535	0.007744	0.007101	0.008614	0.007400	0.007098	0.007553	0.007000	0.007276	0.007065
P3	0.008320	0.010406	0.007159	0.008421	0.008780	0.009680	0.012177	0.010704	0.010558	0.009193	0.009242	0.010725
P4	0.008093	0.002902	0.003243	0.003989	0.003259	0.002792	0.003294	0.003743	0.002185	0.001924	0.002090	0.001903
P5	0.000004	0.000003	0.000006	0.000005	0.000003	0.000011	0.000007	0.000007	0.000004	0.000001	0.000001	0.000003
P6	0.001169	0.001184	0.000916	0.001198	0.001303	0.001042	0.000902	0.001028	0.000952	0.001039	0.001105	0.001056
P7	0.009639	0.006883	0.005575	0.005733	0.005049	0.004222	0.004549	0.006037	0.005304	0.007039	0.007638	0.008463
P8	0.017037	0.017388	0.014887	0.016466	0.016482	0.016303	0.016252	0.015397	0.015577	0.015762	0.014097	0.014056
P9	0.001420	0.001330	0.001360	0.001363	0.001305	0.001469	0.001385	0.001186	0.001274	0.001148	0.001045	0.001183
Q1	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000002	0.000002
Q2	0.000184	0.000144	0.000152	0.000211	0.000169	0.000223	0.000229	0.000133	0.000111	0.000166	0.000154	0.000148
Q3	0.011879	0.011188	0.011040	0.011838	0.011827	0.011943	0.011778	0.010807	0.010732	0.011774	0.011297	0.012145
Q4	0.000001	0.000002	0.000002	0.000003	0.000002	0.000002	0.000001	0.000000	0.000003	0.000000	0.000000	0.000001
Q5	0.000406	0.000399	0.000405	0.000471	0.000443	0.000530	0.000492	0.000479	0.000514	0.000573	0.000518	0.000503
Q6	0.024219	0.022104	0.021677	0.021937	0.019735	0.017651	0.018342	0.021107	0.023565	0.024966	0.022323	0.020519
Q7	0.000192	0.000218	0.000226	0.000165	0.000160	0.000158	0.000310	0.000263	0.000150	0.000193	0.000223	0.000411
Q8	0.007579	0.006565	0.006510	0.006826	0.006841	0.006512	0.006519	0.006553	0.007769	0.008609	0.007904	0.007106
Q9	0.000279	0.000247	0.000466	0.000415	0.000412	0.000469	0.000615	0.000447	0.000332	0.000493	0.000290	0.000334
R1	0.008469	0.008164	0.007771	0.007956	0.007387	0.006728	0.007133	0.007987	0.009209	0.009910	0.009191	0.008397
R2	0.001173	0.000990	0.000902	0.000911	0.000779	0.000783	0.000806	0.000696	0.000630	0.000760	0.000771	0.000839
R3	0.000504	0.000464	0.000456	0.000489	0.000376	0.000374	0.000429	0.000414	0.000399	0.000393	0.000346	0.000431
R4	0.000052	0.000030	0.000047	0.000083	0.000042	0.000049	0.000064	0.000053	0.000036	0.000074	0.000043	0.000054
R5	0.000074	0.000015	0.000011	0.000037	0.000097	0.000086	0.000059	0.000072	0.000066	0.000058	0.000046	0.000043
R6	0.000043	0.000028	0.000022	0.000030	0.000033	0.000036	0.000036	0.000018	0.000016	0.000018	0.000020	0.000018
R7	0.000334	0.000348	0.000313	0.000325	0.000359	0.000345	0.000212	0.000344	0.000371	0.000270	0.000227	0.000245
R8	0.000235	0.000229	0.000231	0.000206	0.000188	0.000183	0.000196	0.000204	0.000228	0.000187	0.000164	0.000179
R9	0.000577	0.000534	0.000466	0.000502	0.000605	0.000459	0.000346	0.000431	0.000457	0.000440	0.000412	0.000512
S1	0.002942	0.002973	0.002674	0.003119	0.002846	0.003010	0.003106	0.002327	0.002342	0.002437	0.002329	0.002232
S2	0.003149	0.003270	0.003097	0.003091	0.002825	0.003020	0.003488	0.003393	0.003140	0.002975	0.002694	0.002703

PC CODE	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
S3	0.000104	0.000106	0.000087	0.000108	0.000111	0.000132	0.000119	0.000110	0.000150	0.000139	0.000120	0.000124
S4	0.004579	0.002786	0.001810	0.001238	0.000561	0.000464	0.000510	0.000723	0.001032	0.002170	0.002869	0.002430
S5	0	0	0	0	0	0	0	0	0	0	0	0
S6	0.204496	0.224833	0.259925	0.221699	0.239038	0.216408	0.210738	0.246241	0.231660	0.228320	0.222710	0.211618
SUM	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

Annexure-XII

Principal Commodity Group-wise Revised Weights in the Base year 2022-23 for Import

PC CODE	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
99	0.007449508	0.006801695	0.008271935	0.008566774	0.008398285	0.007491209	0.009078037	0.008589715	0.007238689	0.008291839	0.006905671	0.007373190
A1	0.000097351	0.000073321	0.000077363	0.000082596	0.000115267	0.000122019	0.000065183	0.000116662	0.000098225	0.000070440	0.000056580	0.000065169
A2	0.000211039	0.000254089	0.000292040	0.000284707	0.000365813	0.000369771	0.000404184	0.000347205	0.000395159	0.000318407	0.000281708	0.000282956
A3	0	0	0	0	0	0	0	0	0	0	0	0
A4	0.000006449	0.000006352	0.000005761	0.000004572	0.000007161	0.000003903	0.000011714	0.000006622	0.000005469	0.000012401	0.000014060	0.000012438
A5	0.000000216	0.000000216	0.000000216	0.000000216	0.000000216	0.000000216	0.000000432	0.000000001	0.000000003	0.000054273	0.000108549	0.000108303
A6	0.000028093	0.000031530	0.000059349	0.000031662	0.000597720	0.000100723	0.000431464	0.000204973	0.000111056	0.000904502	0.000039728	0.000022139
A7	0.001776718	0.000884573	0.001155765	0.001070087	0.002325097	0.002736040	0.003661255	0.004640307	0.005086978	0.004280336	0.003680636	0.003207668
A8	0.000006447	0.000000706	0.000004283	0.000000840	0.000011333	0.000033473	0.000029247	0.000001486	0.000122741	0.000019595	0.000033287	0.000004584
A9	0.000118289	0.000062098	0.000136316	0.000133739	0.000060779	0.000075181	0.000101246	0.000075966	0.000056535	0.000083007	0.000053689	0.000090617
B1	0.002854922	0.001980618	0.002171350	0.002350745	0.001718557	0.001543917	0.001526456	0.001777993	0.001559441	0.002214093	0.001676592	0.001921504
B2	0.001941992	0.002443009	0.005101524	0.005619849	0.004484898	0.003696475	0.002072898	0.001336820	0.000640600	0.001336852	0.000853353	0.000958089
B3	0.000000951	0.000003465	0.000001252	0.000002422	0.000000956	0.000004604	0.000001716	0.000001159	0.000001814	0.000002830	0.000002416	0.000000528
B4	0.000073317	0.000012332	0.000050316	0.000014086	0.000018127	0.000019624	0.000026443	0.000086014	0.000101121	0.000266627	0.000488103	0.000662683
B5	0.000005337	0.000003625	0.000002715	0.000002715	0.000002715	0.000001806	0.000001399	0.000001399	0.000000992	0.000001170	0.000000774	0.000004397
B6	0.000004621	0.000001911	0.000000514	0.000006080	0.000003040	0.000000000	0.000003704	0.000009486	0.000000756	0.000000661	0.000000565	0.000000424
B7	0.000890463	0.001429929	0.000977341	0.000864262	0.000387832	0.000231885	0.000168845	0.000078903	0.000121180	0.000254232	0.000896635	0.001374597
B8	0.031049683	0.028632987	0.029058274	0.032706203	0.031755782	0.031772991	0.028252678	0.029057308	0.030930805	0.039931562	0.025911308	0.024498394
B9	0.000197991	0.000179393	0.000188980	0.000867864	0.001073595	0.000194094	0.000130633	0.000125299	0.000121605	0.000177063	0.000135745	0.000099194
C1	0.000005644	0.000027665	0.000001221	0.000002702	0.000000459	0.000001560	0.000000694	0.000001444	0.000001598	0.000000266	0.000000967	0.000001303
C2	0.000000731	0.000000481	0.000000642	0.000002042	0.000002942	0.000001307	0.000000678	0.000005651	0.000001805	0.000004455	0.000006395	0.000002162
C3	0.000011839	0.000034862	0.000025920	0.000020488	0.000030703	0.000018365	0.000024306	0.000079231	0.000106632	0.000070221	0.000096357	0.000066203
C4	0.000024229	0.000018047	0.000021621	0.000009538	0.000687344	0.001502214	0.000668986	0.000023658	0.000645699	0.000778867	0.000014137	0.000681759
C5	0.000000596	0.000000941	0.000001073	0.000002448	0.000000291	0.000001456	0.000000000	0.000001051	0.000000314	0.000000786	0.000000864	0.000000153
C6	0.000182222	0.000156440	0.000168262	0.000214794	0.000200287	0.000264341	0.000292552	0.000254026	0.000198488	0.000239186	0.000139073	0.000188439

PC CODE	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
C7	0.004039711	0.003216986	0.003612344	0.003391447	0.003127305	0.003241889	0.003480685	0.003553241	0.003974987	0.004192424	0.003827078	0.003705554
C8	0.000002286	0.000003015	0.000002651	0.000007797	0.000011603	0.000015621	0.000015023	0.000007181	0.000002610	0.000008255	0.000006155	0.000011028
C9	0.000053639	0.000043282	0.000050196	0.000071355	0.000035450	0.000022758	0.000044949	0.000050065	0.000040110	0.000060088	0.000032877	0.000040728
D1	0.000207488	0.000215945	0.000178352	0.000173832	0.000256686	0.000278447	0.000223463	0.000225903	0.000163378	0.000259231	0.000260964	0.000266570
D2	0.000301006	0.000228944	0.000239342	0.000312866	0.000390983	0.000350816	0.000340655	0.000319008	0.000319408	0.000301347	0.000269992	0.000329561
D3	0.000588917	0.000539215	0.000596034	0.000514276	0.000722574	0.000617648	0.000770409	0.000775123	0.000653102	0.000760865	0.000599736	0.000540357
D4	0.000009545	0.000001944	0.000001346	0.000006611	0.000003450	0.000003122	0.000002372	0.000001598	0.000004542	0.000003674	0.000003951	0.000002427
D5	0.000708656	0.000859535	0.000701169	0.000633077	0.000721880	0.000684633	0.000680227	0.000657035	0.000575076	0.000894383	0.000728092	0.000821055
D6	0.000000272	0.000000272	0.000000272	0.000000272	0.000000272	0.000000272	0.000000272	0.000000272	0.000000272	0.000000272	0.000000272	0.000000272
D7	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
D8	0.000001637	0.000006571	0.000003536	0.000000501	0.000003727	0.000001825	0.000001569	0.000000502	0.000001155	0.000011732	0.000004197	0.000005321
D9	0.000003286	0.000007888	0.000004214	0.000000949	0.000009529	0.000006079	0.000012614	0.000006956	0.000011849	0.000006254	0.000007302	0.000006459
E1	0.000000259	0.000000625	0.000000992	0.000000908	0.000000840	0.000000773	0.000000626	0.000000479	0.000000420	0.000001688	0.000001066	0.000000445
E2	0.000071508	0.000065897	0.000088997	0.000062928	0.000045153	0.000055386	0.000081773	0.000115441	0.000092575	0.000148348	0.000089223	0.000058058
E3	0.000003680	0.000017452	0.000004223	0.000005917	0.000007183	0.000002686	0.000024080	0.000007438	0.000003174	0.000014912	0.000001996	0.000001228
E4	0.000078541	0.000056676	0.000046221	0.000045465	0.000043821	0.000048577	0.000052165	0.000036536	0.000034680	0.000049731	0.000059478	0.000070457
E5	0.001311322	0.001587685	0.001186015	0.001295577	0.002023148	0.001635619	0.001570655	0.001463616	0.001130033	0.001256306	0.000894950	0.000895141
E6	0.001282340	0.000919983	0.001779079	0.001367693	0.000826592	0.001070362	0.001106594	0.001215487	0.000899469	0.001291228	0.000944260	0.001149217
E7	0.000269280	0.000326927	0.000309507	0.000324922	0.000292858	0.000611655	0.000318390	0.000325114	0.000496350	0.000434781	0.000276111	0.000296121
E8	0.000027509	0.000218805	0.000248912	0.000024132	0.000001646	0.000204649	0.000354098	0.000003113	0.000376094	0.000878865	0.000379156	0.000771834
E9	0.000004062	0.000004285	0.000003245	0.000003365	0.000001584	0.000002747	0.000003277	0.000001785	0.000005779	0.000002455	0.000003163	0.000004119
F1	0.088240357	0.090885459	0.107897253	0.083930871	0.076222956	0.057618348	0.056434468	0.068335663	0.055790664	0.052361590	0.061112335	0.060036069
F2	0.009328993	0.010550804	0.010576503	0.009360890	0.008768528	0.008084537	0.008622429	0.007025678	0.008223263	0.009830363	0.006757179	0.012391905
F3	0.000459323	0.000420174	0.000590022	0.000639081	0.000661076	0.000653429	0.000590849	0.000688521	0.000657327	0.000701723	0.000642445	0.000510068
F4	0.003553819	0.003608338	0.002759144	0.002786341	0.003544397	0.002420148	0.002677212	0.002454246	0.002604791	0.002220281	0.002667514	0.002505996
F5	0.001052595	0.000611586	0.000754445	0.000228544	0.000240443	0.000627897	0.000200816	0.000574277	0.000515313	0.000425839	0.000521101	0.000131676
F6	0.000606162	0.000775239	0.000649599	0.000632407	0.000650771	0.000922496	0.000861824	0.000918824	0.000871742	0.001072165	0.000720553	0.000780452
F7	0.000062087	0.000050549	0.000057125	0.000051839	0.000052397	0.000058942	0.000043564	0.000049117	0.000037548	0.000036386	0.000034174	0.000035439

PC CODE	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
F8	0.000833430	0.000756557	0.000766065	0.000659358	0.000775821	0.000594728	0.000656832	0.000586390	0.000518780	0.000544480	0.000563824	0.000560977
F9	0.000080874	0.000077488	0.000059691	0.000080763	0.000075558	0.000091411	0.000105502	0.000087376	0.000104369	0.000105297	0.000099286	0.000085423
G1	0.000000903	0.000000800	0.000000987	0.000001796	0.000001429	0.000001736	0.000001293	0.000002727	0.000004387	0.000004403	0.000001999	0.000002337
G2	0.000536526	0.000550031	0.000696972	0.000670006	0.000848163	0.000841577	0.000675678	0.000680084	0.000798252	0.000802114	0.000699685	0.000574881
G3	0.000047075	0.000065314	0.000047477	0.000066774	0.000056806	0.000043968	0.000086969	0.000036996	0.000039104	0.000040364	0.000037320	0.000044272
G4	0.000005096	0.000004226	0.000005860	0.000005275	0.000003809	0.000003758	0.000005828	0.000010082	0.000001019	0.000004374	0.000006029	0.000004484
G5	0.044112552	0.044175185	0.044497609	0.049414045	0.038296848	0.041250942	0.036942982	0.040241913	0.039913665	0.029629887	0.047733908	0.050375930
G6	0.030898938	0.101333065	0.043810598	0.038420190	0.059759036	0.062910254	0.066141467	0.058933981	0.019970707	0.013920518	0.051360639	0.057388498
G7	0.001962505	0.007505570	0.012565122	0.017471017	0.012222935	0.017346137	0.010461206	0.002473612	0.002839051	0.002276459	0.000252626	0.001225128
G8	0.000937594	0.000941252	0.000321591	0.000645398	0.001792318	0.017581386	0.003640309	0.000254869	0.000299039	0.000395118	0.000353321	0.000604178
G9	0.001978654	0.001791546	0.001153001	0.001471243	0.000948038	0.001032279	0.002451139	0.001317551	0.002228684	0.001337931	0.001557234	0.004271734
H1	0.000395979	0.000381001	0.000403694	0.000464021	0.000533877	0.000468972	0.000484375	0.000515440	0.000473202	0.000528134	0.000493837	0.000474038
H2	0.003568933	0.002257541	0.002355500	0.002825881	0.002308418	0.003019002	0.003723112	0.003423082	0.002127384	0.002627822	0.003234324	0.002376227
H3	0.017990607	0.013380309	0.018409138	0.024582684	0.022467707	0.026111014	0.033907329	0.028163221	0.030372533	0.028758861	0.010041991	0.011743167
H4	0.000142780	0.000161782	0.000137851	0.000216224	0.000217433	0.000153866	0.000159011	0.000126458	0.000160545	0.000185888	0.000222525	0.000220874
H5	0.006787433	0.006773954	0.006971784	0.006282291	0.005564326	0.005199722	0.006714595	0.006679109	0.006974153	0.007611221	0.006750423	0.006421201
H6	0.002085312	0.001706795	0.001807340	0.001945287	0.001404565	0.001865108	0.001910995	0.001548356	0.001721480	0.002141104	0.002049970	0.001250374
H7	0.000540648	0.000482766	0.000520332	0.000463325	0.000434351	0.000323632	0.000362356	0.000420618	0.000380204	0.000481012	0.000435624	0.000611708
H8	0.002902581	0.002933764	0.002671610	0.002671820	0.002869558	0.002538427	0.002864650	0.003419068	0.003726902	0.003429118	0.002918586	0.003249172
H9	0.003405403	0.004016908	0.004932227	0.003606301	0.002564712	0.001689156	0.001396003	0.001407099	0.001163834	0.002155049	0.002029012	0.002560151
I1	0.001455522	0.001241614	0.001347523	0.001378403	0.001511809	0.001324451	0.001358160	0.001347022	0.001232278	0.001454949	0.001544012	0.001626125
I2	0.020365335	0.012054530	0.014227791	0.011947845	0.015882261	0.011982633	0.012497284	0.013582218	0.013656942	0.013402222	0.014484753	0.010683016
I3	0.031587622	0.031877109	0.030987367	0.029413192	0.025490899	0.021221876	0.022541345	0.025794083	0.023077237	0.022668930	0.023291337	0.027316413
I4	0.001888405	0.001768938	0.002019137	0.002206629	0.002054984	0.001618097	0.001632272	0.001652669	0.001655484	0.001766392	0.001616025	0.001705899
I5	0.002866546	0.003598842	0.003279391	0.002907939	0.002775376	0.003079174	0.003094369	0.003656486	0.002654184	0.004323803	0.002721939	0.002656535
I6	0.000349821	0.000362833	0.000430086	0.000268730	0.000298745	0.000263473	0.000258234	0.000352944	0.000460040	0.000488944	0.000360244	0.000349188
I7	0.018176251	0.017243602	0.018129262	0.018516734	0.017971073	0.015321434	0.014871795	0.016700599	0.016282739	0.017212361	0.018378961	0.018560798
I8	0.000400816	0.000367734	0.000427096	0.000398009	0.000346296	0.000408247	0.000389550	0.000439102	0.000355769	0.000489534	0.000401182	0.000452573

PC CODE	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
I9	0.004449707	0.004076206	0.004306276	0.004457677	0.004613491	0.004536092	0.004236756	0.004304351	0.003653682	0.004055568	0.003645232	0.004117179
J1	0.000499989	0.000457482	0.000613027	0.000645409	0.000781699	0.000582846	0.000587197	0.000528451	0.000505714	0.000758665	0.000635704	0.000454953
J2	0.003896790	0.003607352	0.003372454	0.003575708	0.003591076	0.002931482	0.003169629	0.003228763	0.003106420	0.003598641	0.002966840	0.003419917
J3	0.000349521	0.000363769	0.000274771	0.000403874	0.000482794	0.000332979	0.000372819	0.000412344	0.000298256	0.000455128	0.000427199	0.000268179
J4	0.000197413	0.000296831	0.000178057	0.000139967	0.000114673	0.000142447	0.000170958	0.000224202	0.000246019	0.000216190	0.000165027	0.000237845
J5	0.001268703	0.001651048	0.001460274	0.001781472	0.002142032	0.002039882	0.001650328	0.001806751	0.001814500	0.002006758	0.001733255	0.001613384
J6	0.002171274	0.001970821	0.002398314	0.002342758	0.002529919	0.002063359	0.002146113	0.002357706	0.002308868	0.003065279	0.002616869	0.002596075
J7	0.000407841	0.000355676	0.000593166	0.000853274	0.000361663	0.000366690	0.000448394	0.000425951	0.000757509	0.000777536	0.000440907	0.000500461
J8	0.000445303	0.000474722	0.000745730	0.000943114	0.000696904	0.000766014	0.001229076	0.000817158	0.000616041	0.000952193	0.000595837	0.000813853
J9	0.006919779	0.006856270	0.007427620	0.007225655	0.006588122	0.006011845	0.006379750	0.008251670	0.006424721	0.008535055	0.006599607	0.006543303
K1	0.001456700	0.001582383	0.001442251	0.001627463	0.001711420	0.001622247	0.001727160	0.001767181	0.001598441	0.001902403	0.001603712	0.001683972
K2	0.001225359	0.000941184	0.001042223	0.000935788	0.001358203	0.001013898	0.001041648	0.000932710	0.000783694	0.000699493	0.001068758	0.001239496
K3	0.002259031	0.002506047	0.002469218	0.002524126	0.003221166	0.002990147	0.004021867	0.004017171	0.003109080	0.004435857	0.002648493	0.002963532
K4	0.000888916	0.000951163	0.000918969	0.001069775	0.000987841	0.000948081	0.000887116	0.000911465	0.000937495	0.001116448	0.001330646	0.001286288
K5	0.000003650	0.000004182	0.000006278	0.000008449	0.000019710	0.000005587	0.000027807	0.000007001	0.000007817	0.000007991	0.000003619	0.000011686
K6	0.002837924	0.002645011	0.002716101	0.002860922	0.002816606	0.002422141	0.002559835	0.002622489	0.002599090	0.002905704	0.002606706	0.002534359
K7	0.000589296	0.000601874	0.000541963	0.000509874	0.000462426	0.000497873	0.000445819	0.000469264	0.000465418	0.000637182	0.000450398	0.000508013
K8	0.025970531	0.025131290	0.026160223	0.025222817	0.023505944	0.021824585	0.023325243	0.024630763	0.020405511	0.025425764	0.027186312	0.029429697
K9	0.004877824	0.004323730	0.004192967	0.004562381	0.004902948	0.003937853	0.003644468	0.003866338	0.003534322	0.004585477	0.003718163	0.003925486
L1	0.000124916	0.000094578	0.000114406	0.000134438	0.000106371	0.000105523	0.000132205	0.000146887	0.000151686	0.000169971	0.000106033	0.000122928
L2	0.001375284	0.001330831	0.001369280	0.001484919	0.001399748	0.001154485	0.001177970	0.001341304	0.001219469	0.001505828	0.001351112	0.001139544
L3	0.020063323	0.020716816	0.019030099	0.020981429	0.022487268	0.024090790	0.028608447	0.032489202	0.033015196	0.036474955	0.029068473	0.024609695
L4	0.006659144	0.006213666	0.006255716	0.007015753	0.007116241	0.006597151	0.006986563	0.007400497	0.006838336	0.007892557	0.007462598	0.006833334
L5	0.010755674	0.010556096	0.010230848	0.011093943	0.011141350	0.009842614	0.010075962	0.010647662	0.009518799	0.011054185	0.009217149	0.009744464
L6	0.015700370	0.010358839	0.009328846	0.010748272	0.009934977	0.007623526	0.009963143	0.010690889	0.011596542	0.011326163	0.014055311	0.012114019
L7	0.001068765	0.001006197	0.000906823	0.000945760	0.000917126	0.001119035	0.000960097	0.001322149	0.001338586	0.001682485	0.001209561	0.001208082
L8	0.001470105	0.001214462	0.001517694	0.001726835	0.002356965	0.001899610	0.002177701	0.001760396	0.002009069	0.002413872	0.002102101	0.002447843
L9	0.000881317	0.000526516	0.000595570	0.001003857	0.000596485	0.000629475	0.000432857	0.000385040	0.000447163	0.000565626	0.000522054	0.000307724

PC CODE	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
M1	0.000977323	0.001304158	0.001019925	0.001409017	0.001339919	0.001165295	0.001384895	0.001303243	0.001330940	0.001476385	0.001554333	0.001617484
M2	0.002491136	0.002300964	0.002255453	0.002447763	0.002402778	0.002185777	0.002302959	0.002306147	0.002109335	0.002640077	0.002197771	0.001974056
M3	0.008786950	0.008432936	0.008592738	0.009505844	0.009854260	0.008311618	0.008926752	0.009842458	0.009027479	0.010326949	0.009084891	0.009694743
M4	0.000211710	0.000218749	0.000266387	0.000356055	0.000217990	0.000434398	0.000218631	0.000461130	0.000340912	0.000261705	0.000390278	0.000292193
M5	0.004879806	0.004229581	0.003794175	0.004528960	0.005342682	0.005069064	0.005066713	0.005636431	0.004943239	0.007280325	0.005955434	0.006389959
M6	0.001724572	0.001870827	0.001817217	0.001787861	0.001791008	0.001556360	0.002224114	0.002028981	0.001712945	0.001984972	0.002037218	0.001933424
M7	0.003724081	0.003185628	0.003536794	0.003844100	0.003643667	0.003945612	0.003894183	0.004075470	0.004205382	0.005024093	0.004204839	0.003882816
M8	0.007135582	0.006891001	0.006529581	0.006909973	0.007152413	0.007002920	0.006648821	0.007471004	0.007489223	0.007935446	0.008087247	0.008998492
M9	0.000071348	0.000048515	0.000232851	0.000079500	0.000088742	0.000103023	0.000144644	0.000154634	0.000083504	0.000155478	0.000079978	0.000109416
N1	0.006160065	0.005343677	0.005480438	0.006227991	0.005951616	0.004890429	0.005604632	0.006529714	0.006928051	0.006971365	0.007607270	0.006601097
N2	0.000264548	0.000265906	0.000298347	0.000340339	0.000342948	0.000262055	0.000222299	0.000241619	0.000217039	0.000219926	0.000228539	0.000198877
N3	0.002751505	0.002698977	0.002431976	0.002415048	0.002770940	0.002330665	0.003435854	0.003175416	0.003186246	0.003554635	0.003409239	0.003562166
N4	0.015739877	0.013317239	0.014867593	0.014013275	0.014565079	0.015707758	0.017040155	0.018238039	0.018100396	0.019166520	0.016721588	0.015999672
N5	0.004215348	0.004347990	0.004151360	0.004006489	0.004225919	0.003603905	0.003548762	0.003905794	0.003967297	0.004577972	0.004114235	0.004180083
N6	0.019102837	0.016962435	0.019258395	0.020238998	0.023034869	0.020477254	0.021510918	0.022984657	0.022239342	0.025927045	0.025771721	0.023759332
N7	0.001472924	0.001552330	0.001532483	0.001878370	0.001748931	0.001563888	0.001891356	0.001775174	0.001960887	0.002199503	0.002039461	0.001885017
N8	0.000541927	0.000597880	0.000459392	0.000763081	0.000706256	0.000421445	0.000691926	0.000770443	0.000754876	0.000851143	0.000772038	0.000858847
N9	0.003476131	0.002527705	0.003808338	0.003213315	0.003659961	0.003583586	0.003680256	0.003924919	0.003483216	0.004952296	0.003522627	0.004029446
O1	0.006323473	0.006938956	0.006680153	0.006932267	0.006888011	0.006395963	0.006877034	0.007077702	0.008227441	0.008574878	0.010145536	0.009675251
O2	0.000741922	0.000636736	0.000699212	0.000715497	0.000741484	0.000687500	0.000723085	0.000764494	0.000714732	0.000820243	0.000880231	0.000951507
O3	0.002104170	0.002056205	0.001912657	0.002046278	0.002096673	0.001902037	0.001750190	0.002215731	0.002177732	0.002276256	0.002062499	0.002225748
O4	0.006976465	0.012367457	0.007269517	0.004718829	0.008080447	0.019486666	0.025544975	0.017623896	0.024658087	0.006381408	0.010014039	0.011063437
O5	0.000894196	0.000349292	0.000959741	0.000298672	0.000821743	0.000395299	0.001144712	0.001079308	0.000978933	0.002287628	0.000763657	0.001170185
O6	0.000707200	0.000620465	0.000619520	0.000818439	0.000946718	0.000942350	0.000832595	0.001410336	0.000904708	0.001569778	0.000962192	0.001104846
O7	0.005339064	0.006773762	0.002742248	0.000912258	0.003692671	0.019997142	0.011966197	0.009289883	0.034735301	0.010855993	0.010469466	0.005624429
O8	0.000070059	0.000111407	0.000045560	0.000051180	0.000067544	0.000161835	0.000107226	0.000049434	0.000060716	0.000067561	0.000119383	0.000077609
O9	0.022991512	0.018218268	0.024499801	0.024665232	0.024266758	0.020823177	0.022273507	0.017043084	0.017528658	0.019291261	0.015085393	0.018096071
P1	0.006710881	0.005854415	0.005604323	0.006732624	0.007914959	0.006060810	0.003714349	0.003791051	0.004008444	0.004111615	0.003878025	0.004337217

PC CODE	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
P2	0.036667743	0.029520222	0.025739405	0.029691366	0.033327056	0.034513806	0.030758140	0.031006980	0.031166238	0.037220259	0.035281830	0.039594199
P3	0.013977142	0.013714814	0.013864169	0.014877205	0.016060819	0.015471279	0.015454930	0.016744015	0.015839227	0.017065505	0.015183867	0.016589857
P4	0.007588636	0.006468443	0.006561132	0.007986834	0.008487538	0.008863989	0.008864409	0.008895281	0.008725815	0.009873923	0.007704102	0.008518226
P5	0.002141011	0.001016209	0.001503908	0.003218747	0.000810686	0.000972533	0.000864937	0.001264403	0.001143518	0.008168813	0.006266729	0.001858399
P6	0.000779111	0.000799286	0.000984772	0.001093038	0.001062825	0.000948237	0.001003109	0.000873315	0.001046153	0.000987797	0.000742183	0.000991996
P7	0.000023277	0.000027794	0.000087455	0.000273277	0.000238435	0.000125751	0.000146439	0.000082860	0.000080464	0.000078730	0.000045714	0.000057270
P8	0.001004064	0.000972086	0.001116631	0.001002951	0.001090996	0.000918041	0.000862082	0.000955828	0.000861350	0.000979303	0.000829766	0.000809066
P9	0.001486029	0.001616302	0.001688208	0.001770645	0.001888818	0.001444817	0.001562876	0.001734210	0.001717142	0.001904164	0.001444961	0.001137353
Q1	0.000366672	0.000320869	0.000411299	0.000412317	0.000376182	0.000239005	0.000326422	0.000326423	0.000276004	0.000239820	0.000192925	0.000210710
Q2	0.000061095	0.000060802	0.000055569	0.000105533	0.000072255	0.000077494	0.000093748	0.000106692	0.000101990	0.000110760	0.000072484	0.000062133
Q3	0.004303928	0.004816612	0.005173519	0.005331132	0.004405113	0.003830039	0.003925319	0.004201282	0.004113330	0.005187455	0.004234870	0.004954506
Q4	0.000387657	0.000273175	0.000269695	0.000484430	0.000361408	0.000350145	0.000322137	0.000291471	0.000274416	0.000339266	0.000259072	0.000421516
Q5	0.000158813	0.000171716	0.000157739	0.000187344	0.000169647	0.000195524	0.000165049	0.000246420	0.000177752	0.000237618	0.000158436	0.000166681
Q6	0.001149443	0.000816117	0.001178929	0.001346379	0.001678309	0.001657435	0.001149910	0.001202782	0.001178728	0.001745425	0.001422050	0.001140631
Q7	0.000008633	0.000006110	0.000003832	0.000005542	0.000006134	0.000009072	0.000012542	0.000045172	0.000013052	0.000012490	0.000137873	0.000008760
Q8	0.000484873	0.000366398	0.000487921	0.000752075	0.001012129	0.001040531	0.000875526	0.000750022	0.000642048	0.000545261	0.000602065	0.000507829
Q9	0.000008667	0.000009076	0.000013531	0.000025770	0.000036796	0.000133759	0.000114170	0.000061864	0.000034153	0.000108748	0.000018380	0.000018121
R1	0.000474948	0.000278192	0.000303194	0.000344500	0.000377726	0.000372242	0.000608351	0.000317093	0.000290945	0.000357479	0.000437813	0.000394011
R2	0.000008035	0.000008401	0.000004522	0.000006250	0.000005148	0.000007190	0.000006134	0.000013227	0.000004610	0.000009152	0.000006285	0.000003215
R3	0.000002285	0.000000384	0.000002346	0.000001760	0.000001901	0.000003037	0.000001078	0.000002504	0.000002217	0.000001989	0.000003106	0.000001191
R4	0.000001328	0.000002418	0.000002850	0.000003282	0.000001017	0.000002458	0.000001101	0.000002948	0.000001017	0.000003461	0.000001479	0.000001301
R5	0.000178168	0.000126770	0.000111065	0.000144857	0.000194353	0.000217367	0.000168850	0.000148769	0.000109881	0.000116849	0.000108277	0.000169342
R6	0.000112738	0.000052019	0.000079603	0.000064561	0.000084237	0.000114451	0.000096929	0.000118233	0.000090483	0.000128965	0.000118163	0.000106051
R7	0.000071058	0.000036607	0.000058150	0.000062870	0.000063559	0.000062894	0.000039473	0.000061918	0.000064508	0.000081465	0.000060523	0.000047441
R8	0.000000656	0.000000010	0.000001421	0.000001232	0.000000347	0.000000796	0.000000042	0.000001769	0.000000302	0.000000241	0.000000665	0.000002014
R9	0.000123604	0.000063516	0.000071944	0.000070293	0.000102585	0.000130904	0.000112939	0.000150412	0.000143859	0.000140312	0.000168339	0.000180307
S1	0.000512311	0.000467038	0.000429442	0.000504889	0.000492852	0.000481151	0.000442046	0.000425039	0.000477126	0.000482787	0.000508410	0.000383136
S2	0.000048307	0.000037737	0.000034908	0.000034761	0.000057948	0.000101483	0.000043618	0.000073529	0.000043300	0.000071829	0.000039998	0.000030421

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S3	0.000000017	0.000000017	0.000000007	0.000000263	0.000000321	0.000000321	0.000000321	0.000000378	0.000000047	0.000000079	0.000004419	0.000002297
S4	0.000941928	0.001622238	0.002008634	0.003140828	0.004963861	0.005190928	0.003077251	0.000888284	0.000297178	0.000578643	0.000677294	0.000956307
S5	0.253963535	0.214911894	0.246486570	0.227351362	0.220774468	0.229457431	0.220239485	0.219628354	0.257992988	0.240147027	0.260283815	0.236933433
S6	0.062052157	0.064502799	0.056435421	0.073284268	0.070099173	0.057784799	0.071897527	0.076954820	0.069482268	0.076783810	0.069404173	0.076383792
Sum	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**